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: 6-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18037052

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-FEB-2018.

The following have access to data associated with this certificate:

DAVID BENSON	LIONNEL DJON	JILL MAXWELL
DAVE PECK	KELSEY PRIVETT	LDIM WEBTRIEVE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
LOG-21	Sample logging - ClientBarCode
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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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CERTIFICATE OF ANALYSIS TB18037052

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
W870093		0.04	62.2	16.90	5.99	6.19	2.81	3.38	1.52	<0.01	0.51	0.13	0.14	0.06	0.07	0.95
W870094		0.08	41.3	9.18	14.95	15.60	10.90	0.61	0.22	0.11	0.71	0.15	0.12	<0.01	0.03	4.16
W870095		2.29	72.6	12.85	3.29	2.11	1.53	0.73	1.74	<0.01	0.31	0.05	0.04	<0.01	0.03	3.07
W870096		2.19	75.3	13.05	2.83	2.89	1.66	0.72	1.58	<0.01	0.29	0.05	0.06	<0.01	0.03	3.32
W870097		2.34	75.1	12.75	2.91	4.34	2.14	0.63	0.80	<0.01	0.28	0.07	0.14	0.01	0.02	2.01
W870098		2.42	67.7	7.79	5.56	8.14	5.57	0.39	0.64	<0.01	0.17	0.15	0.08	<0.01	0.01	2.45
W870099		2.20	75.4	11.70	3.55	4.98	2.53	0.65	0.86	<0.01	0.24	0.09	0.08	0.01	0.02	1.57
W870100		1.69	74.6	12.05	4.21	3.36	2.18	1.03	0.96	<0.01	0.30	0.07	0.04	0.01	0.02	1.71
W870101		2.76	58.2	16.25	8.44	8.07	5.04	0.98	0.82	0.04	0.86	0.18	0.14	0.01	0.01	2.18
W870102		2.52	55.3	15.95	10.00	8.95	5.79	0.84	0.30	0.03	1.11	0.21	0.13	<0.01	0.01	1.39
W870103		2.60	46.8	15.05	14.30	13.40	7.96	0.75	0.38	0.03	1.10	0.24	0.06	0.01	0.01	1.52
W870104		2.44	48.8	16.25	12.90	11.50	7.11	0.76	0.25	0.03	1.04	0.21	0.07	0.01	0.01	0.97
W870105		2.27	48.1	14.85	13.90	11.50	8.30	0.65	0.29	0.03	1.11	0.23	0.11	0.01	0.01	0.89
W870106		2.55	48.1	15.50	12.75	12.40	7.92	0.61	0.30	0.03	0.91	0.23	0.06	0.01	0.01	1.38
W870107		2.41	49.7	14.70	13.05	11.60	7.70	0.71	0.33	0.04	0.89	0.21	0.08	0.01	0.01	1.60
W870108		2.17	50.8	16.00	11.50	10.05	5.63	0.78	0.85	0.04	0.99	0.21	0.11	0.01	0.02	2.68
W870109		2.42	51.9	15.85	11.75	11.40	5.78	0.72	0.39	0.04	1.18	0.24	0.07	0.01	0.01	1.35
W870110		2.75	49.1	15.90	11.80	13.80	6.86	0.67	0.33	0.04	1.26	0.26	0.08	0.01	0.01	1.65
W870111		2.64	50.0	16.60	13.10	11.10	6.42	0.62	0.29	0.04	0.96	0.24	0.07	0.01	0.01	1.12
W870112		2.58	51.2	16.55	13.05	9.50	5.97	0.75	0.40	0.03	1.09	0.23	0.07	0.01	0.01	1.21
W870113		0.08	46.7	13.00	20.8	6.26	6.80	2.21	0.64	0.03	1.29	0.20	0.16	0.03	0.02	0.96
W870114		2.48	53.6	14.05	11.00	10.50	5.78	0.95	0.88	0.02	0.88	0.20	0.06	0.01	0.01	1.47
W870115		2.68	45.5	13.10	11.70	15.50	8.02	0.42	0.26	0.03	0.82	0.25	0.06	0.01	0.01	2.52
W870116		3.63	48.0	15.45	11.35	12.55	7.06	0.83	0.62	0.04	0.89	0.26	0.08	0.02	0.01	2.83
W870117		1.24	46.8	14.60	12.60	10.10	6.77	2.75	1.89	0.04	1.15	0.19	0.85	0.12	0.09	1.94
W870118		2.62	47.7	13.45	11.75	10.75	7.58	2.85	2.41	0.06	1.16	0.19	0.92	0.14	0.11	1.53
W870119		1.87	69.6	12.55	7.65	2.72	1.39	1.89	2.38	0.02	0.25	0.06	0.09	0.01	0.03	2.33
W870120		2.13	66.2	10.35	13.60	2.45	1.06	1.19	2.73	0.05	0.23	0.05	0.07	<0.01	0.02	3.40
W870121		2.62	65.2	11.35	13.00	2.41	0.88	1.60	2.82	0.02	0.19	0.04	0.06	0.01	0.02	3.88
W870122		2.16	72.1	13.60	4.07	2.80	0.75	1.97	3.46	0.01	0.23	0.03	0.09	0.01	0.03	1.87
W870123		2.06	71.0	12.60	6.44	3.17	1.17	2.10	1.94	0.01	0.22	0.05	0.05	0.01	0.02	3.03
W870124		1.99	70.9	13.85	3.86	3.88	1.53	2.17	2.13	0.01	0.30	0.06	0.11	0.01	0.02	1.68
W870125		2.24	72.5	14.40	3.21	3.48	1.54	1.87	2.48	<0.01	0.31	0.06	0.09	0.01	0.05	1.75
W870126		2.10	71.8	14.05	3.13	2.72	1.41	1.79	2.20	<0.01	0.31	0.06	0.09	0.01	0.04	1.73
W870127		2.22	72.1	13.60	3.75	4.31	2.14	1.59	1.80	<0.01	0.30	0.09	0.08	0.01	0.05	1.66
W870128		2.29	72.9	13.45	3.22	3.15	1.82	1.55	1.81	<0.01	0.29	0.07	0.08	0.01	0.03	1.70
W870129		2.19	71.4	13.65	3.54	3.77	1.87	1.62	1.96	<0.01	0.30	0.07	0.09	0.01	0.05	1.72
W870130		2.07	73.5	14.20	3.21	2.32	1.43	1.65	2.24	<0.01	0.31	0.05	0.09	0.01	0.05	1.67
W870131		2.25	71.2	13.75	3.03	3.31	1.34	1.97	2.38	<0.01	0.30	0.05	0.09	0.01	0.04	1.38
W870132		2.08	71.9	14.80	2.83	3.55	1.31	2.57	2.20	<0.01	0.30	0.05	0.05	0.01	0.03	1.33

