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: 9-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042510

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-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 TB18042510

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
W870951		0.04	62.1	16.85	6.06	6.17	2.77	3.25	1.54	<0.01	0.49	0.12	0.15	0.05	0.07	1.21
W870952		0.08	41.6	9.21	15.25	15.65	10.90	0.59	0.23	0.10	0.69	0.14	0.12	<0.01	0.03	4.36
W870953		2.55	52.9	17.20	11.45	8.70	4.21	2.87	0.76	0.01	0.65	0.18	0.09	0.03	0.03	1.06
W870954		2.55	53.0	16.80	11.00	8.73	4.08	2.95	0.81	0.01	0.64	0.17	0.10	0.04	0.03	1.20
W870955		2.44	53.2	16.80	11.90	9.13	4.22	2.99	0.75	0.01	0.67	0.18	0.08	0.04	0.03	1.13
W870956		2.31	52.4	16.60	11.95	8.98	4.13	2.96	0.66	0.01	0.68	0.18	0.07	0.04	0.03	1.19
W870957		2.47	52.9	16.65	12.15	9.08	4.14	3.01	0.67	0.01	0.70	0.18	0.10	0.04	0.03	1.00
W870958		2.58	53.9	16.30	11.45	8.76	3.97	2.96	0.66	0.01	0.64	0.17	0.08	0.04	0.03	1.06
W870959		2.53	53.2	16.60	10.65	8.21	3.80	2.81	0.98	<0.01	0.63	0.16	0.09	0.03	0.04	1.69
W870960		2.58	53.8	16.90	10.90	8.56	3.92	2.85	0.93	<0.01	0.63	0.17	0.08	0.04	0.04	1.66
W870961		2.56	52.8	16.50	11.65	8.94	3.99	2.92	0.78	0.01	0.67	0.18	0.07	0.04	0.03	1.55
W870962		2.52	52.1	16.25	11.65	8.30	4.04	2.93	0.67	<0.01	0.65	0.17	0.08	0.04	0.03	2.10
W870963		2.57	53.0	16.20	11.85	8.80	4.00	2.87	0.74	0.01	0.68	0.18	0.08	0.04	0.03	1.40
W870964		2.33	53.8	16.25	11.45	8.48	3.89	2.91	0.98	0.01	0.66	0.17	0.09	0.04	0.04	1.29
W870965		2.57	52.2	16.35	11.70	8.73	3.99	3.04	0.71	<0.01	0.68	0.18	0.09	0.04	0.03	1.35
W870966		2.40	54.4	16.55	11.70	8.81	4.03	2.93	0.75	0.01	0.67	0.18	0.08	0.04	0.03	0.65
W870967		2.46	54.2	17.15	11.45	8.73	4.11	2.96	0.69	<0.01	0.67	0.18	0.08	0.04	0.03	0.88
W870968		2.62	52.3	16.90	11.05	8.61	3.99	2.94	0.63	0.01	0.64	0.17	0.08	0.03	0.03	1.04
W870969		2.65	52.1	16.40	11.70	9.02	4.11	3.11	0.74	0.01	0.65	0.17	0.08	0.04	0.02	1.58
W870970		2.50	50.6	16.00	11.40	10.55	3.85	2.86	0.72	<0.01	0.64	0.16	0.09	0.05	0.02	2.10
W870971		0.09	47.4	12.90	20.6	6.17	6.57	2.17	0.63	0.03	1.25	0.19	0.15	0.03	0.02	1.20
W870972		2.54	60.2	13.80	9.09	6.76	3.28	2.45	0.73	<0.01	0.53	0.14	0.07	0.03	0.02	1.04
W870973		2.60	55.9	16.90	10.90	8.49	3.98	2.98	0.71	<0.01	0.63	0.17	0.08	0.03	0.03	0.86
W870974		2.52	54.3	16.00	11.40	8.52	3.88	2.86	0.76	0.01	0.66	0.17	0.07	0.04	0.03	0.79
W870975		2.65	54.9	16.70	11.80	8.74	4.03	2.92	0.88	<0.01	0.68	0.18	0.09	0.04	0.03	0.99
W870976		2.44	53.5	16.25	11.45	8.69	3.93	2.88	0.71	<0.01	0.65	0.17	0.09	0.04	0.03	0.81
W870977		2.69	51.5	16.15	10.75	8.08	3.78	2.79	0.68	<0.01	0.63	0.16	0.08	0.03	0.03	0.76
W870978		2.58	53.8	16.45	11.65	8.75	3.98	2.94	0.71	<0.01	0.66	0.18	0.07	0.04	0.03	0.98
W870979		2.58	53.0	16.40	11.60	8.80	3.99	2.88	0.74	0.01	0.66	0.17	0.08	0.03	0.03	1.05
W870980		2.50	54.1	17.10	11.50	8.63	4.09	2.94	0.78	<0.01	0.66	0.18	0.09	0.04	0.03	0.73
W870981		2.48	51.8	16.30	10.85	8.21	3.83	2.79	0.74	<0.01	0.64	0.17	0.08	0.03	0.03	0.57
W870982		2.59	53.8	16.25	11.60	8.51	3.91	2.89	0.81	0.02	0.62	0.17	0.07	0.04	0.03	0.76
W870983		2.48	52.9	16.40	11.70	8.81	4.01	2.90	0.75	0.01	0.66	0.18	0.06	0.04	0.03	0.73
W870984		2.43	53.4	16.50	11.70	8.77	4.01	2.92	0.75	0.01	0.67	0.18	0.07	0.04	0.03	0.52
W870985		2.27	52.1	16.10	11.70	8.74	4.42	2.76	0.73	0.01	0.62	0.18	0.07	0.04	0.03	0.87
W870986		2.39	52.8	16.25	12.10	8.81	4.03	2.88	0.67	0.01	0.70	0.18	0.07	0.04	0.03	0.75
W870987		2.21	52.6	16.00	11.75	8.80	4.09	2.88	0.60	0.01	0.64	0.18	0.07	0.04	0.03	1.10
W870988		2.51	51.7	16.60	12.10	9.21	4.24	2.91	0.53	<0.01	0.68	0.18	0.07	0.04	0.03	0.81
W870989		2.41	52.0	16.80	12.15	9.25	4.30	2.87	0.48	<0.01	0.66	0.18	0.07	0.04	0.02	0.88
W870990		2.27	51.5	17.05	11.80	9.27	4.33	2.89	0.52	<0.01	0.67	0.18	0.06	0.04	0.03	1.09

