ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18034376

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-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 TB18034376

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
W870015		0.04	60.6	16.20	5.90	6.15	2.70	3.28	1.48	<0.01	0.49	0.12	0.15	0.05	0.07	0.98
W870016		0.08	41.7	9.10	15.35	16.15	10.85	0.61	0.24	0.11	0.72	0.15	0.13	<0.01	0.04	3.89
W870017		2.23	73.4	14.10	3.52	2.84	1.05	3.79	1.34	<0.01	0.29	0.09	0.08	0.02	0.04	0.98
W870018		2.30	74.8	13.85	3.35	1.69	1.33	3.01	1.90	<0.01	0.33	0.06	0.07	0.01	0.05	1.54
W870019		2.40	76.2	13.25	2.62	1.43	0.97	2.80	2.03	<0.01	0.34	0.05	0.06	0.01	0.05	1.30
W870020		2.38	74.1	13.35	2.92	1.62	0.94	3.39	1.88	<0.01	0.29	0.04	0.08	0.01	0.04	1.34
W870021		2.38	71.6	13.25	3.06	2.12	1.30	3.36	1.68	<0.01	0.30	0.06	0.08	0.01	0.04	1.47
W870022		2.35	73.4	13.70	3.05	2.18	1.13	3.57	1.58	<0.01	0.29	0.05	0.10	0.01	0.05	1.44
W870023		2.37	73.6	13.65	3.17	1.62	1.23	4.20	1.41	<0.01	0.30	0.05	0.07	0.01	0.04	1.42
W870024		2.41	72.7	12.75	2.73	2.62	1.27	3.63	1.43	<0.01	0.27	0.06	0.09	0.01	0.04	1.38
W870025		2.31	74.4	13.55	3.18	1.66	1.12	3.27	1.82	<0.01	0.31	0.05	0.07	0.01	0.05	1.11
W870026		2.31	73.0	13.80	3.70	1.71	1.23	3.23	2.09	<0.01	0.37	0.06	0.07	0.02	0.05	1.23
W870027		2.49	73.2	13.70	3.21	3.50	1.12	3.60	1.11	<0.01	0.29	0.07	0.08	0.01	0.04	1.04
W870028		2.35	73.9	13.95	3.11	2.98	0.72	3.94	1.25	<0.01	0.30	0.06	0.10	0.02	0.04	0.88
W870029		2.03	75.3	13.10	2.62	2.54	0.92	3.57	1.45	<0.01	0.30	0.05	0.09	0.01	0.04	0.85
W870030		2.31	70.0	12.75	3.09	4.94	1.83	2.80	1.75	<0.01	0.27	0.10	0.09	0.01	0.04	1.26
W870031		2.39	74.6	12.80	2.92	2.47	1.14	2.97	1.87	<0.01	0.28	0.06	0.08	0.01	0.04	1.31
W870032		2.29	73.6	13.70	2.57	2.84	1.29	2.98	1.58	<0.01	0.29	0.06	0.09	0.01	0.04	1.56
W870033		2.46	73.5	13.60	2.84	2.53	1.35	2.52	1.89	<0.01	0.30	0.06	0.08	0.01	0.05	1.36
W870034		2.49	75.7	12.65	2.66	2.85	1.42	2.22	1.73	<0.01	0.29	0.07	0.09	0.01	0.04	1.29
W870035		0.08	47.5	12.70	20.7	6.29	6.66	2.22	0.64	0.03	1.26	0.20	0.15	0.02	0.02	1.19
W870036		2.49	75.5	12.30	2.38	2.28	1.09	2.27	1.82	<0.01	0.28	0.06	0.07	<0.01	0.05	1.23
W870037		2.44	73.9	13.20	3.08	2.60	1.30	2.44	1.64	<0.01	0.29	0.06	0.09	<0.01	0.05	1.35
W870038		2.28	72.2	14.35	2.73	3.22	1.50	2.84	1.19	<0.01	0.26	0.06	0.07	<0.01	0.02	1.60
W870039		2.32	70.4	14.35	3.34	3.29	1.86	2.55	1.40	<0.01	0.27	0.07	0.06	<0.01	0.02	1.75
W870040		2.29	71.3	13.80	3.18	4.49	2.02	2.62	1.10	<0.01	0.25	0.08	0.06	<0.01	0.02	1.36