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THUNDER BAY ON P7B 2R2

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870093		100.85	0.03	0.02	619	31.4	10	0.71	4.51	2.74	0.98	17.0	4.37	<5	4.2	0.89
W870094		98.04	0.25	2.64	298	20.5	790	0.40	2.86	1.59	0.78	11.1	2.81	<5	2.0	0.54
W870095		98.35	0.31	0.04	261	55.1	20	2.11	0.87	0.39	0.67	18.0	1.54	<5	3.8	0.13
W870096		101.78	0.42	0.02	249	56.6	20	1.78	0.97	0.45	0.67	17.9	1.69	<5	3.5	0.15
W870097		101.20	0.19	0.06	164.5	79.1	20	1.04	1.61	0.67	1.26	17.3	3.04	<5	3.4	0.26
W870098		98.65	0.44	0.16	119.5	46.9	10	0.76	1.16	0.50	0.90	11.0	2.02	<5	1.9	0.17
W870099		101.68	0.12	0.06	193.0	50.2	20	1.35	1.02	0.47	0.67	15.0	1.60	<5	2.7	0.16
W870100		100.54	0.06	0.07	140.5	48.3	20	1.39	0.66	0.30	0.56	16.4	1.22	<5	3.7	0.11
W870101		101.22	0.21	0.14	107.5	18.8	290	2.29	2.65	1.68	0.72	18.4	2.41	<5	2.0	0.53
W870102		100.01	0.12	0.22	50.0	15.1	210	1.48	4.11	2.65	1.00	19.1	3.64	<5	2.1	0.84
W870103		101.61	0.35	0.39	71.9	7.7	210	1.29	3.04	1.98	0.84	17.2	2.43	<5	1.4	0.64
W870104		99.91	0.18	0.15	63.9	8.6	260	1.57	3.61	2.31	0.88	18.4	3.05	<5	1.6	0.73
W870105		99.98	0.24	0.20	54.6	11.5	210	1.79	4.33	2.83	1.02	18.0	3.63	<5	1.8	0.85
W870106		100.21	0.26	0.16	64.4	11.3	240	1.37	3.54	2.37	0.89	17.1	3.01	<5	1.4	0.73
W870107		100.63	0.21	0.11	80.7	14.3	260	1.53	3.26	2.03	0.87	15.9	2.85	<5	1.5	0.65
W870108		99.67	0.29	0.16	227	13.3	270	3.14	3.72	2.42	0.86	19.5	3.10	<5	1.9	0.75
W870109		100.69	0.16	0.23	127.5	12.7	270	1.70	4.15	2.68	0.98	19.1	3.52	<5	2.0	0.85
W870110		101.77	0.25	0.36	57.7	10.4	280	1.13	3.74	2.51	1.00	18.3	3.35	<5	1.9	0.78
W870111		100.58	0.13	0.13	114.0	9.9	300	2.27	3.78	2.42	0.85	18.9	3.15	<5	1.7	0.81
W870112		100.07	0.10	0.20	96.9	9.8	210	1.37	3.82	2.62	0.88	18.9	3.26	<5	1.9	0.81
W870113		99.10	0.07	1.72	230	28.8	270	0.95	2.89	1.46	1.16	16.7	3.10	<5	2.6	0.55
W870114		99.41	0.29	0.18	102.5	14.5	180	3.22	3.55	2.27	0.82	16.1	3.01	<5	1.8	0.76
W870115		98.20	0.57	0.36	47.8	11.2	200	1.04	3.67	2.15	0.92	15.3	3.03	<5	1.6	0.72
W870116		99.99	0.28	0.11	131.0	15.8	340	1.69	3.46	2.24	0.83	17.9	3.02	<5	2.0	0.70
W870117		99.89	0.17	0.94	800	196.0	340	1.81	7.61	3.06	4.82	22.2	14.35	<5	6.9	1.21
W870118		100.60	0.15	0.35	948	213	440	1.62	8.18	3.12	5.19	21.1	15.20	<5	7.3	1.25
W870119		100.97	0.20	2.72	315	40.4	130	3.04	1.04	0.49	0.58	16.9	1.49	<5	3.3	0.20
W870120		101.40	0.20	5.82	169.0	21.4	380	2.39	1.20	0.61	0.39	13.9	1.37	<5	2.1	0.21
W870121		101.48	0.25	5.81	196.5	22.2	120	1.60	0.79	0.41	0.35	14.0	1.09	<5	2.5	0.15
W870122		101.02	0.22	1.48	309	23.8	40	2.69	0.70	0.38	0.54	16.5	0.95	<5	3.1	0.14
W870123		101.81	0.25	2.99	144.5	21.5	90	2.36	0.59	0.32	0.40	16.6	0.81	<5	2.8	0.13
W870124		100.51	0.19	0.73	211	33.1	90	2.63	0.97	0.58	0.58	17.2	1.28	<5	3.2	0.20
W870125		101.75	0.16	0.44	452	56.6	20	2.39	1.02	0.51	0.76	18.7	1.61	<5	4.1	0.19
W870126		99.34	0.09	0.30	368	56.1	30	1.82	0.89	0.44	0.65	18.8	1.46	<5	4.1	0.17
W870127		101.48	0.10	0.46	402	51.2	20	1.91	0.86	0.43	0.68	17.8	1.40	<5	4.0	0.16
W870128		100.08	0.07	0.10	315	52.5	20	2.40	1.01	0.51	0.70	18.1	1.44	<5	3.7	0.18
W870129		100.05	0.09	0.37	474	55.3	20	1.71	0.84	0.41	0.74	17.7	1.47	<5	3.7	0.17
W870130		100.73	0.05	0.29	416	55.1	20	1.80	0.90	0.39	0.68	18.4	1.51	<5	4.1	0.17
W870131		98.85	0.10	0.36	330	42.2	30	2.42	0.88	0.40	0.67	17.9	1.27	<5	4.0	0.17
W870132		100.93	0.16	0.31	238	32.8	20	2.46	0.62	0.31	0.62	19.2	0.96	<5	3.6	0.12