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Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870951		100.83	0.03	0.02	595	28.9	10	0.70	3.94	2.39	0.93	17.2	3.77	<5	4.0	0.85
W870952		98.87	0.24	2.61	283	18.8	770	0.42	2.48	1.36	0.69	11.6	2.51	<5	1.9	0.52
W870953		100.14	0.06	0.04	248	20.0	40	0.99	2.11	1.25	0.87	20.8	2.00	<5	1.9	0.46
W870954		99.56	0.08	0.04	235	19.7	40	0.97	1.97	1.23	0.78	20.3	1.95	<5	1.7	0.44
W870955		101.13	0.09	0.04	240	19.8	40	1.40	2.18	1.38	0.80	19.6	2.32	<5	1.2	0.46
W870956		99.88	0.11	0.05	258	21.2	40	1.41	2.23	1.34	0.94	21.5	2.40	<5	1.7	0.51
W870957		100.66	0.06	0.05	260	20.6	30	1.30	2.16	1.39	0.90	19.8	2.44	<5	1.7	0.50
W870958		100.03	0.08	0.03	238	21.1	30	1.16	2.13	1.27	0.85	19.4	2.27	<5	1.8	0.46
W870959		98.89	0.15	0.05	367	22.3	40	1.27	2.26	1.39	0.86	21.3	2.58	<5	1.9	0.50
W870960		100.48	0.15	0.05	339	20.9	30	1.15	2.22	1.26	0.77	21.5	2.21	<5	1.9	0.48
W870961		100.13	0.14	0.04	306	22.9	30	1.10	2.32	1.43	0.91	20.4	2.42	<5	1.9	0.48
W870962		99.01	0.24	0.05	243	21.7	30	1.15	2.10	1.23	0.85	19.4	2.21	<5	2.1	0.43
W870963		99.88	0.13	0.09	239	21.5	40	1.30	2.12	1.49	0.77	19.7	2.13	<5	1.7	0.46
W870964		100.06	0.07	0.03	298	22.0	40	1.16	2.14	1.39	0.82	19.2	2.23	<5	1.8	0.46
W870965		99.09	0.12	0.08	239	21.2	30	0.98	2.15	1.35	0.86	19.2	2.33	<5	1.9	0.48
W870966		100.83	0.05	0.03	254	20.6	40	1.09	2.05	1.16	0.84	18.8	2.33	<5	1.4	0.48
W870967		101.17	0.07	0.05	246	18.2	30	0.90	1.98	1.17	0.79	19.1	1.98	<5	1.4	0.46
W870968		98.42	0.06	0.06	224	19.4	40	1.02	2.16	1.27	0.92	20.9	1.98	<5	1.5	0.47
W870969		99.73	0.13	0.03	213	19.7	30	0.91	2.12	1.35	0.83	19.5	2.10	<5	1.5	0.45
W870970		99.04	0.23	0.04	198.0	19.3	30	0.75	2.15	1.24	0.78	20.7	2.27	<5	1.3	0.46
W870971		99.31	0.08	1.76	207	23.5	240	0.82	2.50	1.34	1.28	17.5	2.78	<5	2.6	0.49
W870972		98.14	0.07	0.02	226	16.9	30	0.76	1.86	1.20	0.75	18.7	1.93	<5	1.2	0.41
W870973		101.66	0.09	0.03	236	21.5	30	1.05	2.06	1.21	0.82	20.0	2.38	<5	1.8	0.43
W870974		99.49	0.05	0.03	270	22.7	30	1.17	2.34	1.43	0.80	19.5	2.35	<5	1.6	0.49
W870975		101.98	0.05	0.04	292	23.0	30	1.09	2.35	1.48	0.81	19.5	2.50	<5	2.0	0.45
W870976		99.20	0.05	0.03	238	20.7	30	1.06	2.21	1.25	0.78	18.7	2.33	<5	1.4	0.44
W870977		95.42	0.05	0.04	257	21.9	40	1.01	2.27	1.27	0.90	21.7	2.31	<5	1.9	0.50
W870978		100.24	0.05	0.08	250	20.7	30	1.08	2.04	1.40	0.82	19.7	2.21	<5	1.8	0.46
W870979		99.44	0.06	0.05	260	20.4	30	1.13	2.13	1.35	0.85	19.1	2.17	<5	1.5	0.45
W870980		100.87	0.03	0.05	257	18.8	30	1.29	2.02	1.28	0.87	19.2	2.08	<5	1.9	0.42
W870981		96.04	0.04	0.06	280	21.1	30	1.17	2.14	1.32	0.82	20.6	2.56	<5	1.7	0.49
W870982		99.48	0.05	0.24	258	19.8	30	1.09	2.03	1.28	0.76	18.7	2.13	<5	1.4	0.41
W870983		99.18	0.07	0.09	268	21.0	30	1.05	2.16	1.40	0.88	19.4	2.28	<5	1.6	0.50
W870984		99.57	0.03	0.07	260	20.9	30	1.12	2.11	1.29	0.78	19.6	2.30	<5	1.6	0.44
W870985		98.37	0.05	0.10	262	21.2	80	1.47	2.05	1.48	0.83	20.3	2.28	<5	1.5	0.46
W870986		99.32	0.04	0.17	239	20.9	40	1.14	2.07	1.44	0.81	19.8	2.29	<5	2.1	0.46
W870987		98.79	0.07	0.06	238	17.4	40	0.96	2.00	1.19	0.78	19.1	1.95	<5	1.4	0.43
W870988		99.10	0.07	0.03	237	18.2	30	0.89	2.09	1.36	0.86	20.2	2.31	<5	1.2	0.48
W870989		99.70	0.09	0.06	214	17.3	30	0.94	2.05	1.20	0.75	20.2	2.02	<5	1.4	0.41
W870990		99.43	0.09	0.05	226	16.1	30	0.93	1.92	1.18	0.85	19.6	1.83	<5	1.2	0.39

