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: 30-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18054022

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-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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CERTIFICATE OF ANALYSIS TB18054022

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
W871025		0.08	62.3	16.95	5.95	6.19	2.88	3.47	1.52	<0.01	0.50	0.13	0.15	0.05	0.07	0.96
W871026		0.08	41.4	9.12	14.90	15.60	11.30	0.65	0.26	0.11	0.69	0.15	0.14	<0.01	0.03	4.27
W871027		2.27	49.2	15.60	14.45	10.15	7.70	2.33	0.32	0.01	1.11	0.19	0.12	0.02	0.01	-0.29
W871028		2.35	49.6	15.75	14.70	10.25	7.67	2.34	0.37	0.01	1.15	0.20	0.12	0.02	0.01	-0.23
W871029		2.45	49.0	15.25	14.70	10.05	7.31	2.33	0.37	0.01	1.16	0.20	0.12	0.02	0.01	-0.36
W871030		2.25	49.0	15.10	14.60	10.15	6.97	2.33	0.37	0.01	1.21	0.20	0.13	0.02	0.01	-0.14
W871031		2.50	48.5	14.75	14.80	9.72	7.64	2.29	0.48	0.01	1.17	0.20	0.12	0.02	0.02	-0.01
W871032		2.37	49.8	14.10	15.45	10.05	6.53	2.58	0.49	0.01	1.38	0.21	0.14	0.02	0.02	0.00
W871033		2.18	50.4	11.95	11.70	9.09	12.60	1.65	0.90	0.17	0.37	0.23	0.05	0.03	0.03	1.44
W871034		2.33	49.7	11.25	10.95	8.69	12.75	2.05	0.79	0.18	0.31	0.17	0.03	0.02	0.02	2.01
W871035		1.93	50.2	11.80	11.05	8.85	13.35	2.04	0.87	0.18	0.32	0.20	0.04	0.02	0.02	1.71
W871036		2.13	50.6	12.75	10.75	9.34	11.95	2.13	0.71	0.16	0.30	0.18	0.03	0.03	0.02	1.55
W871037		2.37	49.6	11.45	10.30	9.42	12.55	2.32	0.58	0.18	0.33	0.18	0.03	0.02	0.02	2.16
W871038		2.17	51.0	11.75	10.85	8.95	11.85	2.08	0.66	0.17	0.33	0.18	0.04	0.03	0.02	1.54
W871039		2.07	50.3	11.10	11.30	8.75	12.20	2.15	0.65	0.17	0.40	0.20	0.06	0.02	0.02	1.56
W871040		0.08	46.9	12.80	20.8	6.27	6.72	2.16	0.65	0.03	1.22	0.19	0.15	0.03	0.02	1.17
W871041		2.86	50.9	10.95	12.15	9.27	12.55	1.82	0.63	0.18	0.39	0.20	0.03	0.03	0.02	1.50
W871042		2.40	50.7	11.65	11.25	9.36	13.30	2.06	0.53	0.19	0.34	0.20	0.05	0.03	0.02	1.31
W871043		2.37	49.4	10.80	12.05	8.69	13.30	1.89	0.69	0.18	0.31	0.19	0.03	0.02	0.02	2.13
W871044		2.34	49.4	10.70	11.55	9.00	13.00	1.88	0.58	0.18	0.32	0.18	0.04	0.02	0.02	1.90
W871045		2.52	50.2	10.00	11.90	9.40	13.10	1.87	0.59	0.19	0.32	0.20	0.03	0.02	0.02	1.94
W871046		2.53	50.4	10.30	12.55	9.02	13.40	1.55	0.70	0.20	0.33	0.20	0.04	0.02	0.02	1.81
W871047		2.51	50.1	13.30	9.97	9.16	11.50	2.46	0.67	0.15	0.34	0.18	0.04	0.03	0.02	1.76
W871048		2.36	51.1	15.30	8.96	9.77	9.35	2.63	0.72	0.10	0.32	0.16	0.06	0.04	0.03	1.85
W871049		2.46	50.9	15.35	9.00	9.75	9.42	2.40	0.70	0.10	0.31	0.16	0.06	0.04	0.02	1.58
W871050		2.62	51.1	15.70	8.90	10.10	9.20	2.38	0.68	0.10	0.28	0.16	0.03	0.05	0.02	1.48
W871051		2.44	51.4	15.45	9.10	10.15	9.57	2.35	0.68	0.10	0.29	0.16	0.04	0.04	0.02	1.50
W871052		2.60	50.9	12.50	10.20	10.40	11.35	1.85	0.80	0.14	0.33	0.19	0.04	0.02	0.02	2.08
W871053		2.57	49.5	12.60	12.65	9.81	10.40	1.91	0.84	0.11	0.62	0.22	0.09	0.03	0.02	1.66
W871054		1.90	47.2	11.95	15.40	11.40	9.69	1.55	0.60	0.05	0.90	0.25	0.08	0.02	0.02	1.85
W871055		2.42	42.9	11.50	16.35	13.35	8.11	1.07	0.84	0.02	1.03	0.23	0.04	0.01	0.04	3.12
W871056		2.33	43.5	12.40	14.65	13.85	10.05	1.23	0.50	0.01	0.69	0.26	0.02	0.01	0.02	2.08
W871057		1.94	48.1	12.70	13.90	9.17	10.15	2.05	0.90	0.02	0.53	0.26	0.03	0.01	0.02	1.97
W871058		2.09	46.0	10.50	15.95	7.66	15.45	1.19	0.51	0.12	0.74	0.22	0.02	0.01	0.02	2.85
W871059		2.61	47.2	12.70	16.10	9.67	9.92	2.13	0.42	0.04	1.03	0.25	0.02	0.01	0.01	1.45
W871060		0.08	61.7	16.35	5.75	6.10	2.67	3.27	1.46	<0.01	0.49	0.12	0.14	0.06	0.06	1.00
W871061		2.58	45.8	13.20	17.65	9.08	8.75	2.16	0.50	0.03	1.45	0.29	0.05	0.02	0.02	1.35
W871062		2.60	46.5	11.95	13.55	9.90	15.10	1.39	0.30	0.15	0.46	0.24	<0.01	<0.01	0.01	2.08
W871063		2.28	45.4	11.20	13.20	10.45	13.00	1.35	0.47	0.14	0.45	0.24	<0.01	0.01	0.03	2.29
W871064		2.50	44.5	10.25	13.15	9.83	16.95	0.96	0.12	0.17	0.46	0.20	0.01	<0.01	<0.01	2.97