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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
W870093		13.9	0.45	3.4	18.3	4.25	28.1	4.16	1	520	0.2	0.66	3.00	0.41	1.25	162
W870094		9.8	0.21	6.6	10.9	2.62	5.0	2.53	2	67.1	0.4	0.44	1.93	0.21	0.98	197
W870095		30.5	0.05	4.3	18.4	5.67	40.0	2.38	<1	54.7	0.3	0.18	5.12	0.04	0.61	37
W870096		31.0	0.05	5.2	18.7	5.87	34.5	2.60	1	55.8	0.4	0.20	5.00	0.05	0.62	36
W870097		38.9	0.07	24.1	31.0	8.81	15.9	4.60	<1	72.5	0.5	0.36	6.27	0.09	0.81	36
W870098		24.7	0.05	8.5	17.4	4.93	12.2	2.73	<1	43.6	0.2	0.24	3.35	0.07	0.76	32
W870099		27.8	0.06	4.0	17.2	5.16	16.4	2.44	<1	65.4	0.3	0.18	4.56	0.05	0.70	28
W870100		27.6	0.04	3.5	15.3	4.80	17.2	1.98	<1	67.3	0.3	0.15	3.40	0.04	0.63	37
W870101		9.3	0.21	4.2	9.0	2.25	21.8	2.19	1	88.3	0.3	0.42	0.76	0.23	0.46	267
W870102		6.5	0.39	3.7	9.6	2.05	8.2	2.71	1	73.8	0.3	0.64	0.61	0.35	0.46	336
W870103		3.0	0.31	2.6	5.6	1.18	7.0	1.89	1	87.1	0.2	0.44	0.17	0.30	0.13	342
W870104		3.2	0.36	3.0	6.6	1.32	6.9	2.14	1	111.5	0.2	0.50	0.22	0.34	0.08	348
W870105		4.3	0.40	4.3	8.6	1.71	8.9	2.60	1	97.5	0.2	0.66	0.29	0.39	0.06	345
W870106		4.3	0.32	4.5	7.5	1.58	9.2	2.39	1	92.1	0.2	0.54	0.40	0.32	0.07	305
W870107		5.8	0.28	3.2	9.8	2.06	8.0	2.53	1	132.5	0.2	0.47	0.57	0.28	0.10	288
W870108		5.8	0.36	3.7	8.0	1.77	24.7	2.28	1	112.0	0.2	0.53	0.87	0.33	0.49	326
W870109		5.3	0.40	3.6	8.4	1.82	11.4	2.43	1	117.0	0.2	0.60	0.77	0.40	0.33	385
W870110		4.2	0.36	3.4	7.7	1.57	8.7	2.33	1	83.3	0.2	0.56	0.26	0.36	0.42	401
W870111		3.9	0.37	2.8	7.1	1.47	8.8	2.21	1	112.0	0.2	0.58	0.38	0.36	0.14	340
W870112		3.8	0.38	3.1	7.4	1.49	12.2	2.17	1	107.0	0.2	0.58	0.32	0.38	0.11	341
W870113		13.0	0.22	7.8	14.6	3.57	17.5	3.36	4	285	0.5	0.47	1.73	0.22	0.53	136
W870114		6.5	0.32	3.2	8.4	1.89	20.3	2.48	1	103.5	0.2	0.55	1.32	0.32	0.51	285
W870115		4.9	0.30	2.6	7.4	1.59	7.7	2.15	1	116.5	0.1	0.51	0.45	0.29	0.50	284
W870116		6.9	0.31	3.8	9.2	2.11	19.0	2.48	1	174.5	0.2	0.51	0.87	0.32	0.64	299
W870117		79.8	0.34	15.0	106.0	25.3	36.0	20.3	2	1060	0.8	1.63	8.63	0.37	1.92	275
W870118		88.0	0.33	16.5	115.5	27.5	53.1	21.5	2	1185	0.8	1.78	10.35	0.38	2.21	250
W870119		21.8	0.08	4.8	13.8	4.21	51.3	2.06	1	96.5	0.5	0.19	3.58	0.07	0.80	43
W870120		10.5	0.09	7.6	8.9	2.41	58.3	1.82	1	72.0	1.1	0.21	2.26	0.07	0.67	63
W870121		11.2	0.05	3.3	8.7	2.43	48.7	1.51	1	81.8	0.3	0.14	2.16	0.05	0.65	35
W870122		13.1	0.05	3.5	8.4	2.48	63.8	1.37	1	117.0	0.3	0.13	1.95	0.06	0.79	31
W870123		11.7	0.06	2.8	7.5	2.22	40.4	1.23	1	92.7	0.2	0.11	1.50	0.04	1.22	40
W870124		17.9	0.08	4.6	11.5	3.43	46.9	1.83	1	99.4	0.5	0.18	2.70	0.08	0.93	45
W870125		31.4	0.07	5.0	18.9	5.75	45.7	2.82	1	100.5	0.4	0.20	5.31	0.08	0.76	33
W870126		30.8	0.05	4.1	18.7	5.56	36.8	2.66	1	94.0	0.3	0.17	5.53	0.05	0.53	36
W870127		28.5	0.05	3.8	16.8	5.15	34.9	2.48	1	85.0	0.3	0.18	4.62	0.06	0.62	34
W870128		29.0	0.06	4.4	17.1	5.35	39.4	2.48	1	86.5	0.4	0.19	4.73	0.06	0.95	33
W870129		31.4	0.05	4.1	17.9	5.51	37.4	2.52	1	87.2	0.3	0.17	4.97	0.05	0.54	33
W870130		30.6	0.05	4.3	17.9	5.60	40.3	2.55	1	86.4	0.4	0.18	5.37	0.06	0.50	34
W870131		23.0	0.06	4.1	14.3	4.30	46.2	2.34	1	109.5	0.3	0.17	3.60	0.06	0.62	36
W870132		18.3	0.03	3.6	10.8	3.33	46.2	1.55	1	119.0	0.2	0.12	2.39	0.05	0.42	33