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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
W870951		13.4	0.40	4.1	16.9	4.13	26.4	3.94	1	501	0.2	0.59	2.92	0.37	1.31	144
W870952		9.5	0.22	6.0	10.7	2.56	4.9	2.49	2	63.8	0.4	0.40	1.97	0.19	1.11	170
W870953		10.0	0.21	2.7	10.2	2.63	18.5	2.32	<1	344	0.2	0.32	1.69	0.19	0.49	230
W870954		9.8	0.20	2.8	10.1	2.60	21.2	2.31	<1	330	0.2	0.33	1.56	0.21	0.48	221
W870955		9.7	0.20	2.4	10.8	2.53	21.0	2.26	1	335	0.2	0.37	1.44	0.21	0.43	262
W870956		10.0	0.24	2.6	11.5	2.65	19.6	2.39	1	349	0.2	0.38	1.74	0.24	0.53	287
W870957		9.5	0.22	2.6	11.1	2.58	18.0	2.39	1	334	0.2	0.35	1.46	0.21	0.44	266
W870958		10.0	0.18	2.5	10.8	2.58	17.1	2.27	1	331	0.2	0.39	1.52	0.20	0.47	248
W870959		11.5	0.22	2.7	11.0	2.60	31.4	2.51	1	360	0.1	0.37	1.98	0.22	0.59	271
W870960		10.7	0.16	2.5	10.8	2.50	28.2	2.48	1	350	0.1	0.37	1.77	0.19	0.52	256
W870961		11.1	0.24	2.6	12.2	2.81	21.8	2.40	1	339	0.2	0.38	1.91	0.20	0.56	261
W870962		10.6	0.19	2.6	11.3	2.68	18.8	2.41	1	314	0.2	0.35	1.99	0.20	0.81	249
W870963		10.4	0.20	2.6	10.6	2.62	19.4	2.21	1	301	0.2	0.38	2.27	0.20	0.67	243
W870964		10.6	0.21	2.7	11.2	2.58	28.2	2.09	1	327	0.2	0.35	1.78	0.23	0.60	242
W870965		10.0	0.20	2.5	10.3	2.56	18.8	2.45	1	325	0.2	0.35	1.65	0.21	0.48	251
W870966		9.9	0.23	2.6	10.5	2.56	20.5	1.98	1	311	0.2	0.35	2.20	0.18	0.58	246
W870967		9.5	0.18	2.2	9.6	2.22	17.0	1.99	1	324	<0.1	0.32	1.32	0.18	0.42	256
W870968		10.0	0.19	2.3	9.8	2.43	17.2	2.33	1	344	0.1	0.35	1.28	0.19	0.43	269
W870969		9.2	0.20	2.2	10.9	2.44	21.6	2.09	1	360	0.1	0.34	1.21	0.22	0.38	254
W870970		9.3	0.18	2.1	10.4	2.36	23.1	2.14	1	438	0.1	0.31	1.11	0.18	0.35	246
W870971		11.6	0.17	6.5	13.7	2.96	17.5	2.98	4	256	0.3	0.44	1.38	0.17	0.47	122
W870972		8.5	0.17	2.0	9.0	2.12	24.8	1.89	1	310	<0.1	0.34	1.11	0.19	0.33	230
W870973		10.5	0.20	3.6	11.2	2.50	18.9	2.30	1	331	<0.1	0.37	2.03	0.19	0.60	243
W870974		10.9	0.23	2.6	11.4	2.76	22.1	2.47	1	325	0.2	0.39	1.81	0.23	0.54	248
W870975		11.0	0.21	2.6	12.1	2.83	25.2	2.33	1	330	0.2	0.36	2.12	0.22	0.69	256
W870976		10.0	0.21	2.4	10.6	2.57	19.1	2.24	1	305	0.2	0.34	1.76	0.20	0.61	238
W870977		11.1	0.21	3.4	11.4	2.61	20.2	2.42	1	351	0.1	0.39	1.81	0.22	0.53	274
W870978		9.8	0.20	2.5	10.9	2.53	18.8	2.21	1	321	0.2	0.35	1.79	0.20	0.52	245
W870979		10.0	0.21	2.3	10.9	2.45	19.4	2.29	1	295	0.2	0.35	1.57	0.18	0.51	243
W870980		9.9	0.20	2.5	9.7	2.37	19.4	2.07	1	314	0.1	0.34	1.44	0.17	0.45	242
W870981		10.9	0.22	2.8	11.0	2.54	20.4	2.64	1	334	0.1	0.34	1.55	0.18	0.47	257
W870982		9.4	0.19	2.5	10.3	2.39	21.2	2.15	1	303	0.2	0.29	1.69	0.17	0.48	224
W870983		10.0	0.21	2.6	10.7	2.52	20.4	2.36	1	325	0.2	0.37	1.75	0.20	0.52	259
W870984		10.0	0.23	2.5	10.6	2.59	19.8	2.10	1	322	0.2	0.35	1.48	0.21	0.68	258
W870985		10.2	0.22	2.6	10.9	2.64	21.0	2.38	1	338	0.2	0.36	1.81	0.19	0.50	261
W870986		9.9	0.20	2.4	10.6	2.50	17.0	2.35	1	324	0.2	0.37	1.66	0.20	0.48	266
W870987		8.4	0.20	2.0	9.2	2.13	14.8	1.87	1	322	0.1	0.28	1.10	0.18	0.37	267
W870988		8.9	0.21	2.2	10.0	2.27	11.9	1.90	1	344	0.1	0.36	0.96	0.20	0.30	279
W870989		8.2	0.20	1.9	9.2	2.21	10.3	2.18	<1	335	0.1	0.29	0.84	0.19	0.48	273
W870990		7.7	0.20	1.9	8.9	2.05	11.3	2.06	<1	339	0.1	0.34	0.72	0.18	0.24	282