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THUNDER BAY ON P7B 2R2

Finalized Date: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871025		101.12	0.03	0.01	551	29.1	10	0.69	3.59	2.54	0.87	16.4	3.61	<5	3.8	0.81
W871026		98.62	0.23	2.54	269	18.8	740	0.41	2.37	1.47	0.67	10.7	2.52	<5	1.9	0.50
W871027		100.92	<0.01	0.01	106.5	15.6	90	0.53	3.67	2.35	1.00	19.9	3.35	<5	2.2	0.84
W871028		101.96	0.01	0.01	121.0	16.5	90	0.70	4.03	2.42	1.06	20.4	3.72	<5	2.1	0.84
W871029		100.17	<0.01	0.02	122.0	17.2	90	0.84	4.11	2.54	1.01	20.1	3.72	<5	2.4	0.86
W871030		99.96	0.01	0.01	116.5	17.4	90	0.81	4.02	2.52	1.10	20.2	3.90	<5	2.4	0.96
W871031		99.71	<0.01	0.01	148.0	17.7	90	1.00	4.46	2.63	1.10	20.6	3.97	<5	2.3	0.88
W871032		100.78	0.01	0.02	134.0	20.3	100	0.99	4.94	3.06	1.16	21.0	4.31	<5	2.7	1.06
W871033		100.61	0.06	0.01	242	9.5	1250	2.46	1.46	0.87	0.49	12.5	1.56	<5	0.8	0.30
W871034		98.92	0.04	<0.01	211	9.3	1370	2.49	1.47	0.73	0.42	12.4	1.20	<5	0.7	0.25
W871035		100.65	0.03	0.01	182.0	8.0	1160	2.13	1.06	0.72	0.39	11.1	1.25	<5	0.6	0.24
W871036		100.50	0.04	0.02	202	9.0	1190	2.44	1.26	0.76	0.49	13.0	1.29	<5	0.6	0.25
W871037		99.14	0.07	0.02	160.0	9.1	1260	2.22	1.22	0.77	0.47	12.0	1.38	<5	0.6	0.27
W871038		99.45	0.03	0.02	170.5	10.5	1170	1.80	1.36	0.85	0.53	12.6	1.51	<5	0.8	0.29
W871039		98.88	0.03	0.02	158.0	11.7	1150	2.06	1.57	0.99	0.64	12.5	1.92	<5	1.0	0.35
W871040		99.11	0.08	1.51	200	26.7	240	0.93	2.51	1.39	1.03	16.5	2.58	<5	2.3	0.49
W871041		100.62	0.04	0.01	160.0	10.0	1270	1.96	1.73	0.94	0.60	11.9	1.74	<5	0.7	0.34
W871042		100.99	0.06	0.03	155.0	10.8	1270	1.45	1.38	0.89	0.57	11.7	1.63	<5	0.7	0.29
W871043		99.70	0.05	0.03	178.5	10.0	1280	1.77	1.52	0.92	0.58	11.6	1.40	<5	0.9	0.29
W871044		98.77	0.04	0.02	159.0	9.7	1310	1.68	1.40	0.87	0.53	11.8	1.56	<5	0.7	0.29
W871045		99.78	0.06	0.01	140.5	9.4	1320	1.49	1.50	0.88	0.54	11.0	1.56	<5	0.6	0.27
W871046		100.54	0.03	0.02	158.0	9.3	1400	1.69	1.45	0.79	0.46	11.6	1.59	<5	0.8	0.31
W871047		99.68	0.02	0.01	189.5	8.8	1020	3.06	1.50	0.90	0.57	13.2	1.49	<5	0.6	0.28
W871048		100.39	0.02	0.02	211	9.5	710	5.39	1.19	0.73	0.62	14.8	1.42	<5	0.6	0.25
W871049		99.79	0.02	0.01	201	9.2	720	3.53	1.12	0.76	0.50	15.0	1.31	<5	0.7	0.27
W871050		100.18	0.02	0.01	183.5	11.5	680	2.88	1.25	0.77	0.60	14.6	1.53	<5	0.5	0.24
W871051		100.85	0.02	0.01	188.0	8.6	670	3.20	1.19	0.74	0.64	14.8	1.12	<5	0.4	0.23
W871052		100.82	0.02	0.01	183.5	9.4	970	2.50	1.65	0.98	0.55	13.3	1.73	<5	0.6	0.31
W871053		100.46	0.02	0.04	200	13.7	770	2.69	1.78	0.99	0.68	14.4	2.10	<5	0.9	0.35
W871054		100.96	0.05	0.32	167.5	14.3	330	1.68	2.33	1.22	0.74	15.3	2.27	<5	1.4	0.48
W871055		98.61	0.04	2.13	297	11.3	110	2.53	2.09	1.27	0.63	13.7	2.02	<5	0.9	0.42
W871056		99.27	0.07	0.44	130.0	5.3	80	0.87	2.08	1.56	0.61	14.7	1.67	<5	0.9	0.51
W871057		99.81	0.17	0.15	177.0	3.9	130	0.84	1.27	0.86	0.45	12.1	0.96	<5	0.7	0.30
W871058		101.24	0.09	0.13	133.5	7.8	840	2.47	1.38	0.92	0.50	13.6	1.29	<5	0.6	0.30
W871059		100.95	0.06	0.22	120.0	6.4	300	3.93	2.57	1.64	0.73	15.4	2.26	<5	1.0	0.58
W871060		99.17	0.03	0.02	584	29.6	10	0.71	3.75	2.52	0.95	16.5	3.81	<5	3.9	0.82
W871061		100.35	0.04	0.32	170.0	11.9	190	2.84	2.24	1.45	0.72	17.8	2.07	<5	0.7	0.50
W871062		101.63	0.04	0.02	112.0	3.2	990	1.67	1.47	1.00	0.35	10.9	1.11	<5	0.3	0.33
W871063		98.23	0.03	0.02	254	2.7	1030	3.45	1.77	1.33	0.38	10.3	1.12	<5	0.4	0.42
W871064		99.57	0.07	0.03	16.9	2.9	1220	0.16	1.71	1.15	0.36	10.1	1.31	<5	0.4	0.37