W870041		2.47	73.1	14.40	2.67	2.62	1.31	3.03	1.63	<0.01	0.28	0.05	0.07	<0.01	0.03	1.45
W870042		2.46	69.3	14.10	3.47	4.23	2.26	3.03	1.54	0.01	0.33	0.07	0.12	0.03	0.05	2.37
W870043		2.36	59.8	15.00	4.81	6.77	4.60	3.64	2.02	0.01	0.41	0.09	0.20	0.09	0.09	3.22
W870044		2.34	73.2	13.30	3.63	2.83	2.02	2.70	1.88	<0.01	0.31	0.06	0.11	0.02	0.06	1.83
W870045		2.47	74.7	13.85	3.17	2.24	1.03	3.66	1.49	<0.01	0.30	0.06	0.08	0.02	0.04	0.92
W870046		2.36	73.1	13.90	3.78	2.40	1.00	3.89	1.35	<0.01	0.30	0.07	0.10	0.02	0.04	0.98
W870047		2.60	74.1	12.90	3.44	2.72	1.71	2.82	1.63	<0.01	0.31	0.06	0.11	0.01	0.05	1.54
W870048		2.33	74.2	13.65	2.98	2.40	1.51	3.28	2.06	<0.01	0.30	0.06	0.10	0.02	0.04	1.05
W870049		2.30	74.2	13.30	2.91	2.22	1.07	3.47	1.82	<0.01	0.30	0.05	0.06	0.01	0.04	1.15
W870050		2.37	73.5	12.95	2.21	2.40	1.00	3.56	1.61	<0.01	0.28	0.05	0.09	0.01	0.04	1.85
W870051		2.32	74.3	13.10	2.93	2.37	0.87	3.22	1.54	<0.01	0.28	0.07	0.08	0.01	0.03	1.08
W870052		2.16	75.4	12.00	2.71	2.34	1.16	2.35	1.58	<0.01	0.25	0.06	0.08	0.01	0.03	1.46
W870053		2.17	75.2	11.15	3.32	1.87	1.05	2.84	1.32	<0.01	0.22	0.08	0.10	0.01	0.02	0.84
W870054		2.21	75.2	11.75	2.97	2.21	0.77	3.53	1.14	<0.01	0.24	0.06	0.07	0.01	0.02	0.97

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Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870015		98.17	0.03	0.02	542	28.6	10	0.64	3.62	2.40	0.84	15.2	3.64	<5	3.3	0.84
W870016		99.04	0.24	2.56	280	23.5	730	0.30	2.63	1.58	0.81	10.1	2.68	<5	1.9	0.55
W870017		101.54	0.10	0.06	373	58.2	20	1.37	1.20	0.69	0.75	18.1	1.80	<5	3.6	0.23
W870018		101.99	0.06	0.06	459	54.9	20	1.48	0.92	0.37	0.66	17.4	1.66	<5	3.6	0.17
W870019		101.11	0.07	0.05	428	54.4	20	2.03	0.90	0.37	0.68	15.9	1.54	<5	3.9	0.18
W870020		100.00	0.10	0.07	380	52.9	20	1.66	0.93	0.38	0.67	16.2	1.47	<5	3.5	0.16
W870021		98.33	0.13	0.04	346	49.8	10	1.31	0.95	0.47	0.69	16.1	1.62	<5	3.3	0.16
W870022		100.55	0.11	0.06	403	55.0	20	1.13	0.97	0.41	0.64	17.3	1.54	<5	3.6	0.15
W870023		100.77	0.03	0.05	324	59.7	20	1.06	0.98	0.41	0.70	16.1	1.70	<5	3.4	0.16
W870024		98.98	0.07	0.06	298	45.8	10	0.61	0.86	0.43	0.63	13.9	1.33	<5	2.8	0.15
W870025		100.60	0.02	0.07	361	51.0	20	1.00	0.92	0.40	0.71	15.8	1.45	<5	3.3	0.16
W870026		100.56	0.04	0.07	412	56.0	20	1.42	0.91	0.43	0.64	16.7	1.49	<5	3.8	0.17
W870027		100.97	0.14	0.08	299	49.8	20	0.91	0.93	0.40	0.65	16.6	1.51	<5	3.2	0.18
W870028		101.25	0.10	0.10	349	53.1	30	0.86	0.97	0.50	0.58	17.4	1.57	<5	3.4	0.18