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

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870951		10	23.4	2.66	139	1.0	0.05	<0.005	0.010	<0.001	0.13	0.2	<0.01	0.05	<0.5	<0.5
W870952		2	14.2	1.44	71	44.2	0.31	0.124	0.055	0.016	1.34	12.3	1.21	0.06	3.0	1.5
W870953		9	12.1	1.27	71	0.7	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.05	<0.5	0.6
W870954		2	11.8	1.24	60	0.9	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.05	<0.5	0.6
W870955		1	12.0	1.44	47	0.4	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.05	<0.5	0.7
W870956		1	12.5	1.30	63	0.3	0.02	<0.005	0.009	<0.001	<0.05	0.2	0.01	0.05	<0.5	0.8
W870957		1	12.2	1.48	60	0.3	0.02	<0.005	0.012	<0.001	<0.05	<0.2	0.01	0.05	<0.5	0.7
W870958		3	12.3	1.29	67	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.01	0.05	<0.5	0.7
W870959		2	13.4	1.22	63	0.3	0.02	<0.005	0.011	0.001	<0.05	<0.2	0.01	0.04	<0.5	0.5
W870960		1	12.8	1.31	59	0.4	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.04	<0.5	0.9
W870961		2	12.8	1.32	69	0.4	0.02	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	1.0
W870962		7	11.6	1.40	75	0.9	0.03	<0.005	0.011	<0.001	<0.05	0.2	0.01	0.05	<0.5	0.5
W870963		1	12.1	1.50	61	0.5	0.03	<0.005	0.012	<0.001	<0.05	<0.2	0.01	0.06	<0.5	0.9
W870964		1	12.0	1.25	65	0.3	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.8
W870965		1	12.3	1.35	73	0.5	0.02	<0.005	0.011	<0.001	<0.05	0.3	0.01	0.03	<0.5	0.9
W870966		1	11.3	1.30	51	0.8	0.01	<0.005	0.010	<0.001	<0.05	0.2	<0.01	0.07	<0.5	0.8
W870967		1	12.0	1.18	47	0.5	0.01	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	1.1
W870968		12	12.2	1.22	54	0.4	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.02	0.04	<0.5	0.9
W870969		2	11.8	1.34	55	0.6	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.8
W870970		1	11.7	1.29	46	0.5	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	1.0
W870971		3	13.4	1.25	98	4.4	0.78	0.011	0.064	0.004	0.31	5.0	0.51	0.09	1.9	1.7
W870972		4	11.1	1.10	44	0.4	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.8
W870973		1	12.2	1.32	60	0.4	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.7
W870974		5	12.5	1.47	63	0.6	0.02	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	1.0
W870975		3	12.4	1.51	71	0.7	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	0.8
W870976		2	11.5	1.38	54	0.2	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	0.9
W870977		8	13.3	1.47	68	0.4	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	1.0
W870978		1	11.6	1.27	68	0.4	0.02	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.04	<0.5	0.6
W870979		1	11.4	1.18	53	0.3	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.06	<0.5	0.9
W870980		<1	12.0	1.23	65	0.4	0.02	<0.005	0.010	<0.001	<0.05	0.2	0.01	0.06	<0.5	0.8
W870981		1	13.0	1.30	60	0.9	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.07	<0.5	0.8
W870982		1	10.8	1.13	49	0.6	0.04	<0.005	0.008	<0.001	<0.05	<0.2	0.05	0.08	<0.5	1.3
W870983		1	11.9	1.33	62	0.5	0.02	<0.005	0.011	0.001	<0.05	<0.2	0.01	0.07	<0.5	1.0
W870984		1	12.0	1.34	58	0.5	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.08	<0.5	0.9
W870985		1	12.2	1.36	54	0.3	0.02	<0.005	0.011	<0.001	<0.05	0.2	0.02	0.07	<0.5	0.8
W870986		1	12.1	1.39	80	0.2	0.02	<0.005	0.012	<0.001	<0.05	0.2	0.02	0.08	<0.5	1.3
W870987		1	10.8	1.16	53	0.5	0.02	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.7
W870988		1	11.4	1.24	46	0.2	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	1.2
W870989		1	11.0	1.29	48	0.3	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.04	<0.5	0.8
W870990		12	10.9	1.20	48	0.4	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.03	<0.5	1.1

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870951		15	100	10	2	10	10	17	66	<0.001	<0.005	<0.001	0.024
W870952		154	5710	40	3	2190	5	24	79	0.100	0.713	0.371	11.45
W870953		41	33	20	<1	24	3	22	99	<0.001	<0.005	<0.001	0.043
W870954		41	26	20	<1	22	6	26	93	<0.001	<0.005	<0.001	0.040
W870955		41	30	20	<1	21	7	24	95	<0.001	<0.005	0.001	0.042
W870956		39	28	10	<1	21	6	25	95	<0.001	<0.005	<0.001	0.050
W870957		42	31	10	<1	20	4	25	92	<0.001	<0.005	0.001	0.053
W870958		37	20	20	<1	22	5	26	92	<0.001	<0.005	<0.001	0.041
W870959		39	26	20	<1	18	4	25	90	<0.001	<0.005	<0.001	0.052
W870960		39	28	20	<1	19	3	25	92	<0.001	<0.005	<0.001	0.049
W870961		40	28	20	<1	19	7	23	92	<0.001	<0.005	<0.001	0.050
W870962		42	29	20	1	20	3	26	98	<0.001	<0.005	<0.001	0.078
W870963		41	45	20	1	21	5	25	93	<0.001	<0.005	<0.001	0.090
W870964		40	28	20	1	20	7	25	96	<0.001	<0.005	<0.001	0.038
W870965		41	42	20	<1	20	3	27	91	<0.001	<0.005	0.001	0.092
W870966		41	24	20	<1	20	<2	24	94	<0.001	<0.005	<0.001	0.039
W870967		40	25	20	1	20	3	26	91	<0.001	<0.005	<0.001	0.046
W870968		42	39	20	<1	20	2	24	90	<0.001	<0.005	<0.001	0.072
W870969		42	25	20	1	21	2	24	89	<0.001	<0.005	<0.001	0.035
W870970		41	28	20	1	20	4	27	86	<0.001	<0.005	<0.001	0.045
W870971		114	4490	20	5	4390	20	12	106	0.100	0.271	0.590	4.73
W870972		33	19	20	<1	21	4	23	76	<0.001	<0.005	<0.001	0.029
W870973		40	27	20	1	20	2	25	87	<0.001	<0.005	<0.001	0.052
W870974		39	26	20	1	20	4	25	93	<0.001	<0.005	<0.001	0.043
W870975		38	27	20	1	20	4	22	92	<0.001	<0.005	<0.001	0.045
W870976		41	23	20	1	18	4	26	92	<0.001	<0.005	<0.001	0.041
W870977		40	32	20	1	20	4	24	92	<0.001	<0.005	0.001	0.059
W870978		41	50	20	1	18	<2	25	92	<0.001	<0.005	<0.001	0.081
W870979		42	32	20	1	20	4	24	92	<0.001	<0.005	0.001	0.052
W870980		43	33	20	1	19	4	23	95	<0.001	<0.005	<0.001	0.057
W870981		40	30	20	<1	21	4	26	94	<0.001	<0.005	<0.001	0.057
W870982		46	97	20	1	20	4	24	92	<0.001	<0.005	<0.001	0.162
W870983		41	44	20	<1	20	4	27	94	<0.001	<0.005	<0.001	0.089
W870984		41	44	20	1	19	5	26	94	<0.001	<0.005	<0.001	0.064
W870985		44	51	20	<1	34	5	24	93	<0.001	<0.005	0.001	0.095
W870986		45	69	20	1	20	4	28	95	<0.001	<0.005	0.001	0.190
W870987		40	33	20	<1	20	4	26	88	<0.001	<0.005	<0.001	0.065
W870988		42	21	20	1	21	<2	26	94	<0.001	<0.005	<0.001	0.042
W870989		43	30	10	<1	20	5	24	94	<0.001	<0.005	<0.001	0.058
W870990		45	24	10	1	20	4	27	95	<0.001	<0.005	<0.001	0.045