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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
W871025		12.9	0.40	3.3	16.9	3.95	25.5	3.95	1	477	0.2	0.58	2.80	0.37	1.36	147
W871026		8.9	0.21	6.2	10.1	2.35	4.7	2.40	2	62.6	0.4	0.40	1.91	0.24	1.00	166
W871027		6.7	0.36	4.1	10.0	2.19	7.8	3.11	1	151.5	0.2	0.59	0.93	0.35	0.26	310
W871028		7.2	0.34	4.3	10.7	2.32	9.5	2.97	1	156.0	0.2	0.66	1.11	0.37	0.30	316
W871029		7.3	0.40	4.4	11.0	2.34	9.6	3.20	1	151.0	0.3	0.67	1.11	0.38	0.78	329
W871030		7.3	0.39	4.5	11.3	2.34	9.7	3.25	1	151.5	0.3	0.69	1.13	0.39	0.37	341
W871031		7.9	0.38	4.6	11.7	2.44	13.7	3.29	1	158.0	0.3	0.63	1.12	0.38	0.41	341
W871032		8.7	0.43	5.3	13.2	2.81	13.3	3.86	1	146.5	0.3	0.77	1.36	0.43	0.45	381
W871033		4.1	0.14	1.1	6.0	1.28	28.1	1.65	<1	234	0.1	0.22	0.47	0.14	0.16	209
W871034		4.0	0.11	0.8	5.8	1.26	25.5	1.35	<1	208	<0.1	0.22	0.48	0.12	0.15	219
W871035		3.5	0.08	0.7	4.8	1.08	25.2	1.38	<1	212	0.1	0.17	0.47	0.11	0.17	198
W871036		3.8	0.11	0.8	5.8	1.23	20.7	1.42	<1	284	0.1	0.21	0.49	0.13	0.14	215
W871037		3.9	0.11	0.8	5.6	1.26	15.6	1.60	<1	186.5	0.1	0.22	0.36	0.12	0.11	242
W871038		4.6	0.14	1.0	6.6	1.44	18.4	1.61	<1	245	0.1	0.26	0.72	0.12	0.25	218
W871039		5.0	0.16	1.0	7.5	1.67	18.2	1.81	<1	226	0.1	0.26	0.68	0.16	0.20	216
W871040		12.1	0.21	7.1	13.8	3.22	16.0	3.02	4	255	0.4	0.42	1.76	0.18	0.52	124
W871041		4.1	0.14	0.8	6.8	1.46	18.0	1.88	<1	248	0.1	0.24	0.40	0.14	0.13	237
W871042		4.3	0.13	1.0	7.0	1.52	13.3	1.71	<1	247	0.1	0.23	0.47	0.13	0.15	219
W871043		4.0	0.15	0.9	6.4	1.41	19.5	1.70	<1	192.0	<0.1	0.25	0.41	0.14	0.14	216
W871044		4.0	0.14	0.9	6.6	1.38	16.1	1.61	<1	202	0.1	0.26	0.35	0.14	0.14	235
W871045		3.8	0.12	0.8	6.3	1.32	16.5	1.54	<1	182.5	0.1	0.23	0.40	0.14	0.14	232
W871046		3.9	0.14	0.8	6.2	1.28	19.8	1.58	<1	196.5	0.1	0.25	0.55	0.13	0.19	247
W871047		3.8	0.13	0.7	5.5	1.16	17.2	1.46	1	287	<0.1	0.21	0.59	0.14	0.18	185
W871048		4.3	0.11	0.6	5.9	1.32	19.3	1.45	<1	350	<0.1	0.19	0.32	0.12	0.10	172
W871049		4.3	0.12	0.8	5.3	1.23	18.8	1.42	<1	370	<0.1	0.20	0.34	0.12	0.09	176
W871050		5.3	0.10	1.0	6.4	1.45	18.7	1.53	<1	401	0.1	0.20	0.91	0.10	0.10	173
W871051		3.8	0.11	0.6	5.3	1.12	18.1	1.41	<1	367	<0.1	0.20	0.42	0.12	0.09	182
W871052		3.6	0.16	0.7	6.4	1.42	21.6	1.70	<1	194.0	<0.1	0.24	0.33	0.14	0.10	197
W871053		5.6	0.14	1.6	8.4	1.88	22.6	2.08	1	238	0.1	0.27	0.95	0.15	0.24	318
W871054		5.9	0.18	1.9	8.9	2.08	13.8	2.46	1	193.0	0.1	0.37	0.44	0.20	0.16	431
W871055		4.8	0.17	1.5	7.3	1.65	20.4	2.12	1	114.0	0.1	0.36	0.49	0.18	0.20	436
W871056		2.2	0.27	0.8	4.0	0.79	12.0	1.32	1	108.5	0.1	0.33	0.14	0.24	0.05	347
W871057		1.7	0.15	0.5	2.5	0.55	25.8	0.77	<1	107.0	<0.1	0.18	0.36	0.14	0.11	346
W871058		3.4	0.14	1.2	4.8	1.05	13.7	1.20	1	123.5	0.1	0.20	0.49	0.12	0.14	403
W871059		2.5	0.26	1.0	5.2	1.01	9.2	1.70	1	136.5	0.1	0.41	0.40	0.24	0.13	426
W871060		14.5	0.43	3.2	19.1	3.84	26.6	4.09	1	481	0.1	0.61	3.01	0.37	1.34	154
W871061		5.6	0.21	3.2	8.2	1.70	11.9	2.20	1	205	<0.1	0.39	0.32	0.23	0.08	567
W871062		1.5	0.14	0.4	2.3	0.45	7.5	0.83	<1	43.3	<0.1	0.21	0.27	0.16	0.07	259
W871063		1.2	0.17	0.4	2.6	0.49	13.0	0.99	<1	66.0	<0.1	0.25	0.05	0.20	<0.05	261
W871064		1.3	0.17	0.4	2.7	0.46	1.2	0.85	1	20.1	<0.1	0.24	0.08	0.16	0.05	253