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

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

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870093		6	24.7	2.67	153	0.7	0.04	<0.005	0.009	<0.001	0.13	<0.2	0.01	0.05	<0.5	<0.5
W870094		2	14.8	1.40	81	50.1	0.27	0.123	0.054	0.018	1.32	12.1	1.25	0.06	2.5	1.0
W870095		1	3.6	0.30	163	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870096		1	4.2	0.33	146	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870097		1	6.8	0.48	140	0.3	0.01	<0.005	0.006	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870098		18	5.4	0.40	81	0.1	0.01	<0.005	0.007	0.001	<0.05	0.2	0.02	0.02	<0.5	<0.5
W870099		1	4.3	0.31	114	0.2	<0.01	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870100		<1	3.1	0.26	157	1.3	0.01	0.005	<0.005	<0.001	0.11	<0.2	0.01	<0.02	<0.5	<0.5
W870101		2	13.3	1.47	71	0.3	0.01	<0.005	0.016	0.001	0.05	0.3	0.01	0.11	<0.5	<0.5
W870102		1	22.5	2.40	80	0.4	0.01	0.005	0.017	0.001	0.05	0.4	0.02	0.05	<0.5	<0.5
W870103		1	17.1	2.04	52	0.5	0.02	<0.005	0.012	0.002	0.06	0.7	0.04	0.05	<0.5	<0.5
W870104		<1	20.0	2.21	56	0.7	0.01	0.005	0.010	<0.001	0.05	0.4	0.02	0.03	<0.5	<0.5
W870105		1	23.8	2.57	67	1.2	0.01	<0.005	0.010	0.001	0.05	0.5	0.02	0.05	<0.5	0.5
W870106		1	19.9	2.08	51	0.5	0.01	<0.005	0.007	0.001	<0.05	0.5	0.02	0.04	<0.5	<0.5
W870107		<1	17.1	1.89	54	0.4	0.01	<0.005	0.009	<0.001	0.05	0.3	0.01	0.05	<0.5	<0.5
W870108		1	19.8	2.15	71	0.5	0.02	<0.005	0.010	0.002	0.05	0.5	0.02	0.07	<0.5	<0.5
W870109		1	22.1	2.56	75	0.7	0.01	<0.005	0.013	0.001	<0.05	0.3	0.02	0.07	<0.5	<0.5
W870110		2	19.6	2.25	69	1.1	0.02	<0.005	0.012	0.002	0.06	0.7	0.02	0.08	<0.5	<0.5
W870111		<1	21.1	2.37	63	0.6	0.01	<0.005	0.011	0.001	<0.05	0.5	<0.01	0.04	<0.5	<0.5
W870112		<1	21.7	2.45	70	0.3	0.01	<0.005	0.013	0.002	<0.05	0.3	0.02	0.04	<0.5	<0.5
W870113		3	14.3	1.30	112	3.9	0.88	0.010	0.064	0.004	0.32	5.3	0.51	0.09	1.9	0.5
W870114		1	19.6	2.10	62	0.8	0.02	0.007	0.011	0.002	0.08	0.5	0.02	0.09	<0.5	<0.5
W870115		2	19.2	2.03	57	0.9	0.02	<0.005	0.007	0.001	0.06	0.5	0.04	0.03	<0.5	<0.5
W870116		1	18.3	2.00	76	0.7	0.02	<0.005	0.010	0.001	0.05	0.2	0.01	0.03	<0.5	<0.5
W870117		1	33.1	2.05	289	2.3	0.14	<0.005	0.019	<0.001	0.06	0.4	0.06	0.11	<0.5	<0.5
W870118		<1	34.4	2.18	309	0.7	0.07	0.009	0.018	<0.001	<0.05	0.3	<0.01	0.16	<0.5	<0.5
W870119		1	5.4	0.47	134	0.8	0.17	<0.005	0.010	0.001	0.08	0.8	0.05	0.17	0.5	0.5
W870120		2	5.7	0.52	79	1.6	0.29	0.009	0.009	0.002	0.08	1.9	0.13	0.11	1.1	<0.5
W870121		1	4.0	0.38	91	0.6	0.74	<0.005	0.005	0.001	0.16	1.7	0.12	0.08	0.6	<0.5
W870122		1	3.9	0.31	113	0.7	0.23	<0.005	<0.005	<0.001	0.14	0.6	0.07	0.12	<0.5	<0.5
W870123		1	3.5	0.38	103	0.8	0.61	<0.005	0.005	0.001	0.24	0.6	0.09	0.10	0.7	<0.5
W870124		1	5.8	0.47	115	0.5	0.09	<0.005	0.005	0.001	0.06	0.4	0.03	0.17	<0.5	<0.5
W870125		1	5.9	0.45	164	0.4	0.04	0.005	0.007	<0.001	0.06	0.3	0.06	0.11	<0.5	<0.5
W870126		1	4.7	0.34	162	0.2	0.03	0.005	0.005	<0.001	0.05	<0.2	0.04	0.09	<0.5	<0.5
W870127		1	4.8	0.35	160	0.4	0.02	0.010	0.006	0.001	0.05	0.2	0.05	0.09	<0.5	<0.5
W870128		3	4.9	0.43	138	0.3	0.01	<0.005	0.006	<0.001	0.05	0.2	0.01	0.09	<0.5	<0.5
W870129		1	4.5	0.31	148	0.2	0.02	<0.005	0.005	<0.001	<0.05	0.2	0.04	0.08	<0.5	<0.5
W870130		1	4.3	0.34	157	0.1	0.02	<0.005	<0.005	<0.001	<0.05	0.3	0.03	0.08	<0.5	<0.5
W870131		1	4.4	0.37	151	0.5	0.04	<0.005	<0.005	<0.001	<0.05	0.3	0.05	0.16	<0.5	<0.5
W870132		<1	3.2	0.26	145	0.3	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	0.22	<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: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870093		13	91	10	3	8	5	16	62	0.001	<0.005	0.001	0.026
W870094		149	5380	40	3	2100	8	24	74	0.112	0.705	0.361	10.85
W870095		5	10	40	2	15	8	3	30	<0.001	<0.005	<0.001	0.018
W870096		6	3	40	1	14	<2	3	24	<0.001	<0.005	<0.001	0.009
W870097		5	7	40	1	16	<2	3	34	<0.001	<0.005	<0.001	0.033
W870098		14	34	10	3	45	3	4	117	<0.001	<0.005	<0.001	0.141
W870099		7	9	20	1	19	<2	3	48	<0.001	<0.005	<0.001	0.037
W870100		8	15	40	<1	17	<2	3	29	<0.001	<0.005	<0.001	0.030
W870101		29	76	30	1	102	5	31	72	<0.001	<0.005	<0.001	0.185
W870102		48	173	20	1	118	4	42	69	<0.001	<0.005	<0.001	0.372
W870103		48	204	30	1	87	4	43	111	0.001	<0.005	0.001	0.490
W870104		49	105	20	<1	108	3	44	104	<0.001	<0.005	<0.001	0.267
W870105		50	162	10	<1	104	7	39	113	<0.001	<0.005	<0.001	0.350
W870106		49	123	10	1	116	2	43	106	<0.001	<0.005	<0.001	0.278
W870107		46	95	10	1	120	3	40	88	<0.001	<0.005	<0.001	0.222
W870108		42	73	30	<1	97	9	40	86	<0.001	<0.005	<0.001	0.223
W870109		51	121	20	1	107	8	44	68	<0.001	<0.005	<0.001	0.302
W870110		70	229	20	<1	166	3	45	83	<0.001	<0.005	0.001	0.516
W870111		50	98	20	1	114	5	43	91	<0.001	<0.005	<0.001	0.269
W870112		46	129	20	1	86	5	42	90	<0.001	<0.005	<0.001	0.312
W870113		113	4430	20	5	4290	28	12	102	0.070	0.289	0.590	4.37
W870114		32	87	20	<1	74	4	34	82	<0.001	0.005	<0.001	0.281
W870115		35	159	10	1	73	4	36	93	<0.001	<0.005	<0.001	0.423
W870116		29	74	30	1	81	5	34	104	<0.001	<0.005	<0.001	0.142
W870117		58	208	30	<1	96	9	23	123	0.002	<0.005	0.002	0.429
W870118		41	76	50	1	103	12	22	131	<0.001	<0.005	0.003	0.119
W870119		19	53	30	2	75	10	6	117	0.003	<0.005	0.001	0.821
W870120		17	195	20	2	160	13	7	121	0.004	<0.005	0.001	1.550
W870121		78	82	20	2	117	9	4	43	<0.001	<0.005	0.001	1.465
W870122		23	34	20	1	24	13	4	45	<0.001	<0.005	0.001	0.388
W870123		76	29	30	2	28	11	5	50	0.008	<0.005	0.001	0.730
W870124		9	21	30	2	18	13	6	70	<0.001	<0.005	0.001	0.230
W870125		6	15	30	1	9	4	4	38	<0.001	<0.005	<0.001	0.130
W870126		5	10	30	1	7	8	3	36	<0.001	<0.005	<0.001	0.051
W870127		5	13	30	1	10	11	3	50	<0.001	<0.005	<0.001	0.111
W870128		6	6	30	1	11	7	4	35	<0.001	<0.005	<0.001	0.027
W870129		7	22	30	<1	8	6	3	40	<0.001	<0.005	<0.001	0.091
W870130		5	13	30	1	10	<2	3	33	<0.001	<0.005	<0.001	0.076
W870131		7	18	30	2	12	7	5	62	<0.001	<0.005	<0.001	0.111
W870132		5	12	30	1	7	7	5	60	<0.001	<0.005	<0.001	0.068