W870029		100.84	0.09	0.06	305	43.4	20	0.94	0.98	0.46	0.57	16.1	1.37	<5	3.4	0.16
W870030		98.93	0.17	0.08	333	48.1	20	0.90	1.03	0.51	0.70	16.7	1.57	<5	3.4	0.18
W870031		100.55	0.10	0.10	365	42.2	20	1.13	0.92	0.45	0.59	15.8	1.39	<5	3.3	0.16
W870032		100.61	0.09	0.06	371	45.5	20	1.04	0.92	0.49	0.55	17.8	1.43	<5	3.4	0.17
W870033		100.09	0.06	0.05	404	46.7	20	1.52	0.93	0.48	0.64	17.9	1.37	<5	3.9	0.17
W870034		101.02	0.08	0.04	364	43.3	20	1.44	0.89	0.42	0.61	16.6	1.40	<5	3.4	0.18
W870035		99.58	0.07	1.75	226	28.1	240	1.01	2.54	1.44	1.15	17.0	2.81	<5	2.4	0.52
W870036		99.33	0.08	0.05	467	43.1	20	2.18	0.88	0.41	0.62	18.0	1.37	<5	3.5	0.15
W870037		100.00	0.06	0.08	527	49.8	20	2.11	0.91	0.42	0.73	20.1	1.64	<5	4.1	0.17
W870038		100.04	0.06	0.02	192.0	30.3	20	1.57	0.88	0.39	0.58	18.8	1.34	<5	3.8	0.14
W870039		99.36	0.08	0.08	231	25.6	20	1.54	0.71	0.34	0.61	18.6	1.36	<5	4.0	0.14
W870040		100.28	0.10	0.08	207	29.5	20	2.12	0.89	0.38	0.57	17.3	1.36	<5	3.4	0.15
W870041		100.64	0.04	0.07	325	36.3	20	1.75	0.91	0.39	0.57	18.5	1.40	<5	4.0	0.15
W870042		100.91	0.25	0.10	530	65.0	40	1.71	1.33	0.62	0.96	19.9	2.40	<5	4.0	0.23
W870043		100.75	0.44	0.31	843	89.0	100	2.72	2.01	0.89	1.61	19.3	3.88	<5	3.5	0.34
W870044		101.95	0.14	0.09	493	61.4	30	1.41	1.22	0.53	0.93	17.0	2.16	<5	3.6	0.21
W870045		101.56	0.05	0.02	359	51.2	20	1.08	0.92	0.47	0.62	18.0	1.50	<5	3.9	0.17
W870046		100.93	0.06	0.07	365	52.3	30	1.25	1.03	0.60	0.68	18.8	1.63	<5	3.8	0.21
W870047		101.40	0.16	0.15	451	55.4	30	2.09	1.06	0.49	0.78	17.0	1.91	<5	3.6	0.18
W870048		101.65	0.08	0.09	356	54.2	30	1.66	1.10	0.51	0.83	17.1	1.82	<5	3.5	0.19
W870049		100.60	0.10	0.08	344	53.2	20	1.49	0.90	0.42	0.71	16.6	1.64	<5	3.9	0.18
W870050		99.55	0.24	0.07	351	47.3	20	1.31	0.94	0.45	0.66	16.3	1.56	<5	3.5	0.18
W870051		99.88	0.09	0.07	293	47.8	20	1.22	0.94	0.50	0.63	16.5	1.49	<5	3.6	0.18
W870052		99.43	0.10	0.04	299	42.0	20	1.28	0.85	0.44	0.54	15.1	1.38	<5	3.0	0.16
W870053		98.02	0.05	0.09	187.5	40.1	10	1.51	0.88	0.41	0.53	14.7	1.28	<5	2.8	0.16
W870054		98.94	0.08	0.09	197.5	44.9	20	0.90	0.97	0.45	0.58	15.4	1.51	<5	3.2	0.16

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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
W870015		12.8	0.40	3.1	16.2	3.84	26.2	3.72	1	475	0.2	0.56	2.76	0.36	1.24	145
W870016		11.4	0.23	6.3	12.2	2.91	4.9	2.79	2	66.5	0.4	0.43	2.67	0.23	0.96	171
W870017		32.4	0.09	4.8	18.5	5.73	37.0	2.50	1	210	0.4	0.21	5.65	0.10	0.77	33