***** 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: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
W871025		5	21.4	2.44	129	0.9	0.05	<0.005	0.007	0.001	0.12	0.2	<0.01	0.04	<0.5	<0.5
W871026		7	13.2	1.32	66	44.7	0.31	0.111	0.051	0.015	1.27	12.8	1.23	0.06	2.2	1.4
W871027		21	20.7	2.14	71	0.4	0.02	0.006	0.012	<0.001	<0.05	0.3	0.01	0.07	<0.5	0.6
W871028		14	21.7	2.32	74	0.4	0.02	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.08	<0.5	0.9
W871029		<1	22.7	2.43	77	0.3	0.02	0.006	0.014	0.001	<0.05	0.4	0.01	0.08	<0.5	0.9
W871030		9	23.1	2.28	79	0.3	0.02	0.005	0.014	0.001	<0.05	0.5	0.01	0.09	<0.5	0.7
W871031		10	23.5	2.48	79	0.4	0.03	0.005	0.013	0.001	<0.05	0.5	<0.01	0.21	<0.5	0.7
W871032		22	27.2	2.65	91	0.7	0.03	0.014	0.010	0.001	<0.05	0.4	<0.01	0.21	<0.5	0.7
W871033		24	7.9	0.92	24	0.6	0.04	0.008	0.006	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	0.7
W871034		1	7.1	0.75	21	0.7	0.03	0.008	<0.005	<0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
W871035		23	6.1	0.66	16	0.4	0.03	0.007	<0.005	<0.001	<0.05	0.2	0.02	0.05	<0.5	0.7
W871036		3	6.8	0.73	17	0.1	0.03	0.011	<0.005	<0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
W871037		17	6.9	0.71	17	<0.1	0.03	0.011	<0.005	<0.001	<0.05	0.3	<0.01	<0.02	<0.5	0.7
W871038		<1	7.4	0.81	23	0.4	0.02	0.008	<0.005	<0.001	<0.05	0.2	<0.01	0.03	<0.5	0.5
W871039		18	9.2	0.94	34	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	0.6
W871040		7	12.8	1.16	88	4.8	0.85	0.012	0.062	0.005	0.34	5.9	0.60	0.09	1.8	1.4
W871041		9	8.8	0.94	19	0.3	0.03	0.005	0.005	<0.001	<0.05	0.3	<0.01	0.03	<0.5	0.5
W871042		<1	8.1	0.81	20	0.4	0.02	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W871043		18	7.7	0.84	26	0.5	0.04	<0.005	0.008	<0.001	<0.05	0.3	0.01	0.04	<0.5	0.6
W871044		1	8.0	0.80	20	0.4	0.04	<0.005	<0.005	0.003	<0.05	<0.2	<0.01	0.02	<0.5	0.7
W871045		7	7.8	0.89	19	0.5	0.05	<0.005	0.005	<0.001	<0.05	0.4	<0.01	0.02	<0.5	0.7
W871046		4	8.2	0.91	21	0.3	0.04	<0.005	0.006	0.001	<0.05	0.2	<0.01	0.03	<0.5	0.6
W871047		<1	7.4	0.84	17	0.3	0.03	<0.005	<0.005	<0.001	<0.05	0.3	<0.01	<0.02	<0.5	0.6
W871048		<1	6.7	0.72	17	0.3	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W871049		<1	6.6	0.67	20	0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W871050		28	6.5	0.64	16	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W871051		10	6.2	0.79	15	0.1	0.01	0.006	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W871052		12	8.2	0.85	18	0.3	0.04	0.007	<0.005	<0.001	<0.05	0.3	0.05	<0.02	<0.5	<0.5
W871053		19	9.1	0.93	29	<0.1	0.02	0.008	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W871054		5	12.1	1.35	50	0.3	0.07	<0.005	0.015	0.002	0.05	0.8	0.01	0.06	<0.5	1.4
W871055		7	11.2	1.21	30	2.7	0.28	<0.005	0.030	0.007	0.30	3.1	0.20	0.65	0.9	0.9
W871056		20	13.4	1.67	26	0.7	0.09	0.009	0.017	0.001	0.05	1.1	0.15	0.10	<0.5	0.5
W871057		<1	7.4	0.88	23	0.7	0.05	0.005	0.008	0.001	<0.05	0.6	0.04	0.03	<0.5	0.6
W871058		6	7.7	0.81	18	2.6	0.03	<0.005	0.010	0.001	<0.05	0.3	0.04	0.50	<0.5	0.5
W871059		3	14.0	1.53	35	0.9	0.04	0.006	0.013	0.001	<0.05	0.5	0.06	0.05	<0.5	0.7
W871060		5	22.7	2.68	145	1.1	0.04	0.005	0.008	0.001	0.14	<0.2	0.02	0.05	<0.5	<0.5
W871061		2	11.3	1.10	22	0.6	0.04	<0.005	0.013	0.001	0.05	0.5	0.07	0.04	<0.5	1.2
W871062		2	8.4	0.90	8	0.4	0.03	0.012	0.007	0.008	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W871063		2	10.4	1.08	9	1.0	0.02	0.006	0.008	0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
W871064		2	9.4	1.12	8	2.0	0.02	0.005	0.008	<0.001	<0.05	0.2	0.02	<0.02	<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: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871025		12	93	10	2	5	10	18	66	0.002	<0.005	0.001	0.028
W871026		148	5440	40	2	2060	3	24	75	0.107	0.712	0.364	10.55
W871027		59	186	10	<1	179	6	28	107	0.004	0.006	0.017	0.182
W871028		57	185	10	<1	170	2	28	121	0.004	0.005	0.018	0.159
W871029		58	206	10	<1	163	3	30	119	0.004	<0.005	0.018	0.181
W871030		55	199	10	1	140	3	31	112	0.004	<0.005	0.019	0.174
W871031		59	194	10	<1	181	6	30	121	0.004	<0.005	0.019	0.170
W871032		53	224	20	<1	107	12	35	125	0.004	<0.005	0.022	0.184
W871033		61	32	40	<1	294	<2	34	114	<0.001	0.005	0.004	0.024
W871034		56	17	40	<1	285	8	34	69	<0.001	<0.005	0.003	0.012
W871035		58	13	30	<1	283	4	34	77	<0.001	0.005	0.003	0.020
W871036		54	9	30	<1	276	<2	29	80	<0.001	<0.005	0.003	0.021
W871037		53	10	30	<1	278	<2	34	57	<0.001	<0.005	0.003	0.021
W871038		56	11	30	<1	274	2	32	83	0.004	0.019	0.043	0.023
W871039		59	12	30	<1	263	4	36	87	<0.001	<0.005	0.003	0.025
W871040		111	4420	20	4	4220	25	11	106	0.087	0.288	0.596	4.22
W871041		64	12	30	<1	298	4	38	85	<0.001	<0.005	0.003	0.020
W871042		60	11	30	<1	305	<2	37	83	<0.001	<0.005	0.003	0.025
W871043		65	12	30	1	330	<2	35	78	<0.001	0.005	0.003	0.020
W871044		61	8	30	7	316	3	36	70	<0.001	0.007	0.005	0.016
W871045		60	8	30	<1	303	<2	35	84	<0.001	0.010	0.005	0.016
W871046		60	9	30	<1	306	<2	34	100	0.003	0.008	0.004	0.013
W871047		50	6	30	<1	235	<2	28	70	<0.001	0.007	0.009	0.008
W871048		42	35	30	<1	182	3	25	62	<0.001	0.007	0.010	0.011
W871049		43	9	30	<1	184	<2	26	64	<0.001	0.008	0.007	0.008
W871050		42	10	30	<1	181	<2	30	58	<0.001	0.005	0.006	0.007
W871051		41	17	30	<1	178	3	28	59	<0.001	0.006	0.005	0.007
W871052		48	25	40	<1	199	<2	35	57	0.002	0.029	0.100	0.009
W871053		54	44	30	<1	169	3	37	93	<0.001	<0.005	0.004	0.058
W871054		64	303	40	<1	186	12	42	675	0.003	<0.005	0.005	0.442
W871055		174	1120	50	1	591	12	41	154	0.031	<0.005	0.018	2.64
W871056		71	480	50	<1	200	2	47	118	0.017	0.014	0.029	0.812
W871057		66	197	30	<1	104	<2	52	75	0.004	0.011	0.015	0.367
W871058		93	166	30	<1	341	13	34	131	0.006	<0.005	0.004	0.317
W871059		68	286	20	1	177	2	51	110	0.008	<0.005	0.005	0.531
W871060		15	98	10	2	7	7	19	66	0.001	<0.005	0.001	0.027
W871061		71	291	40	<1	119	62	45	316	0.005	<0.005	0.005	0.498
W871062		71	44	40	8	262	<2	39	72	0.001	0.006	0.008	0.052
W871063		77	54	50	<1	292	2	47	62	0.001	<0.005	0.007	0.047
W871064		83	118	30	1	344	2	44	68	0.003	0.005	0.009	0.081