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

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870133		0.04	61.1	16.55	6.03	6.23	2.78	3.31	1.49	<0.01	0.50	0.12	0.14	0.05	0.07	0.93
W870134		2.34	70.0	12.60	8.33	2.59	0.97	2.04	2.59	0.01	0.24	0.04	0.07	0.01	0.03	2.21
W870135		2.28	67.0	12.00	6.58	6.67	2.56	1.46	1.60	0.01	0.50	0.12	0.08	0.01	0.03	1.97
W870136		2.40	70.2	14.05	4.61	3.74	2.08	1.63	1.40	<0.01	0.33	0.08	0.07	0.01	0.04	1.93
W870137		2.41	70.9	11.95	5.12	4.38	1.45	1.93	2.68	<0.01	0.23	0.07	0.05	0.01	0.04	1.59
W870138		2.41	68.2	12.40	7.17	3.90	1.29	2.08	1.98	0.01	0.24	0.05	0.04	0.01	0.02	1.97
W870139		2.28	72.6	14.50	3.88	3.12	1.46	2.25	2.07	<0.01	0.31	0.05	0.08	0.02	0.04	1.61
W870140		2.22	67.1	15.15	6.54	4.02	2.75	1.72	1.26	0.01	0.63	0.12	0.08	0.01	0.03	1.40
W870141		2.28	61.2	14.25	9.48	3.90	2.48	2.08	1.99	0.02	0.69	0.10	0.15	0.01	0.03	1.77
W870142		2.28	72.4	14.10	3.61	3.11	1.62	2.20	1.91	<0.01	0.32	0.06	0.07	0.01	0.04	1.54
W870143		2.41	72.1	11.30	4.99	4.23	2.23	1.55	0.97	0.01	0.28	0.08	0.06	<0.01	0.02	1.82
W870144		2.39	68.3	10.95	9.27	3.83	1.55	1.78	1.84	0.02	0.32	0.06	0.08	0.01	0.03	2.30
W870145		2.24	68.9	14.55	3.50	3.56	2.06	1.94	2.14	0.01	0.37	0.06	0.11	0.01	0.03	1.56
W870146		2.34	73.4	14.00	3.16	2.88	1.47	1.82	2.51	<0.01	0.30	0.05	0.09	0.01	0.04	1.55
W870147		2.48	73.3	14.95	3.22	2.62	1.46	2.00	2.11	<0.01	0.33	0.05	0.10	0.01	0.05	1.54
W870148		2.25	74.2	14.05	2.54	3.15	1.08	2.41	1.77	<0.01	0.22	0.04	0.05	0.01	0.03	1.28
W870149		2.30	73.7	15.25	2.07	3.61	0.68	3.24	2.06	<0.01	0.24	0.03	0.06	0.01	0.02	0.67
W870150		3.37	66.4	13.55	4.06	8.86	2.19	2.08	0.89	0.01	0.30	0.10	0.06	0.01	0.01	1.55
W870151		1.29	49.7	12.90	8.40	17.35	5.63	0.39	0.20	0.01	0.46	0.21	0.05	0.01	<0.01	3.63
W870152		2.63	56.0	12.75	8.78	13.40	5.01	0.68	0.31	0.02	0.59	0.17	0.07	0.01	0.01	2.53
W870153		0.08	41.3	9.18	15.40	16.00	11.05	0.61	0.22	0.11	0.71	0.15	0.13	<0.01	0.03	4.13
W870154		2.58	52.1	13.45	10.65	14.10	5.52	1.36	0.55	0.03	0.76	0.23	0.05	0.01	0.01	2.08
W870155		2.58	54.2	12.45	10.65	12.10	4.81	1.28	0.75	0.03	0.69	0.22	0.03	0.01	<0.01	2.09
W870156		2.41	46.9	13.85	13.40	13.25	2.94	1.48	1.29	0.03	0.84	0.25	0.05	0.01	0.01	3.92
W870157		2.74	51.0	13.55	12.70	14.35	3.26	0.84	0.56	0.03	0.77	0.27	0.08	<0.01	0.01	2.59
W870158		2.54	47.1	14.85	14.20	14.40	4.56	0.67	0.40	0.04	0.96	0.24	0.08	0.01	0.01	1.84
W870159		2.30	48.2	14.35	14.40	14.90	5.01	0.62	0.49	0.04	0.95	0.23	0.07	0.01	0.01	1.54
W870160		2.27	51.8	14.30	12.35	12.20	4.17	0.90	0.86	0.03	0.86	0.21	0.07	0.01	0.01	2.60
W870161		2.44	49.5	14.45	13.05	12.35	5.29	0.73	0.72	0.03	0.93	0.23	0.07	0.01	0.01	3.68
W870162		2.37	47.3	15.70	11.45	15.00	4.09	0.49	0.51	0.04	0.98	0.21	0.08	0.01	0.01	3.80
W870163		2.45	49.0	14.80	13.30	16.15	4.10	0.48	0.21	0.04	0.96	0.25	0.06	0.01	0.01	2.16
W870164		2.50	49.5	14.15	12.90	15.95	3.98	0.45	0.18	0.08	0.84	0.25	0.07	0.01	<0.01	1.68
W870165		2.48	48.3	14.30	14.00	17.30	3.94	0.23	0.07	0.08	0.90	0.24	0.07	0.01	<0.01	1.93
W870166		2.50	48.5	14.90	14.25	16.70	3.26	0.33	0.15	0.04	0.97	0.22	0.08	0.01	<0.01	2.33
W870167		2.50	49.7	12.90	13.55	17.40	3.89	0.44	0.16	0.04	0.81	0.24	0.05	0.01	<0.01	2.20
W870168		2.51	46.3	15.15	13.05	14.75	4.78	0.68	0.56	0.03	0.87	0.22	0.06	0.01	0.01	2.20
W870169		2.63	47.9	12.95	14.25	14.90	5.88	0.76	0.51	0.02	0.92	0.26	0.07	0.01	0.01	2.09
W870170		0.08	47.5	12.90	20.9	6.36	6.78	2.35	0.65	0.03	1.30	0.20	0.15	0.03	0.03	1.06