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870991		0.04	61.8	16.50	5.84	6.14	2.68	3.32	1.46	<0.01	0.49	0.12	0.15	0.06	0.07	1.03
W870992		2.32	51.0	16.90	11.85	9.33	4.30	2.90	0.55	<0.01	0.68	0.18	0.06	0.03	0.02	1.96
W870993		2.40	50.5	17.65	12.55	9.91	4.66	2.66	0.50	<0.01	0.71	0.19	0.09	0.04	0.02	0.98
W870994		2.52	52.3	16.95	11.70	8.92	4.05	2.85	0.52	0.01	0.70	0.18	0.09	0.04	0.02	0.68
W870995		2.06	53.0	17.70	11.00	9.16	4.10	2.95	0.52	<0.01	0.60	0.17	0.08	0.04	0.03	0.75
W870996		2.49	52.1	16.75	12.40	9.19	4.06	2.92	0.39	<0.01	0.78	0.19	0.11	0.04	0.02	1.32
W870997		2.12	52.5	16.80	12.30	8.86	4.12	3.09	0.42	<0.01	0.76	0.19	0.09	0.04	0.02	1.71
W870998		2.43	48.6	16.65	13.05	10.20	4.30	2.67	0.35	<0.01	0.80	0.19	0.09	0.05	0.01	1.65
W870999		2.33	51.1	16.95	12.55	9.32	4.30	2.82	0.27	<0.01	0.75	0.19	0.09	0.04	0.02	1.10
W871000		2.37	46.6	18.40	13.70	8.61	7.85	1.37	0.50	0.03	0.67	0.32	0.01	0.01	0.01	2.31
W871001		2.20	44.1	17.40	17.20	7.82	8.27	0.89	0.30	0.03	1.37	0.36	0.01	0.01	0.01	1.40
W871002		2.32	45.9	19.00	13.60	9.83	7.77	1.00	0.26	0.03	0.69	0.29	0.01	0.01	0.01	1.75
W871003		1.75	46.6	14.25	14.65	10.30	9.58	0.69	0.25	0.03	0.34	0.31	0.02	0.01	0.01	1.61
W871004		1.77	44.0	15.15	14.70	12.30	8.82	0.56	0.32	0.03	0.90	0.25	0.05	<0.01	0.01	1.35
W871005		2.47	47.6	15.60	15.70	10.60	7.83	1.06	0.33	0.04	1.05	0.26	0.01	0.01	0.01	0.79
W871006		2.57	43.9	14.75	15.55	14.00	7.45	0.82	0.15	0.03	1.01	0.36	0.08	0.01	0.01	1.30
W871007		2.38	45.3	15.55	17.55	7.39	10.70	0.97	0.26	0.04	0.89	0.27	0.01	0.01	0.01	0.81
W871008		2.16	46.0	13.85	17.70	4.45	13.65	0.87	0.31	0.04	0.80	0.24	0.03	<0.01	0.01	2.15
W871009		2.53	47.2	14.95	15.65	7.28	9.39	1.23	0.20	0.04	0.61	0.27	0.03	0.01	0.01	2.69
W871010		2.31	47.6	13.55	13.65	12.20	8.48	1.02	0.33	0.04	0.64	0.30	0.01	0.01	0.01	1.59
W871011		0.08	41.6	9.14	15.05	15.90	10.85	0.58	0.22	0.11	0.69	0.14	0.11	0.01	0.03	3.63
W871012		2.25	47.9	13.90	15.70	11.05	7.09	1.59	0.20	0.03	0.86	0.24	0.03	0.01	0.01	1.49
W871013		2.39	53.8	13.80	13.10	8.15	7.11	1.96	0.47	0.03	0.79	0.18	0.01	0.01	0.02	1.48
W871014		2.45	48.3	14.00	15.25	9.99	8.72	1.49	0.16	0.04	0.88	0.20	0.02	<0.01	<0.01	1.85
W871015		2.23	49.5	13.40	15.35	9.99	8.48	1.63	0.23	0.04	0.89	0.24	0.02	0.01	0.01	2.11
W871016		2.44	49.9	13.50	16.40	6.61	9.71	2.08	0.14	0.03	0.92	0.26	0.03	0.01	0.01	1.13
W871017		2.38	46.1	14.65	15.35	7.22	9.15	2.55	0.19	0.03	1.16	0.25	0.04	0.01	0.01	1.54
W871018		2.34	48.2	15.90	15.80	5.83	9.22	3.31	0.27	0.04	1.36	0.24	0.06	0.02	0.04	0.68
W871019		2.42	46.7	15.90	15.95	6.25	10.90	2.77	0.40	0.03	1.21	0.27	0.09	0.02	0.06	1.41
W871020		2.88	46.8	14.80	15.80	7.13	10.10	2.59	0.27	0.04	1.22	0.32	0.05	0.01	0.03	1.67
W871021		2.46	40.9	16.00	17.00	14.85	7.50	0.26	0.36	0.04	1.38	0.34	0.07	0.01	0.02	2.05
W871022		2.67	42.7	12.75	13.90	16.80	8.46	0.58	0.52	0.03	0.93	0.37	0.08	<0.01	0.02	3.59
W871023		2.48	42.9	15.05	14.70	13.55	7.33	0.25	0.17	0.03	1.14	0.34	0.08	<0.01	0.01	2.95
W871024		0.04	61.1	16.10	5.82	6.06	2.66	3.28	1.46	<0.01	0.49	0.12	0.15	0.06	0.07	1.03
W875952		2.68	48.4	15.95	12.95	10.20	7.74	2.31	0.33	0.02	0.98	0.19	0.11	0.02	0.01	-0.11
W875953		2.61	48.5	15.85	13.75	9.89	8.20	2.29	0.28	0.01	1.00	0.19	0.10	0.02	0.01	-0.14
W875954		2.52	49.0	16.30	13.25	10.10	7.48	2.42	0.30	0.01	1.04	0.18	0.11	0.01	0.01	-0.28
W875955		2.54	48.9	16.15	13.70	10.00	7.69	2.36	0.31	0.01	1.05	0.19	0.12	0.01	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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870991		99.66	0.03	0.01	566	27.8	10	0.66	3.66	2.32	0.91	16.2	3.59	<5	3.5	0.77
W870992		99.76	0.15	0.06	182.5	16.5	30	0.77	1.91	1.14	0.76	19.0	1.82	<5	1.3	0.40
W870993		100.46	0.08	0.05	180.5	15.8	30	1.16	1.72	1.19	0.84	21.2	1.89	<5	1.1	0.40
W870994		99.01	0.10	0.04	201	18.7	40	1.04	1.93	1.27	0.81	19.8	1.99	<5	1.4	0.41
W870995		100.10	0.10	0.03	233	19.4	30	1.08	1.96	1.26	0.79	20.4	1.85	<5	1.7	0.43
W870996		100.27	0.12	0.07	171.0	18.9	30	0.82	2.17	1.24	0.86	20.3	2.16	<5	1.3	0.44
W870997		100.90	0.14	0.13	137.5	18.1	30	0.76	2.10	1.28	0.80	19.7	2.14	<5	1.3	0.45
W870998		98.61	0.16	0.14	121.0	16.2	30	0.69	2.08	1.30	0.80	21.2	1.93	<5	0.8	0.43
W870999		99.50	0.12	0.08	130.0	15.2	30	0.76	2.00	1.25	0.80	20.6	1.86	<5	1.0	0.44
W871000		100.39	0.10	0.17	118.5	3.2	230	1.69	0.35	0.29	0.37	20.7	0.24	<5	0.3	0.08
W871001		99.17	0.16	0.23	59.3	1.3	250	0.99	0.39	0.38	0.63	22.0	0.19	<5	0.3	0.09
W871002		100.15	0.15	0.62	57.2	3.7	210	1.78	0.49	0.37	0.45	21.6	0.31	<5	0.6	0.10
W871003		98.65	0.18	1.05	51.5	3.2	180	1.43	0.69	0.45	0.27	15.6	0.55	<5	0.6	0.15
W871004		98.44	0.19	0.25	71.4	6.8	250	1.22	1.60	1.20	0.62	18.2	1.29	<5	0.8	0.39
W871005		100.89	0.13	0.19	86.0	5.4	300	1.26	1.43	0.97	0.57	18.8	1.09	<5	0.8	0.34
W871006		99.42	0.18	0.18	87.5	10.8	220	0.99	2.97	1.95	0.93	19.9	2.56	<5	1.5	0.63
W871007		99.76	0.10	0.11	80.5	4.8	260	1.72	1.39	1.10	0.53	20.0	0.93	<5	0.9	0.32
W871008		100.10	0.11	0.20	64.8	3.4	250	1.77	1.11	1.10	0.37	18.0	0.82	<5	0.9	0.27
W871009		99.56	0.16	0.49	70.8	5.6	260	1.63	0.90	0.68	0.44	17.3	0.74	<5	0.8	0.21
W871010		99.43	0.18	0.18	87.5	4.5	260	1.17	2.02	1.27	0.56	15.9	1.59	<5	0.5	0.42
W871011		98.06	0.23	2.65	238	16.0	620	0.36	2.03	1.24	0.57	9.5	2.19	<5	1.6	0.38
W871012		100.10	0.16	0.90	56.8	5.9	220	0.78	2.24	1.58	0.70	16.0	1.89	<5	0.7	0.47
W871013		100.91	0.11	0.08	192.5	7.1	210	1.59	1.58	1.14	0.55	15.9	1.28	<5	1.0	0.35
W871014		100.90	0.15	0.12	35.0	2.0	260	1.23	1.87	1.21	0.51	15.7	1.30	<5	0.4	0.37
W871015		101.90	0.13	0.12	51.6	4.5	260	1.08	2.31	1.49	0.57	15.3	1.86	<5	0.6	0.51
W871016		100.73	0.11	0.01	63.0	2.3	230	0.64	1.52	1.19	0.58	15.9	0.90	<5	0.4	0.36
W871017		98.25	0.10	0.01	123.0	3.6	260	0.73	1.86	1.19	0.72	17.4	1.56	<5	0.6	0.41
W871018		100.97	0.10	0.01	305	4.2	270	0.93	0.99	0.72	0.73	18.5	0.81	<5	0.5	0.22
W871019		101.96	0.15	0.01	481	10.0	240	1.57	1.38	1.04	0.78	23.2	1.37	<5	0.7	0.30
W871020		100.83	0.14	0.03	258	6.5	250	1.28	1.77	1.37	0.90	18.7	1.42	<5	0.5	0.42
W871021		100.78	0.28	0.10	160.0	4.0	280	1.63	2.59	1.67	0.89	19.7	1.71	<5	0.6	0.53
W871022		100.73	0.75	0.11	136.0	12.1	190	1.85	2.91	1.92	0.77	16.0	2.39	<5	1.4	0.70
W871023		98.50	0.63	0.12	54.7	9.0	220	1.41	3.13	2.19	0.85	18.1	2.78	<5	1.7	0.72
W871024		98.40	0.03	<0.01	599	27.2	10	0.72	3.92	2.47	0.96	16.0	3.87	<5	3.5	0.83
W875952		99.10	0.02	<0.01	115.5	13.1	130	0.83	3.43	2.14	0.88	18.9	3.14	<5	2.0	0.75
W875953		99.95	0.01	<0.01	101.0	12.7	90	0.66	3.21	2.04	0.89	18.6	3.13	<5	1.8	0.71
W875954		99.93	0.01	<0.01	109.5	14.1	80	0.53	3.57	2.09	1.00	19.7	3.26	<5	1.9	0.74
W875955		100.27	<0.01	<0.01	114.0	15.9	80	0.69	3.64	2.25	1.06	19.8	3.38	<5	1.9	0.78