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

Finalized Date: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871065		2.36	47.3	12.95	12.85	7.71	12.45	1.59	0.89	0.10	0.53	0.25	0.01	0.02	0.03	2.00
W871066		2.55	45.5	12.95	13.15	10.75	11.65	1.60	0.69	0.11	0.79	0.24	0.10	0.01	0.03	2.14
W871067		2.44	45.5	11.65	13.60	8.88	14.55	1.21	0.57	0.10	0.60	0.23	0.07	0.01	0.02	2.45
W871068		2.40	46.0	13.35	13.05	8.88	10.75	1.99	0.77	0.08	1.00	0.23	0.52	0.02	0.03	1.76
W871069		2.32	46.1	11.90	13.75	9.30	15.40	1.28	0.46	0.13	0.51	0.22	0.10	<0.01	0.01	2.79
W871070		2.61	48.8	16.05	11.35	10.10	5.43	3.38	1.10	0.01	1.87	0.23	0.52	0.03	0.03	1.72
W871071		2.23	46.8	11.45	13.25	11.80	12.75	1.34	0.33	0.15	0.50	0.23	0.01	<0.01	0.01	1.95
W871072		2.31	48.0	12.35	12.00	8.00	13.90	2.00	0.65	0.13	0.52	0.21	0.12	0.02	0.03	2.37
W871073		2.52	47.2	14.00	10.60	8.45	13.95	1.37	0.96	0.16	0.46	0.20	0.04	0.01	0.04	2.99
W871074		2.32	46.1	8.46	11.00	7.90	21.2	0.55	0.14	0.37	0.26	0.19	0.02	<0.01	<0.01	4.38
W871075		2.53	46.8	8.50	10.25	8.23	22.0	0.56	0.07	0.53	0.27	0.16	0.02	<0.01	<0.01	4.50
W871076		2.57	46.8	10.75	11.60	11.20	15.45	1.18	0.36	0.30	0.37	0.22	0.02	0.01	0.01	1.94
W871077		2.46	46.3	10.05	10.90	10.30	16.65	1.07	0.28	0.32	0.36	0.19	0.02	<0.01	0.01	2.01
W871078		2.57	45.6	10.10	10.65	10.05	17.60	1.01	0.18	0.33	0.35	0.18	0.02	<0.01	<0.01	2.61
W871079		2.38	47.2	11.45	11.55	10.95	13.75	1.34	0.55	0.27	0.46	0.19	0.04	0.01	0.02	2.32
W871080		0.08	41.1	9.01	15.10	15.95	11.05	0.61	0.23	0.11	0.69	0.15	0.11	<0.01	0.03	3.95
W871081		2.41	46.1	13.10	13.55	11.10	11.10	1.76	0.87	0.17	0.79	0.24	0.05	0.01	0.02	2.24
W871082		2.53	47.7	12.70	13.15	10.15	9.09	2.35	0.54	0.09	0.76	0.24	0.05	0.01	0.01	1.26
W871083		2.53	46.6	13.95	13.55	10.25	8.43	2.32	0.50	0.03	0.90	0.22	0.04	0.01	0.01	1.19
W871084		2.66	48.4	12.85	12.65	10.85	8.74	2.33	0.56	0.10	0.80	0.23	0.05	0.01	0.02	1.48
W871085		2.01	46.8	13.30	15.70	9.77	7.43	2.48	0.58	0.05	1.49	0.29	0.12	0.01	0.01	1.16
W871086		3.14	46.6	12.20	13.90	9.29	11.95	1.96	0.49	0.11	0.84	0.24	0.06	0.01	0.01	1.72
W871087		2.49	48.3	13.50	13.15	9.10	9.84	2.27	0.52	0.07	0.82	0.22	0.05	0.01	0.02	1.60
W871088		2.63	46.9	14.35	13.50	9.06	9.48	2.08	0.80	0.05	0.95	0.23	0.09	0.01	0.02	1.81
W871089		2.49	47.9	15.75	10.30	10.35	9.78	1.81	0.79	0.07	0.50	0.19	0.03	0.01	0.02	2.11
W871090		2.52	48.7	14.45	10.30	11.65	8.91	2.07	0.69	0.09	0.54	0.20	0.02	0.02	0.02	1.78
W871091		2.44	47.1	12.90	11.05	8.00	14.35	1.47	0.59	0.13	0.50	0.20	0.03	0.01	0.02	2.90
W871092		2.03	47.2	12.40	11.40	9.94	13.50	1.75	0.42	0.15	0.49	0.19	0.04	0.01	0.01	2.43
W871093		2.11	53.9	12.10	8.92	6.33	13.50	2.20	0.69	0.12	0.39	0.14	0.05	0.01	0.02	2.95
W871094		2.47	45.8	10.20	12.70	7.71	18.60	0.70	0.24	0.18	0.44	0.20	0.04	<0.01	0.01	3.38
W871095		2.41	45.6	9.93	12.60	8.28	17.80	0.72	0.21	0.19	0.44	0.21	0.03	<0.01	0.01	3.02
W871096		2.44	45.6	9.90	13.80	5.70	18.45	0.71	0.60	0.16	0.62	0.23	0.05	<0.01	0.02	2.70
W871097		0.08	46.5	12.70	20.8	6.18	6.54	2.16	0.62	0.03	1.23	0.19	0.14	0.03	0.02	1.17
W875956		2.45	47.8	15.65	13.85	9.57	7.63	2.34	0.38	0.01	1.05	0.19	0.10	0.02	0.01	0.12
W875957		2.71	47.7	15.05	14.35	9.61	7.94	2.22	0.35	0.01	1.07	0.20	0.10	0.02	0.01	-0.14
W875958		2.73	49.1	15.05	14.95	9.81	8.80	2.26	0.31	0.01	1.10	0.21	0.11	0.02	0.01	-0.25
W875959		2.58	47.7	14.80	15.00	9.77	7.30	2.24	0.58	0.01	1.22	0.25	0.12	0.02	0.02	0.69
W875960		2.38	49.0	14.45	15.30	9.90	7.01	2.32	0.40	0.01	1.31	0.21	0.13	0.02	0.01	0.23