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

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870133		99.30	0.01	0.01	567	29.0	20	0.64	3.75	2.26	0.84	15.2	3.32	<5	3.7	0.80
W870134		101.73	0.14	3.07	285	36.9	90	2.36	0.78	0.42	0.50	16.2	1.19	<5	3.6	0.16
W870135		100.59	0.12	1.72	287	41.4	50	1.36	1.31	0.67	0.84	16.6	1.67	<5	3.5	0.25
W870136		100.17	0.14	0.45	375	51.4	20	1.14	0.85	0.37	0.69	17.8	1.37	<5	3.6	0.15
W870137		100.40	0.16	1.71	350	39.6	30	1.94	0.76	0.37	0.69	15.9	1.37	<5	4.5	0.15
W870138		99.36	0.05	2.68	185.0	35.8	100	1.98	0.98	0.50	0.55	16.7	1.39	<5	4.6	0.19
W870139		101.99	0.09	0.62	386	55.8	30	2.69	0.87	0.30	0.78	19.2	1.52	<5	4.5	0.14
W870140		100.82	0.04	0.34	255	42.7	110	4.00	1.61	1.01	0.81	20.0	1.83	<5	3.3	0.35
W870141		98.15	0.10	2.49	285	39.8	150	2.95	1.76	0.98	0.72	19.4	2.21	<5	3.6	0.37
W870142		100.99	0.12	0.66	317	60.1	20	2.76	1.11	0.49	0.72	18.3	1.63	<5	3.9	0.19
W870143		99.64	0.13	1.00	179.0	43.9	30	1.84	1.06	0.48	0.75	15.1	1.52	<5	3.0	0.21
W870144		100.34	0.10	3.24	237	36.7	110	1.50	1.33	0.78	0.68	14.5	1.84	<5	3.1	0.26
W870145		98.80	0.09	0.35	324	55.0	50	2.15	1.40	0.64	0.86	19.2	2.31	<5	4.0	0.26
W870146		101.28	0.09	0.22	347	56.8	20	2.43	1.04	0.47	0.65	17.8	1.42	<5	3.5	0.17
W870147		101.74	0.04	0.12	446	61.1	20	1.77	0.99	0.37	0.67	19.0	1.62	<5	3.9	0.17
W870148		100.83	0.11	0.12	283	32.4	20	2.11	0.77	0.37	0.54	17.7	1.22	<5	3.9	0.14
W870149		101.64	0.13	0.01	136.0	20.5	20	2.57	0.63	0.30	0.43	18.0	1.00	<5	3.1	0.12
W870150		100.07	0.20	0.03	99.3	17.7	50	1.16	1.23	0.68	0.55	16.1	1.39	<5	2.7	0.22
W870151		98.94	0.51	0.03	35.3	20.9	100	0.34	2.78	1.76	0.80	17.8	2.47	<5	2.0	0.60
W870152		100.33	0.36	0.06	56.7	16.8	130	0.93	2.39	1.42	0.69	14.9	2.13	<5	2.0	0.51
W870153		99.02	0.25	2.68	283	19.9	750	0.37	2.44	1.32	0.73	10.2	2.34	<5	1.9	0.50
W870154		100.90	0.38	0.17	56.2	8.3	200	2.13	2.61	1.63	0.70	14.4	2.19	<5	1.6	0.58
W870155		99.31	0.35	0.26	48.7	9.8	200	3.93	2.61	1.66	0.62	14.1	2.08	<5	1.5	0.61
W870156		98.22	1.20	0.73	59.9	9.2	240	4.54	3.19	2.12	0.73	14.7	2.72	<5	1.3	0.72
W870157		100.01	0.72	0.80	60.5	11.0	250	1.69	2.77	1.81	0.69	15.9	2.62	<5	1.5	0.61
W870158		99.36	0.20	0.19	55.1	9.2	320	0.56	3.61	2.36	0.82	17.5	3.20	<5	1.5	0.82
W870159		100.82	0.18	0.16	62.7	8.8	310	1.25	3.60	2.26	0.83	16.9	2.95	<5	1.5	0.77
W870160		100.37	0.35	0.11	109.0	11.1	240	1.61	3.14	2.02	0.66	15.6	2.81	<5	2.1	0.72
W870161		101.05	0.52	0.03	120.0	11.3	200	1.32	3.19	2.06	0.77	16.4	2.70	<5	1.7	0.73
W870162		99.67	0.55	0.04	88.2	12.5	280	0.77	3.13	2.11	0.80	18.0	2.92	<5	1.7	0.68
W870163		101.53	0.25	0.06	40.3	11.5	300	0.59	3.46	2.20	0.72	17.2	2.98	<5	1.6	0.78
W870164		100.04	0.17	0.13	36.2	11.4	570	0.55	3.35	2.10	0.73	16.3	2.98	<5	1.9	0.77
W870165		101.37	0.25	0.16	8.1	9.3	600	0.12	3.62	2.30	0.79	16.9	3.09	<5	1.6	0.78
W870166		101.74	0.43	0.28	23.7	9.8	320	0.18	3.65	2.24	0.82	17.3	2.95	<5	1.7	0.79
W870167		101.39	0.54	0.56	23.0	9.7	270	0.25	3.14	2.00	0.78	16.1	2.74	<5	1.4	0.74
W870168		98.67	0.31	0.24	70.2	9.7	210	1.29	3.32	2.13	0.81	17.0	2.92	<5	1.8	0.75
W870169		100.53	0.26	0.08	67.6	9.4	180	0.75	3.52	2.20	0.85	16.2	3.06	<5	1.5	0.77
W870170		100.24	0.11	1.76	211	26.6	250	0.94	2.61	1.37	1.11	15.9	2.78	<5	2.6	0.53