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870991		12.7	0.37	3.1	16.5	3.66	25.7	3.83	1	486	0.2	0.64	2.67	0.35	1.18	148
W870992		7.8	0.18	2.0	9.2	2.01	12.5	2.23	1	287	0.1	0.32	0.72	0.18	0.20	268
W870993		7.3	0.20	1.6	8.3	2.01	11.9	2.02	<1	354	0.1	0.30	1.02	0.19	0.26	285
W870994		8.8	0.19	2.2	9.6	2.27	13.1	2.38	<1	329	0.2	0.36	1.29	0.19	0.36	267
W870995		9.2	0.19	2.3	9.9	2.31	10.9	2.28	<1	343	0.2	0.31	1.20	0.20	0.37	216
W870996		9.1	0.20	2.3	10.2	2.37	7.2	2.33	<1	329	0.1	0.38	0.77	0.22	0.22	287
W870997		8.6	0.20	2.2	10.1	2.24	9.4	2.33	1	318	0.2	0.37	0.75	0.22	0.21	267
W870998		7.5	0.20	1.9	9.3	2.00	5.9	2.10	<1	378	0.1	0.33	0.58	0.21	0.17	292
W870999		7.1	0.20	1.7	8.6	1.90	3.9	1.96	<1	332	0.1	0.32	0.42	0.17	0.12	296
W871000		1.6	0.06	0.4	1.4	0.36	16.7	0.29	<1	115.5	<0.1	0.05	0.47	0.05	0.10	460
W871001		0.6	0.12	0.5	0.8	0.15	9.7	0.17	<1	80.8	<0.1	0.05	0.12	0.08	<0.05	533
W871002		1.9	0.10	0.5	1.6	0.41	9.1	0.34	<1	126.0	<0.1	0.06	0.58	0.06	0.21	334
W871003		1.5	0.10	0.4	1.7	0.39	8.7	0.48	<1	90.0	<0.1	0.12	0.52	0.09	0.17	271
W871004		3.2	0.21	1.2	4.0	0.85	10.5	1.27	<1	72.9	0.1	0.24	1.06	0.18	0.42	357
W871005		2.5	0.19	0.9	3.1	0.70	10.7	0.98	<1	102.0	0.1	0.25	0.58	0.17	0.18	398
W871006		4.5	0.29	2.3	7.5	1.52	4.1	2.08	<1	134.0	0.2	0.49	0.62	0.26	0.15	318
W871007		2.3	0.22	1.3	2.7	0.55	8.3	0.77	<1	89.4	0.1	0.20	0.35	0.18	0.08	347
W871008		1.6	0.23	1.2	1.7	0.42	8.6	0.58	<1	66.5	0.1	0.16	0.17	0.18	<0.05	342
W871009		2.8	0.15	1.0	2.5	0.61	6.0	0.63	<1	104.5	0.1	0.13	0.78	0.12	0.14	312
W871010		1.7	0.20	0.4	3.7	0.65	9.5	1.30	1	115.0	<0.1	0.32	0.23	0.21	0.07	352
W871011		7.8	0.16	5.1	8.5	2.00	4.1	2.03	2	53.7	0.3	0.38	1.54	0.16	0.73	144
W871012		2.5	0.24	1.3	4.3	0.81	3.8	1.40	<1	121.0	0.1	0.39	0.28	0.23	0.11	343
W871013		3.6	0.20	1.3	3.8	0.82	11.6	0.97	<1	107.0	0.1	0.25	0.94	0.16	0.26	317
W871014		0.8	0.20	0.3	2.1	0.34	4.6	0.87	<1	95.9	<0.1	0.27	0.17	0.18	0.07	382
W871015		1.9	0.24	0.8	3.6	0.66	6.1	1.43	<1	80.2	<0.1	0.36	0.30	0.22	0.08	375
W871016		1.0	0.22	1.2	1.9	0.32	2.9	0.82	<1	72.3	0.1	0.22	0.06	0.20	<0.05	356
W871017		1.5	0.22	1.7	3.2	0.59	3.7	1.15	<1	126.0	0.1	0.30	<0.05	0.20	<0.05	379
W871018		1.8	0.18	2.5	2.9	0.56	3.5	0.73	<1	186.5	0.1	0.13	<0.05	0.13	<0.05	402
W871019		4.1	0.20	6.4	6.0	1.32	11.8	1.51	<1	182.5	0.2	0.27	0.32	0.18	<0.05	355
W871020		2.6	0.26	3.2	4.6	0.91	6.7	1.30	<1	149.5	0.1	0.31	0.10	0.19	<0.05	362
W871021		1.4	0.28	2.2	3.9	0.64	10.9	1.50	1	85.1	0.1	0.38	0.06	0.26	<0.05	416
W871022		5.4	0.33	3.0	7.0	1.60	16.5	2.03	<1	55.1	0.2	0.48	1.54	0.31	0.49	285
W871023		3.5	0.35	3.2	7.2	1.27	5.6	2.36	<1	41.9	0.2	0.51	0.32	0.32	0.06	326
W871024		12.3	0.40	3.2	16.8	3.63	27.2	3.93	1	480	0.2	0.64	2.96	0.37	1.16	153
W875952		5.7	0.32	3.5	8.6	1.89	8.6	2.59	1	144.5	0.2	0.54	0.87	0.31	0.23	268
W875953		5.4	0.30	3.5	8.4	1.81	7.2	2.45	1	147.0	0.2	0.55	0.86	0.32	0.22	263
W875954		6.0	0.30	3.6	9.1	1.88	7.6	2.63	1	153.0	0.2	0.55	0.89	0.31	0.24	274
W875955		7.0	0.32	3.7	10.3	2.13	8.3	2.86	1	153.0	0.2	0.64	1.17	0.34	0.27	276