W870018		30.6	0.05	4.1	18.4	5.65	35.4	2.50	1	104.5	0.3	0.20	5.65	0.05	0.65	36
W870019		30.4	0.06	4.8	18.6	5.42	36.3	2.42	1	113.0	0.4	0.18	5.55	0.05	0.77	37
W870020		29.1	0.05	4.4	17.3	5.40	36.8	2.36	1	131.5	0.4	0.19	5.20	0.05	0.83	31
W870021		27.5	0.05	4.1	16.5	5.10	31.7	2.22	1	126.5	0.3	0.18	4.90	0.04	0.66	32
W870022		29.8	0.07	4.5	18.1	5.61	32.1	2.41	1	142.0	0.4	0.19	4.85	0.06	0.78	31
W870023		33.2	0.05	4.1	19.2	5.91	33.9	2.61	1	116.0	0.3	0.18	5.15	0.05	0.68	31
W870024		25.7	0.05	3.6	14.7	4.63	28.1	2.06	1	81.3	0.3	0.19	4.27	0.05	0.67	26
W870025		28.1	0.05	4.1	17.0	5.00	31.6	2.48	1	143.0	0.3	0.19	5.10	0.04	0.63	32
W870026		30.6	0.06	4.8	18.2	5.63	38.6	2.46	1	142.0	0.3	0.20	5.56	0.06	0.64	38
W870027		27.3	0.06	4.2	16.5	5.01	27.4	2.28	1	121.0	0.4	0.20	4.89	0.06	0.74	29
W870028		28.7	0.07	4.4	17.6	5.37	30.7	2.40	1	153.5	0.3	0.20	5.31	0.07	0.66	32
W870029		23.9	0.06	4.6	14.6	4.38	32.4	2.06	1	130.5	0.3	0.17	4.91	0.07	0.64	31
W870030		26.3	0.07	4.2	16.1	4.78	37.1	2.15	1	111.0	0.4	0.18	4.80	0.08	1.00	30
W870031		22.7	0.06	4.3	13.8	4.36	37.7	2.08	1	102.5	0.4	0.17	4.65	0.06	0.92	31
W870032		24.5	0.06	4.4	15.2	4.64	30.4	2.16	1	85.2	0.4	0.20	5.00	0.06	0.80	32
W870033		25.7	0.07	4.7	15.3	4.67	39.3	2.17	1	94.3	0.5	0.18	5.19	0.07	1.03	34
W870034		23.7	0.06	4.6	14.4	4.40	37.1	2.13	1	91.8	0.4	0.18	4.77	0.07	0.74	33
W870035		13.4	0.21	6.8	14.7	3.60	16.3	3.17	4	272	0.4	0.42	1.90	0.20	5.07	119
W870036		24.6	0.07	4.2	15.0	4.54	40.6	2.08	2	89.0	0.3	0.17	5.00	0.06	1.09	30
W870037		28.3	0.07	4.3	17.4	5.31	39.7	2.46	1	112.0	0.3	0.20	5.79	0.06	8.67	33
W870038		17.4	0.06	4.1	11.4	3.19	33.0	1.87	4	107.0	0.4	0.17	3.10	0.06	17.00	25
W870039		15.2	0.05	3.8	9.9	2.78	36.4	1.74	<1	82.3	0.3	0.14	2.41	0.04	0.66	25
W870040		17.3	0.05	3.8	11.1	3.17	35.2	1.90	1	79.7	0.4	0.18	2.99	0.05	0.86	23
W870041		20.9	0.05	4.1	12.8	3.86	38.4	1.93	1	105.0	0.3	0.18	3.83	0.05	0.86	28
W870042		35.3	0.08	5.0	26.4	7.43	37.2	3.80	1	323	0.4	0.27	6.55	0.08	1.54	46
W870043		44.8	0.11	6.3	42.8	11.10	52.8	6.82	1	790	0.3	0.45	8.97	0.11	2.87	73
W870044		33.7	0.06	7.4	24.2	6.72	38.7	3.55	1	252	0.3	0.27	5.66	0.07	1.10	41
W870045		28.8	0.06	4.7	17.5	5.24	31.0	2.54	1	183.0	0.4	0.20	5.39	0.05	0.71	32
W870046		29.3	0.08	5.1	18.6	5.40	32.0	2.62	1	209	0.4	0.21	5.22	0.08	0.81	33
W870047		30.6	0.06	4.9	20.7	5.99	39.6	3.30	1	181.0	0.4	0.22	5.67	0.06	0.92	40
W870048		29.2	0.07	4.4	20.2	5.72	46.5	2.99	1	199.5	0.3	0.23	5.35	0.07	0.82	36
W870049		29.6	0.05	4.3	18.8	5.54	37.4	2.76	1	163.5	0.3	0.21	5.17	0.06	0.73	32