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

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870133		13.1	0.41	3.2	16.4	3.86	25.5	3.81	1	462	0.2	0.55	2.86	0.38	1.21	149
W870134		19.7	0.05	6.0	12.9	3.84	53.5	1.90	1	103.5	0.7	0.16	4.16	0.06	1.02	33
W870135		22.4	0.09	4.9	14.8	4.40	29.8	2.42	1	118.5	0.4	0.23	3.73	0.08	0.52	98
W870136		28.8	0.04	3.6	17.2	5.15	24.3	2.58	<1	123.0	0.3	0.16	4.43	0.05	0.40	47
W870137		20.7	0.06	4.3	15.3	4.29	59.0	2.57	1	146.0	0.3	0.17	3.64	0.06	1.26	30
W870138		18.6	0.09	4.7	13.7	3.86	53.0	2.27	1	96.1	0.4	0.18	3.28	0.07	0.87	46
W870139		30.6	0.04	4.3	19.4	5.87	39.6	2.62	1	115.5	0.3	0.18	5.64	0.05	0.48	35
W870140		23.4	0.16	4.1	15.1	4.44	35.9	2.50	1	90.2	0.3	0.26	3.57	0.16	1.20	157
W870141		20.8	0.15	6.9	15.6	4.31	52.4	2.96	4	98.8	0.8	0.31	3.56	0.15	1.25	176
W870142		33.5	0.07	4.6	20.5	6.07	47.5	3.01	1	88.9	0.5	0.20	5.80	0.07	0.70	35
W870143		24.3	0.08	3.6	15.3	4.50	30.0	2.44	1	73.9	0.3	0.21	3.99	0.07	0.67	40
W870144		18.2	0.11	6.5	15.9	4.24	43.8	2.96	1	109.0	0.6	0.25	3.66	0.10	1.06	58
W870145		28.8	0.10	5.2	20.4	5.92	44.6	3.23	2	98.0	0.5	0.28	5.53	0.10	1.24	57
W870146		31.2	0.06	4.0	18.6	5.70	50.3	2.78	1	98.7	0.3	0.20	5.22	0.07	0.75	32
W870147		33.3	0.06	4.3	20.1	6.19	40.3	2.96	1	87.9	0.3	0.19	6.01	0.06	0.57	35
W870148		17.3	0.04	3.8	12.2	3.47	38.4	2.07	1	118.0	0.3	0.15	2.61	0.05	0.87	22
W870149		11.0	0.04	2.4	7.8	2.19	42.4	1.54	1	123.0	0.2	0.13	1.83	0.04	0.66	22
W870150		9.2	0.08	2.2	7.5	1.99	19.2	1.70	1	98.4	0.2	0.20	1.24	0.08	0.42	57
W870151		10.7	0.24	2.5	9.6	2.49	6.7	2.40	1	95.8	0.2	0.43	1.58	0.25	0.50	172
W870152		8.3	0.21	2.5	8.3	2.04	9.6	2.02	2	111.0	0.2	0.35	1.32	0.21	0.37	174
W870153		9.7	0.22	5.9	10.6	2.44	4.6	2.67	2	63.5	0.4	0.39	1.92	0.22	0.98	175
W870154		3.6	0.26	2.4	5.5	1.18	16.6	1.83	1	88.5	0.2	0.37	0.56	0.26	0.21	256
W870155		4.3	0.28	2.3	5.6	1.25	27.0	1.68	1	75.2	0.2	0.37	1.14	0.26	0.53	243
W870156		3.9	0.34	2.2	6.2	1.31	31.3	1.89	1	72.8	0.1	0.50	0.88	0.32	0.18	285
W870157		4.8	0.28	2.7	6.9	1.47	16.1	1.85	1	85.0	0.2	0.43	0.99	0.27	0.31	270
W870158		3.5	0.37	2.6	7.2	1.40	11.4	2.31	1	94.3	0.2	0.56	0.27	0.34	0.08	344
W870159		3.4	0.36	2.6	6.8	1.31	15.3	2.14	1	102.5	0.2	0.54	0.31	0.33	0.08	336
W870160		4.7	0.33	3.0	7.1	1.54	22.7	1.96	1	90.3	0.2	0.48	1.47	0.31	0.34	283
W870161		4.7	0.32	3.1	7.4	1.57	22.5	2.07	1	81.1	0.2	0.49	0.71	0.31	0.18	296
W870162		5.4	0.32	3.2	7.7	1.73	17.5	2.28	1	98.8	0.2	0.50	0.66	0.29	0.28	331
W870163		4.8	0.35	3.0	7.6	1.62	7.7	2.26	1	96.2	0.2	0.55	0.86	0.33	0.20	334
W870164		4.8	0.34	2.9	7.6	1.63	6.3	2.15	1	101.0	0.2	0.50	0.76	0.30	0.24	296
W870165		3.7	0.36	2.6	6.9	1.39	1.5	2.15	1	95.3	0.2	0.53	0.30	0.33	0.07	331
W870166		3.9	0.37	2.9	7.1	1.42	4.0	2.26	1	100.5	0.2	0.53	0.34	0.35	0.10	337
W870167		4.0	0.32	2.4	6.5	1.37	4.3	2.02	1	94.3	0.2	0.50	0.37	0.31	0.12	289
W870168		3.7	0.33	2.9	7.0	1.42	18.4	2.22	1	106.5	0.2	0.53	0.23	0.32	0.07	304
W870169		3.7	0.34	2.9	7.2	1.41	15.8	2.24	<1	81.4	0.2	0.54	0.34	0.32	0.08	304
W870170		12.1	0.19	7.3	13.5	3.27	17.0	3.05	4	269	0.5	0.45	1.65	0.20	0.51	132