***** 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: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871065		98.68	0.02	0.02	296	3.1	750	1.65	1.68	1.09	0.37	11.7	1.27	<5	0.3	0.38
W871066		99.71	0.04	0.01	277	14.0	810	3.79	2.71	1.60	0.68	13.6	2.50	<5	0.9	0.59
W871067		99.44	0.02	0.07	187.5	4.3	750	2.42	1.90	1.23	0.45	11.8	1.47	<5	0.3	0.43
W871068		98.43	0.05	0.15	232	25.0	600	3.33	2.71	1.67	0.83	15.2	3.39	<5	1.3	0.61
W871069		101.95	0.04	0.05	118.5	7.2	930	1.66	1.75	1.09	0.47	12.3	1.53	<5	0.4	0.38
W871070		100.62	0.07	0.02	304	29.5	110	6.63	2.95	1.60	0.83	16.7	3.75	<5	1.9	0.57
W871071		100.57	0.05	0.01	118.0	3.5	1060	2.10	1.78	1.30	0.41	11.0	1.35	<5	0.4	0.40
W871072		100.30	0.04	0.03	226	24.9	930	1.72	2.13	1.34	0.77	13.5	2.72	<5	1.2	0.47
W871073		100.43	0.02	0.01	334	7.6	1170	3.65	1.72	1.22	0.44	12.5	1.67	<5	0.5	0.39
W871074		100.57	0.06	0.04	37.5	3.7	2580	0.84	1.16	0.84	0.25	8.9	0.94	<5	0.5	0.28
W871075		101.89	0.05	0.03	15.7	2.6	3780	0.78	1.28	0.95	0.22	8.7	0.89	<5	0.5	0.30
W871076		100.21	0.03	0.02	115.5	3.3	2120	1.20	1.55	1.32	0.28	10.4	1.23	<5	0.6	0.38
W871077		98.46	0.03	0.02	79.6	3.2	2370	0.87	1.58	1.14	0.28	10.0	1.22	<5	0.6	0.41
W871078		98.68	0.05	0.05	41.1	3.1	2440	0.64	1.48	1.15	0.27	10.4	1.19	<5	0.6	0.35
W871079		100.10	0.04	0.01	160.5	3.8	1920	2.73	1.92	1.27	0.34	11.4	1.32	<5	0.6	0.46
W871080		98.09	0.24	2.29	286	19.1	770	0.44	2.33	1.51	0.70	10.8	2.49	<5	1.9	0.54
W871081		101.10	0.08	0.06	179.5	7.3	1180	3.41	2.72	1.97	0.57	13.9	2.14	<5	1.1	0.62
W871082		98.10	0.02	0.02	128.5	5.6	650	3.93	2.96	1.97	0.58	14.6	2.35	<5	1.1	0.63
W871083		98.00	0.01	0.03	98.2	6.4	250	4.39	3.30	2.29	0.67	15.5	2.81	<5	1.2	0.81
W871084		99.07	0.03	0.04	141.5	6.5	730	3.96	2.73	2.00	0.54	14.4	2.51	<5	1.2	0.64
W871085		99.19	0.02	0.17	123.0	10.9	330	3.00	4.51	2.88	0.96	16.6	3.76	<5	2.1	1.06
W871086		99.38	0.01	0.04	117.0	7.8	750	2.56	2.77	2.07	0.61	13.7	2.46	<5	1.4	0.63
W871087		99.47	0.02	0.02	134.0	6.9	490	3.42	3.37	1.95	0.59	14.5	2.58	<5	1.3	0.71
W871088		99.33	0.02	0.03	210	7.8	360	3.36	3.37	2.04	0.63	15.4	2.73	<5	1.3	0.68
W871089		99.61	0.02	0.01	211	4.9	520	4.19	1.99	1.34	0.47	13.4	1.53	<5	0.7	0.48
W871090		99.44	0.03	0.02	184.5	5.1	630	4.45	2.15	1.55	0.46	13.0	1.65	<5	0.9	0.48
W871091		99.25	0.02	0.02	147.5	5.1	980	2.48	2.24	1.48	0.42	13.2	1.49	<5	0.9	0.49
W871092		99.93	0.06	0.01	117.0	6.4	1000	2.97	2.08	1.48	0.40	12.4	1.84	<5	0.8	0.43
W871093		101.32	0.03	0.04	147.0	27.7	810	0.72	1.41	0.79	0.56	14.8	1.55	<5	3.2	0.26
W871094		100.20	0.02	0.01	47.4	6.0	1380	0.68	2.04	1.22	0.49	11.5	1.42	<5	1.0	0.43
W871095		99.04	0.03	0.01	45.5	5.8	1420	0.71	2.01	1.38	0.45	10.9	1.59	<5	0.9	0.44
W871096		98.54	0.03	0.01	129.5	7.0	1160	1.42	2.27	1.51	0.49	11.8	1.69	<5	1.4	0.49
W871097		98.31	0.08	1.71	212	26.8	250	1.05	2.67	1.51	1.06	16.0	2.84	<5	2.4	0.51
W875956		98.72	0.01	0.03	120.0	16.4	90	1.14	3.97	2.46	1.01	20.2	3.52	<5	2.0	0.86
W875957		98.49	0.01	0.02	114.0	15.9	90	0.83	4.08	2.42	0.96	19.8	3.74	<5	2.1	0.82
W875958		101.49	0.01	0.02	114.0	15.9	90	0.70	4.01	2.39	1.08	19.5	3.40	<5	2.1	0.82
W875959		99.72	<0.01	0.03	161.0	20.8	90	0.99	4.53	2.74	1.15	20.3	4.04	<5	2.3	1.00
W875960		100.30	0.02	0.02	129.5	18.5	100	1.12	4.73	3.06	1.20	20.2	4.30	<5	2.5	1.01