W870050		26.4	0.06	4.4	17.1	4.89	31.9	2.27	1	175.0	0.4	0.20	5.15	0.06	0.78	31
W870051		27.0	0.06	4.4	16.4	5.00	36.7	2.49	1	127.0	0.4	0.18	4.86	0.06	1.14	31
W870052		23.7	0.05	3.9	14.5	4.34	35.6	2.14	1	93.6	0.4	0.19	4.31	0.06	1.15	26
W870053		22.2	0.06	4.1	13.9	4.12	33.0	2.08	1	96.5	0.4	0.18	4.10	0.06	0.96	25
W870054		25.0	0.06	4.4	16.0	4.66	23.2	2.45	1	96.2	0.4	0.20	4.61	0.06	0.77	27

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870015		5	22.2	2.55	118	0.8	0.05	<0.005	0.010	0.001	0.13	<0.2	<0.01	0.05	<0.5	<0.5
W870016		1	14.8	1.36	79	48.7	0.30	0.126	0.050	0.015	1.23	11.8	1.20	0.06	2.6	1.7
W870017		<1	6.1	0.61	152	0.2	0.01	<0.005	0.013	<0.001	<0.05	0.2	<0.01	0.12	<0.5	<0.5
W870018		1	4.4	0.33	158	0.2	0.01	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W870019		1	4.1	0.30	166	0.3	0.01	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.08	<0.5	<0.5
W870020		1	4.2	0.33	145	0.3	0.01	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W870021		1	4.7	0.36	138	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W870022		<1	4.8	0.37	145	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W870023		<1	4.6	0.34	141	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870024		1	4.3	0.41	115	0.9	0.04	0.007	0.006	<0.001	0.08	<0.2	0.04	0.02	<0.5	<0.5
W870025		<1	4.0	0.29	143	0.3	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.11	<0.5	<0.5
W870026		<1	4.6	0.39	161	0.2	0.01	0.008	<0.005	<0.001	<0.05	<0.2	0.02	0.10	<0.5	<0.5
W870027		<1	5.0	0.43	130	0.4	0.01	0.007	0.005	<0.001	<0.05	0.2	<0.01	0.09	<0.5	<0.5
W870028		<1	5.0	0.50	141	0.3	0.01	0.014	0.006	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W870029		1	4.7	0.42	138	0.3	0.01	<0.005	0.006	0.001	<0.05	<0.2	<0.01	0.12	<0.5	<0.5
W870030		<1	5.8	0.50	134	0.4	0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W870031		1	4.5	0.39	133	0.5	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W870032		1	4.8	0.41	142	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W870033		1	4.9	0.43	159	0.2	0.01	0.006	0.005	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W870034		1	4.6	0.39	141	0.4	0.01	0.005	0.005	<0.001	<0.05	0.2	<0.01	0.09	<0.5	<0.5
W870035		4	13.9	1.29	97	4.7	1.11	0.011	0.066	0.005	0.35	5.0	0.69	0.10	1.8	1.8
W870036		1	4.5	0.40	138	0.3	0.02	0.007	<0.005	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W870037		1	4.9	0.38	167	0.3	0.01	0.005	0.005	<0.001	<0.05	<0.2	0.02	0.08	<0.5	<0.5