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870991		6	22.3	2.41	124	0.7	0.05	<0.005	0.010	<0.001	0.13	<0.2	0.01	0.04	<0.5	0.7
W870992		25	10.8	1.23	49	0.4	0.02	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
W870993		<1	10.7	1.08	39	0.6	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.9
W870994		1	11.4	1.18	50	0.6	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.06	<0.5	0.9
W870995		<1	11.7	1.35	70	0.5	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.8
W870996		<1	12.6	1.32	49	0.5	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.01	0.02	<0.5	1.0
W870997		<1	12.2	1.29	47	0.8	0.02	<0.005	0.009	0.001	<0.05	0.3	<0.01	<0.02	<0.5	0.9
W870998		<1	11.6	1.33	29	0.8	0.02	<0.005	0.011	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.9
W870999		6	11.2	1.28	34	0.4	0.01	<0.005	0.010	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.7
W871000		1	2.1	0.34	9	1.4	0.02	<0.005	0.010	0.001	<0.05	0.5	0.02	0.02	<0.5	0.7
W871001		3	2.6	0.57	8	0.6	0.01	<0.005	0.026	0.002	<0.05	0.6	0.02	0.03	<0.5	1.4
W871002		9	3.3	0.59	21	1.0	0.04	<0.005	0.012	0.003	<0.05	1.0	0.05	0.03	<0.5	0.6
W871003		3	4.6	0.62	18	0.5	0.07	<0.005	0.008	0.003	<0.05	2.2	0.07	0.04	<0.5	1.2
W871004		1	10.3	1.23	26	0.9	0.03	<0.005	0.009	0.001	<0.05	0.7	0.03	0.03	<0.5	0.9
W871005		<1	8.8	1.06	25	0.7	0.03	<0.005	0.011	0.001	<0.05	0.5	0.03	0.04	<0.5	0.8
W871006		<1	17.4	1.85	46	0.9	0.03	<0.005	0.011	0.001	<0.05	0.5	0.03	0.02	<0.5	0.9
W871007		10	8.7	1.28	27	1.0	0.03	<0.005	0.012	0.002	<0.05	0.5	0.01	0.04	<0.5	0.9
W871008		3	7.8	1.41	29	0.6	0.03	<0.005	0.017	0.001	<0.05	0.6	0.02	0.03	<0.5	0.7
W871009		7	6.0	0.87	23	0.6	0.08	<0.005	0.019	0.001	0.06	1.1	0.11	0.02	<0.5	0.8
W871010		<1	12.1	1.34	16	0.6	0.05	<0.005	0.010	0.001	<0.05	0.6	0.07	0.02	<0.5	1.3
W871011		<1	11.5	1.12	66	43.6	0.31	0.133	0.050	0.015	1.28	12.1	1.14	0.06	2.7	2.0
W871012		3	13.4	1.44	24	0.2	0.10	<0.005	0.015	0.002	<0.05	2.0	0.15	0.04	<0.5	1.1
W871013		<1	9.1	1.20	35	0.5	0.04	<0.005	0.012	0.001	<0.05	0.5	0.04	0.05	<0.5	0.6
W871014		<1	9.8	1.17	9	0.8	0.02	<0.005	0.014	0.001	<0.05	0.5	0.07	<0.02	<0.5	0.7
W871015		<1	12.9	1.49	16	0.9	0.05	<0.005	0.012	0.002	<0.05	0.6	0.08	<0.02	<0.5	0.8
W871016		1	8.7	1.22	13	0.3	0.05	<0.005	0.014	<0.001	<0.05	<0.2	0.06	<0.02	<0.5	0.8
W871017		2	10.5	1.34	16	0.4	0.02	<0.005	0.018	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
W871018		4	5.8	0.94	17	0.3	0.01	<0.005	0.021	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W871019		<1	8.5	1.23	25	0.7	0.02	<0.005	0.022	0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W871020		<1	11.0	1.52	18	0.7	0.01	<0.005	0.016	0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W871021		2	14.7	1.64	18	0.3	0.01	<0.005	0.017	0.002	<0.05	0.3	0.01	<0.02	<0.5	0.5
W871022		2	18.5	1.97	47	0.6	0.01	<0.005	0.011	0.001	<0.05	0.3	0.01	0.02	<0.5	0.7
W871023		<1	20.0	2.14	61	0.5	0.01	<0.005	0.014	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.6
W871024		5	22.8	2.59	122	0.7	0.04	<0.005	0.007	<0.001	0.12	<0.2	<0.01	0.04	<0.5	<0.5
W875952		<1	19.3	1.91	72	0.3	0.01	<0.005	0.012	<0.001	<0.05	0.2	<0.01	0.07	<0.5	<0.5
W875953		<1	18.5	2.03	66	0.3	0.01	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.06	<0.5	<0.5
W875954		<1	19.5	1.97	73	0.3	0.01	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W875955		<1	20.6	2.22	75	0.2	0.02	<0.005	0.013	<0.001	<0.05	0.2	<0.01	0.07	<0.5	<0.5