***** 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: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871065		1.3	0.16	0.4	2.5	0.44	27.0	0.85	<1	145.0	<0.1	0.23	0.09	0.17	0.05	300
W871066		6.1	0.24	2.4	9.7	1.91	19.8	2.27	<1	138.0	<0.1	0.46	0.76	0.26	0.22	283
W871067		1.9	0.19	0.4	3.5	0.69	16.0	1.00	<1	72.2	<0.1	0.29	0.10	0.19	0.05	277
W871068		11.5	0.24	2.0	16.3	3.46	22.9	3.47	<1	185.0	<0.1	0.54	1.17	0.22	0.29	314
W871069		3.1	0.17	0.6	4.7	0.95	13.2	1.34	<1	51.7	<0.1	0.26	0.20	0.16	0.09	263
W871070		13.8	0.21	4.6	18.9	3.82	31.3	3.70	<1	244	0.2	0.49	3.45	0.24	0.50	353
W871071		1.4	0.17	0.3	3.1	0.58	7.4	1.02	<1	44.4	<0.1	0.26	0.14	0.20	0.05	282
W871072		11.3	0.22	2.6	15.4	3.33	17.5	2.95	<1	203	<0.1	0.40	1.47	0.22	0.40	199
W871073		3.3	0.17	1.1	5.2	1.03	30.1	1.41	<1	129.0	<0.1	0.29	0.29	0.19	0.08	208
W871074		1.5	0.14	0.5	2.4	0.48	3.3	0.65	<1	23.6	<0.1	0.17	0.15	0.13	0.07	155
W871075		1.1	0.15	0.5	2.1	0.38	2.0	0.55	<1	21.4	<0.1	0.18	0.07	0.16	0.14	158
W871076		1.4	0.22	0.8	2.6	0.46	8.0	0.71	1	55.6	<0.1	0.26	0.10	0.19	<0.05	200
W871077		1.3	0.20	0.8	2.6	0.52	5.9	0.81	<1	37.2	<0.1	0.24	0.08	0.19	<0.05	206
W871078		1.4	0.17	0.8	2.5	0.47	3.8	0.91	<1	25.3	<0.1	0.22	0.10	0.19	0.51	188
W871079		1.7	0.20	1.0	3.2	0.56	13.3	0.91	<1	79.7	<0.1	0.26	0.12	0.21	0.05	228
W871080		9.9	0.22	6.2	11.0	2.42	4.8	2.63	2	62.9	0.3	0.41	1.90	0.24	0.96	173
W871081		3.3	0.29	1.8	5.5	1.04	21.3	1.61	<1	87.7	<0.1	0.37	0.12	0.27	0.08	266
W871082		2.1	0.28	1.7	5.5	0.88	11.2	1.70	<1	109.0	<0.1	0.44	0.09	0.33	<0.05	306
W871083		2.2	0.34	2.0	5.8	1.05	9.7	1.98	<1	114.0	<0.1	0.51	<0.05	0.36	<0.05	336
W871084		2.6	0.28	2.1	5.7	1.01	13.1	1.89	2	116.5	<0.1	0.40	0.14	0.30	<0.05	276
W871085		4.3	0.43	4.0	9.4	1.73	12.0	2.69	1	112.0	0.1	0.66	0.27	0.47	0.07	335
W871086		3.1	0.33	2.3	6.5	1.20	12.6	1.90	<1	75.9	<0.1	0.42	0.28	0.28	0.06	255
W871087		2.8	0.32	1.9	5.8	1.06	13.6	1.67	<1	103.5	<0.1	0.44	0.20	0.34	0.07	281
W871088		3.2	0.31	2.4	6.3	1.23	22.4	1.88	<1	115.0	<0.1	0.45	0.16	0.32	<0.05	281
W871089		2.1	0.22	1.2	3.9	0.68	22.4	1.02	<1	122.5	<0.1	0.29	0.11	0.23	<0.05	218
W871090		2.1	0.23	1.2	3.9	0.67	16.8	1.30	<1	124.0	<0.1	0.33	0.13	0.24	<0.05	245
W871091		2.2	0.25	1.3	3.9	0.73	19.6	1.35	<1	75.6	<0.1	0.29	0.20	0.25	0.05	232
W871092		2.6	0.24	1.4	5.0	0.94	10.2	1.48	<1	75.7	<0.1	0.30	0.37	0.20	0.19	220
W871093		14.4	0.14	3.0	13.1	3.23	23.3	2.02	<1	91.0	0.1	0.22	2.34	0.12	0.41	116
W871094		2.5	0.19	1.6	4.5	0.82	6.1	1.17	1	21.0	<0.1	0.29	0.26	0.23	0.09	195
W871095		2.4	0.23	1.5	4.1	0.78	5.5	1.22	1	20.7	<0.1	0.28	0.23	0.21	0.07	200
W871096		2.7	0.27	1.7	4.5	0.85	21.0	1.26	1	33.6	<0.1	0.33	0.23	0.24	0.06	214
W871097		12.9	0.18	6.7	14.2	3.17	17.5	3.08	4	269	0.3	0.43	1.40	0.21	0.47	129
W875956		7.7	0.35	3.9	11.1	2.08	12.0	2.74	1	170.0	0.1	0.62	0.94	0.34	0.28	319
W875957		7.3	0.35	3.7	10.9	2.07	10.2	2.83	1	160.5	0.1	0.60	0.85	0.35	0.25	324
W875958		7.1	0.34	3.8	10.8	2.08	8.3	3.13	1	157.0	0.1	0.64	0.89	0.36	0.26	322
W875959		10.0	0.39	4.8	12.5	2.54	17.9	2.98	1	161.5	0.1	0.70	1.10	0.39	0.55	350
W875960		8.6	0.42	4.5	12.0	2.53	11.4	3.35	4	158.0	0.1	0.77	1.15	0.42	0.33	370