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870133		5	21.9	2.43	134	0.7	0.05	<0.005	0.007	<0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
W870134		1	4.1	0.43	133	0.5	0.15	<0.005	0.006	<0.001	<0.05	1.1	0.11	0.18	0.7	<0.5
W870135		3	6.7	0.56	133	0.8	0.14	0.007	0.007	0.001	0.08	1.3	0.20	0.12	0.7	<0.5
W870136		1	4.2	0.30	153	0.3	0.03	<0.005	0.005	<0.001	<0.05	0.3	0.04	0.03	<0.5	<0.5
W870137		1	4.0	0.39	158	0.8	0.15	<0.005	0.011	<0.001	0.06	0.8	0.19	0.13	0.6	0.5
W870138		1	5.2	0.52	166	0.8	0.23	<0.005	0.019	0.001	0.08	1.1	0.30	0.13	1.2	<0.5
W870139		1	3.8	0.30	181	0.4	0.06	<0.005	0.009	0.001	0.08	0.2	0.08	0.12	<0.5	<0.5
W870140		1	9.4	1.12	125	0.6	0.02	0.008	0.015	0.002	0.09	0.3	0.03	0.18	<0.5	0.5
W870141		2	9.3	0.91	135	0.5	0.11	<0.005	0.022	<0.001	0.05	0.6	0.11	0.27	0.6	<0.5
W870142		2	5.5	0.47	157	0.5	0.06	0.006	0.008	<0.001	0.05	0.2	0.02	0.22	<0.5	<0.5
W870143		2	5.5	0.43	121	0.3	0.11	<0.005	0.010	0.002	0.05	0.7	0.11	0.10	<0.5	<0.5
W870144		2	7.0	0.65	112	0.4	0.29	<0.005	0.028	0.006	0.08	2.5	0.37	0.12	1.4	0.9
W870145		2	7.3	0.58	154	0.3	0.05	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.10	<0.5	<0.5
W870146		1	5.1	0.41	142	0.6	0.02	0.006	0.007	<0.001	0.06	<0.2	0.02	0.14	<0.5	<0.5
W870147		1	4.8	0.35	153	0.3	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.10	<0.5	<0.5
W870148		1	3.9	0.37	135	0.5	0.04	0.008	<0.005	<0.001	0.05	<0.2	0.01	0.10	<0.5	<0.5
W870149		2	3.2	0.26	110	0.6	0.11	0.007	0.009	<0.001	0.09	<0.2	0.01	0.13	<0.5	<0.5
W870150		1	6.1	0.55	99	0.2	0.06	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W870151		1	15.8	1.51	71	0.5	0.04	0.007	0.014	<0.001	0.07	<0.2	<0.01	0.04	<0.5	1.1
W870152		1	14.0	1.33	72	0.3	0.02	0.009	0.007	<0.001	<0.05	0.3	0.01	0.02	<0.5	0.5
W870153		1	13.9	1.34	74	43.7	0.32	0.128	0.055	0.014	1.41	12.0	1.43	0.06	2.6	1.5
W870154		1	15.1	1.62	50	0.3	0.04	<0.005	0.009	<0.001	<0.05	0.3	0.03	0.06	<0.5	0.7
W870155		1	15.7	1.78	50	0.6	0.07	0.005	0.008	<0.001	0.05	0.4	0.03	0.11	<0.5	1.0
W870156		1	18.9	2.08	43	0.3	0.10	<0.005	0.015	0.001	<0.05	0.8	0.07	0.18	<0.5	0.7
W870157		1	16.5	1.85	55	0.5	0.09	0.005	0.011	0.002	0.05	0.9	0.11	0.06	<0.5	0.6
W870158		1	21.1	2.31	57	0.3	0.01	<0.005	0.008	<0.001	<0.05	0.3	0.04	0.03	<0.5	1.1
W870159		<1	20.9	2.22	53	0.5	0.01	0.005	0.007	0.002	<0.05	0.3	0.05	0.06	<0.5	0.9
W870160		1	19.2	2.04	72	1.7	0.02	0.010	0.009	0.001	0.06	<0.2	0.03	0.04	<0.5	1.0
W870161		1	18.8	2.01	63	6.9	0.02	0.009	0.009	<0.001	<0.05	0.3	0.02	0.03	<0.5	0.7
W870162		1	18.1	2.06	62	5.2	0.03	0.007	0.010	<0.001	<0.05	<0.2	0.02	0.04	<0.5	0.5
W870163		1	20.1	2.14	57	0.8	0.02	0.007	0.009	0.001	<0.05	0.3	0.03	0.02	<0.5	1.0
W870164		1	19.4	2.14	67	0.6	0.02	0.006	0.010	0.002	<0.05	0.3	0.06	0.05	<0.5	0.8
W870165		1	20.9	2.26	56	0.5	0.01	0.006	0.009	<0.001	<0.05	0.6	0.04	0.03	<0.5	1.0
W870166		1	20.6	2.28	61	0.5	0.02	0.009	0.010	0.001	<0.05	0.4	0.05	0.03	<0.5	1.0
W870167		1	18.7	2.04	50	1.6	0.10	0.005	0.007	0.001	<0.05	0.9	0.17	0.05	<0.5	1.1
W870168		1	20.0	2.08	63	0.8	0.03	0.006	0.009	0.001	<0.05	0.5	0.07	0.08	<0.5	0.8
W870169		1	20.5	2.17	53	0.7	0.02	<0.005	0.011	0.001	<0.05	0.4	0.02	0.04	<0.5	0.9
W870170		3	13.6	1.29	102	4.7	0.91	0.018	0.070	0.006	0.36	5.6	0.69	0.10	1.9	1.5

***** 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: 6-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037052

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
W870133		15	96	10	2	7	7	17	65	0.007	<0.005	<0.001	0.026
W870134		11	83	30	1	79	11	4	74	<0.001	<0.005	<0.001	0.819
W870135		18	71	20	1	38	12	6	133	0.002	<0.005	0.001	0.838
W870136		12	35	30	1	13	6	4	47	<0.001	<0.005	<0.001	0.234
W870137		16	41	20	1	30	31	4	96	0.002	<0.005	0.001	0.816
W870138		21	77	20	2	68	27	6	100	0.004	<0.005	0.001	1.345
W870139		9	23	40	1	15	16	3	64	0.001	<0.005	<0.001	0.240
W870140		30	58	70	1	48	6	17	73	<0.001	<0.005	0.001	0.236
W870141		66	63	50	1	96	16	19	89	0.001	<0.005	<0.001	0.694
W870142		7	30	50	1	9	12	3	56	<0.001	<0.005	<0.001	0.119
W870143		15	38	40	1	27	7	4	87	0.001	<0.005	<0.001	0.585
W870144		29	84	20	2	93	18	8	213	0.005	<0.005	<0.001	2.24
W870145		10	57	30	1	17	4	7	44	<0.001	<0.005	<0.001	0.089
W870146		6	27	30	2	7	3	4	44	<0.001	<0.005	<0.001	0.070
W870147		6	11	30	<1	9	3	3	33	<0.001	<0.005	<0.001	0.029
W870148		5	17	20	1	6	8	3	53	<0.001	<0.005	<0.001	0.045
W870149		5	7	20	1	5	5	3	42	<0.001	<0.005	<0.001	0.024
W870150		10	35	20	1	13	5	9	58	<0.001	<0.005	<0.001	0.040
W870151		26	35	20	1	42	4	19	295	<0.001	<0.005	<0.001	0.049
W870152		29	53	20	<1	55	6	21	75	<0.001	<0.005	<0.001	0.146
W870153		155	5680	40	2	2200	4	25	76	0.089	0.728	0.362	11.15
W870154		36	85	20	<1	75	5	32	90	0.001	<0.005	0.003	0.272
W870155		41	63	20	<1	99	<2	33	90	<0.001	<0.005	0.004	0.328
W870156		49	122	20	1	102	6	42	93	<0.001	<0.005	0.004	0.570
W870157		49	286	20	<1	94	3	35	98	<0.001	<0.005	0.001	0.702
W870158		54	203	20	<1	104	3	45	110	0.002	<0.005	0.001	0.332
W870159		53	198	20	<1	97	4	43	113	0.001	<0.005	0.001	0.284
W870160		45	135	30	<1	82	4	36	124	0.001	<0.005	0.003	0.160
W870161		46	81	30	<1	89	7	36	104	0.001	0.007	0.007	0.084
W870162		37	98	20	1	81	2	43	72	0.001	0.005	0.004	0.096
W870163		48	118	20	<1	98	5	43	110	0.001	<0.005	<0.001	0.116
W870164		56	165	20	<1	180	4	39	120	0.002	<0.005	0.001	0.305
W870165		54	185	20	<1	167	4	43	155	0.004	<0.005	0.002	0.303
W870166		55	204	20	<1	103	5	44	99	0.004	<0.005	<0.001	0.431
W870167		63	383	20	<1	169	7	35	99	0.004	<0.005	0.016	0.929
W870168		52	248	20	<1	143	4	35	105	0.010	0.009	0.026	0.491
W870169		50	110	20	<1	74	5	36	142	0.001	0.007	0.007	0.214
W870170		112	4470	20	4	4270	28	12	102	0.073	0.288	0.605	4.75

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

Finalized Date: 6-MAR-2018
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CERTIFICATE OF ANALYSIS TB18037052

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		