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042510

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
W870991		14	93	10	2	8	10	16	61	<0.001	<0.005	0.001	0.027
W870992		41	25	20	1	21	5	26	93	<0.001	<0.005	0.001	0.049
W870993		45	25	10	1	22	4	28	100	<0.001	<0.005	0.001	0.048
W870994		43	24	10	<1	19	4	26	104	<0.001	<0.005	<0.001	0.045
W870995		40	21	10	<1	23	5	22	93	<0.001	<0.005	<0.001	0.042
W870996		42	35	10	1	17	2	28	93	<0.001	<0.005	<0.001	0.072
W870997		44	48	20	<1	20	3	31	96	<0.001	<0.005	<0.001	0.140
W870998		46	41	20	<1	22	2	33	105	<0.001	<0.005	<0.001	0.158
W870999		47	61	10	<1	20	2	34	109	<0.001	<0.005	<0.001	0.105
W871000		79	230	20	<1	154	<2	42	108	<0.001	0.006	0.005	0.374
W871001		89	464	30	<1	160	6	66	155	0.002	0.005	0.004	0.403
W871002		92	384	10	<1	228	5	43	104	0.001	0.005	0.006	0.811
W871003		105	1260	10	<1	303	<2	35	128	0.001	0.008	0.014	1.830
W871004		58	250	10	<1	135	2	39	105	0.001	0.005	0.004	0.460
W871005		68	177	10	<1	167	<2	48	129	0.001	0.006	0.005	0.402
W871006		56	280	10	<1	125	3	38	133	0.002	<0.005	0.003	0.474
W871007		66	176	20	<1	142	<2	24	154	0.003	<0.005	0.002	0.291
W871008		66	234	40	<1	144	<2	36	137	<0.001	<0.005	0.002	0.437
W871009		69	879	30	<1	187	<2	36	134	0.025	0.005	0.005	1.070
W871010		60	485	10	<1	151	4	49	127	0.014	0.021	0.025	0.502
W871011		158	5870	40	2	2250	9	25	80	0.106	0.731	0.363	11.15
W871012		82	666	10	<1	314	7	51	131	0.009	0.019	0.030	1.690
W871013		52	305	20	<1	101	<2	44	119	0.005	0.021	0.026	0.315
W871014		59	405	30	1	125	<2	54	117	0.008	0.026	0.031	0.416
W871015		68	386	30	1	145	<2	57	134	0.009	0.028	0.033	0.481
W871016		61	215	10	<1	118	<2	42	128	0.007	0.023	0.028	0.104
W871017		57	119	20	<1	137	<2	38	121	0.002	<0.005	0.004	0.054
W871018		59	100	20	<1	155	<2	33	129	<0.001	<0.005	<0.001	0.044
W871019		56	105	20	<1	140	<2	22	136	<0.001	<0.005	<0.001	0.050
W871020		53	120	20	<1	141	<2	26	130	<0.001	<0.005	<0.001	0.090
W871021		61	162	30	<1	156	<2	49	130	<0.001	<0.005	0.001	0.210
W871022		45	117	20	<1	99	<2	33	104	0.001	<0.005	<0.001	0.294
W871023		49	138	30	1	114	<2	40	111	<0.001	<0.005	0.001	0.301
W871024		13	91	10	2	4	4	16	63	0.087	0.309	0.595	4.58
W875952		57	164	10	<1	180	<2	28	100	0.001	0.005	0.014	0.111
W875953		63	159	10	1	203	<2	25	101	0.001	0.007	0.015	0.133
W875954		59	172	10	<1	183	<2	27	101	0.002	0.007	0.015	0.130
W875955		64	189	10	<1	202	<2	27	108	0.002	0.008	0.016	0.124

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

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
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THUNDER BAY ON P7B 2R2

Finalized Date: 9-MAR-2018
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CERTIFICATE OF ANALYSIS TB18042510

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		