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

Finalized Date: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871065		2	9.2	1.21	7	0.8	0.04	<0.005	0.008	<0.001	<0.05	0.3	0.04	0.02	<0.5	<0.5
W871066		3	14.6	1.60	32	0.6	0.02	0.006	0.008	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W871067		4	10.6	1.18	10	0.7	0.03	0.006	0.010	0.001	<0.05	0.3	0.03	0.02	<0.5	<0.5
W871068		2	15.0	1.45	47	0.8	0.06	<0.005	0.012	0.001	<0.05	0.7	0.05	0.04	<0.5	<0.5
W871069		1	9.3	1.09	10	0.6	0.05	<0.005	0.013	0.001	<0.05	0.2	0.03	0.02	<0.5	0.5
W871070		2	14.6	1.38	81	1.4	0.02	0.007	0.009	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W871071		1	10.0	1.15	12	0.7	0.02	0.006	0.009	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.0
W871072		2	12.2	1.29	50	2.4	0.03	0.006	0.009	<0.001	<0.05	<0.2	0.02	0.16	<0.5	0.6
W871073		5	10.1	1.19	20	1.6	0.02	0.010	0.008	0.001	<0.05	<0.2	0.02	0.27	<0.5	0.7
W871074		3	7.3	0.80	18	2.3	0.03	0.006	0.006	<0.001	<0.05	0.2	0.03	0.67	<0.5	0.8
W871075		4	7.8	0.89	17	1.7	0.04	0.008	0.005	<0.001	<0.05	<0.2	0.01	0.37	<0.5	<0.5
W871076		31	10.1	1.38	21	0.4	0.03	0.009	0.007	0.001	<0.05	0.2	0.01	0.02	<0.5	1.0
W871077		3	10.2	1.10	21	0.8	0.03	<0.005	0.005	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.1
W871078		2	9.5	1.15	22	1.1	0.03	<0.005	0.005	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.5
W871079		2	10.9	1.25	23	0.9	0.02	<0.005	0.006	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W871080		1	13.4	1.33	75	47.4	0.29	0.141	0.058	0.016	1.37	13.2	1.44	0.07	2.2	1.1
W871081		2	15.7	1.93	36	0.7	0.03	<0.005	0.014	0.001	<0.05	0.4	0.01	0.02	<0.5	0.7
W871082		2	16.5	1.98	34	0.2	0.04	<0.005	0.010	0.001	<0.05	<0.2	0.06	<0.02	<0.5	0.7
W871083		2	18.8	2.30	35	0.3	0.03	0.008	0.013	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.6
W871084		15	16.6	1.98	43	0.3	0.02	<0.005	0.010	0.001	<0.05	0.2	0.04	<0.02	<0.5	0.7
W871085		2	25.5	2.76	79	0.6	0.08	<0.005	0.019	0.001	<0.05	0.5	0.04	<0.02	<0.5	0.6
W871086		2	16.9	2.03	50	0.4	0.01	<0.005	0.011	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.7
W871087		2	18.2	1.92	47	0.8	0.02	<0.005	0.013	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
W871088		1	18.1	2.12	47	0.6	0.03	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W871089		1	11.8	1.32	26	0.7	0.03	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
W871090		1	12.9	1.50	28	0.5	0.03	<0.005	0.009	<0.001	<0.05	0.3	0.02	<0.02	<0.5	0.6
W871091		2	12.5	1.53	31	0.6	0.05	<0.005	0.006	<0.001	0.05	<0.2	0.03	0.02	<0.5	0.6
W871092		1	11.7	1.36	31	0.7	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W871093		1	6.8	0.77	137	0.9	0.04	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	0.5
W871094		9	11.7	1.29	39	0.4	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
W871095		1	11.8	1.36	32	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
W871096		4	13.4	1.40	58	0.5	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.7
W871097		6	13.7	1.34	103	4.6	0.74	0.005	0.073	0.007	0.32	5.5	0.55	0.11	1.7	1.1
W875956		4	21.6	2.30	81	0.4	0.02	<0.005	0.018	0.001	<0.05	0.6	<0.01	0.15	<0.5	0.6
W875957		1	22.0	2.23	81	0.4	0.02	<0.005	0.015	0.001	<0.05	0.3	<0.01	0.06	<0.5	0.8
W875958		7	22.2	2.20	77	0.3	0.02	<0.005	0.013	0.001	<0.05	0.4	0.01	0.07	<0.5	0.7
W875959		11	24.6	2.35	87	0.4	0.04	<0.005	0.015	0.002	<0.05	0.5	<0.01	0.08	<0.5	0.5
W875960		1	26.5	2.68	97	0.6	0.02	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.08	<0.5	0.9

***** 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: 30-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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
W871065		61	162	60	<1	102	<2	54	68	0.005	0.007	0.009	0.177
W871066		61	31	50	1	154	6	41	66	0.001	0.005	0.004	0.020
W871067		74	38	50	<1	221	3	47	99	0.001	0.005	0.008	0.157
W871068		66	245	50	<1	179	3	39	132	0.005	<0.005	0.011	0.375
W871069		69	117	50	<1	235	2	44	79	0.004	0.007	0.008	0.165
W871070		44	35	40	<1	84	<2	33	49	<0.001	0.025	0.006	0.032
W871071		76	33	40	<1	262	3	45	77	<0.001	0.006	0.008	0.038
W871072		67	70	40	1	282	3	29	83	0.002	<0.005	0.004	0.063
W871073		59	38	70	1	360	2	32	84	0.002	<0.005	0.006	0.034
W871074		87	87	30	<1	1040	2	30	132	0.008	<0.005	0.006	0.186
W871075		80	21	30	<1	1040	<2	31	107	0.001	<0.005	0.005	0.060
W871076		77	39	50	1	532	<2	38	73	<0.001	<0.005	0.006	0.070
W871077		76	72	30	<1	647	2	37	173	0.001	<0.005	0.005	0.102
W871078		81	147	30	<1	725	<2	35	82	0.001	<0.005	0.005	0.147
W871079		80	9	40	<1	538	2	41	80	0.001	<0.005	0.007	0.019
W871080		157	5650	40	2	2180	8	26	82	0.107	0.740	0.375	10.15
W871081		72	73	40	<1	328	<2	44	92	0.001	<0.005	0.006	0.144
W871082		57	125	20	<1	183	<2	45	89	0.003	0.013	0.017	0.103
W871083		57	150	30	1	137	<2	47	86	0.004	0.006	0.007	0.118
W871084		55	62	30	<1	192	5	34	86	0.001	<0.005	0.005	0.084
W871085		58	147	30	<1	124	<2	41	105	0.003	<0.005	0.002	0.336
W871086		59	45	30	<1	238	2	29	90	0.001	<0.005	0.004	0.077
W871087		57	52	30	<1	196	<2	34	95	0.001	<0.005	0.001	0.054
W871088		55	123	50	<1	144	<2	34	77	0.003	<0.005	0.003	0.075
W871089		45	49	50	<1	99	<2	33	70	0.001	0.005	0.005	0.054
W871090		50	75	40	<1	124	<2	42	95	0.002	<0.005	0.006	0.093
W871091		63	41	60	<1	268	<2	36	73	0.001	<0.005	0.007	0.064
W871092		57	23	30	<1	267	<2	35	74	0.001	<0.005	0.006	0.037
W871093		56	85	30	1	273	2	20	69	0.002	<0.005	0.003	0.179
W871094		72	31	40	1	398	<2	21	75	0.002	<0.005	0.005	0.057
W871095		75	29	30	<1	416	<2	29	76	0.001	<0.005	0.004	0.044
W871096		78	30	20	<1	380	<2	23	83	0.007	<0.005	0.004	0.044
W871097		114	4500	20	4	4340	28	12	109	0.093	0.318	0.606	4.03
W875956		60	179	20	<1	201	2	26	103	0.004	0.007	0.016	0.138
W875957		62	184	10	<1	205	<2	28	109	0.003	0.005	0.017	0.150
W875958		64	179	10	<1	221	<2	26	116	0.004	0.005	0.017	0.161
W875959		58	187	30	<1	164	3	30	108	0.004	<0.005	0.018	0.146
W875960		58	221	10	<1	144	<2	32	119	0.004	<0.005	0.021	0.172

***** 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: 30-MAR-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18054022

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		