W870038		1	4.4	0.35	152	0.3	0.01	0.006	0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W870039		<1	3.7	0.27	161	0.4	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W870040		1	4.4	0.32	141	0.4	0.01	0.006	0.007	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W870041		1	4.2	0.35	164	0.4	0.01	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W870042		3	6.3	0.49	158	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W870043		2	9.2	0.66	131	0.3	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W870044		1	5.8	0.48	141	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870045		1	4.5	0.36	152	0.3	<0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W870046		1	5.5	0.53	144	0.2	0.01	0.006	<0.005	<0.001	<0.05	<0.2	<0.01	0.12	<0.5	<0.5
W870047		1	5.2	0.40	143	0.4	0.02	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.14	<0.5	<0.5
W870048		1	5.4	0.37	140	0.2	0.01	0.005	0.006	<0.001	<0.05	<0.2	0.01	0.17	<0.5	<0.5
W870049		1	4.7	0.39	154	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W870050		1	4.9	0.42	139	0.3	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.05	<0.5	<0.5
W870051		<1	5.0	0.43	141	0.5	0.01	0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W870052		1	4.6	0.38	114	0.2	0.01	0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870053		1	4.5	0.36	109	0.5	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.02	0.14	<0.5	<0.5
W870054		<1	4.9	0.42	121	0.5	0.01	0.006	0.006	0.001	<0.05	0.3	<0.01	0.06	<0.5	<0.5

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870015		14	93	10	2	4	8	18	65	0.013	<0.005	<0.001	0.027
W870016		156	5590	40	3	2200	<2	26	77	0.151	0.716	0.372	12.05
W870017		5	12	20	<1	9	2	4	28	<0.001	<0.005	0.001	0.018
W870018		7	10	30	<1	11	3	3	25	<0.001	<0.005	<0.001	0.011
W870019		5	9	20	1	7	2	2	22	<0.001	<0.005	0.001	0.014
W870020		6	8	20	<1	5	5	3	23	<0.001	<0.005	<0.001	0.025
W870021		5	6	20	<1	7	5	4	25	<0.001	<0.005	<0.001	0.014
W870022		5	8	30	<1	10	3	4	23	<0.001	<0.005	<0.001	0.014
W870023		4	5	30	<1	9	<2	4	19	<0.001	<0.005	<0.001	0.015
W870024		6	10	20	<1	4	8	3	23	<0.001	<0.005	<0.001	0.026
W870025		7	12	20	<1	11	3	4	23	<0.001	<0.005	<0.001	0.020
W870026		7	10	30	<1	10	6	4	26	<0.001	<0.005	<0.001	0.031
W870027		4	11	20	<1	6	3	4	22	<0.001	<0.005	<0.001	0.041
W870028		5	12	20	<1	9	5	4	22	<0.001	<0.005	<0.001	0.046
W870029		5	8	20	1	10	5	4	18	<0.001	<0.005	<0.001	0.025
W870030		5	11	20	1	6	8	4	28	<0.001	<0.005	<0.001	0.039
W870031		6	15	20	<1	9	4	4	23	<0.001	<0.005	<0.001	0.058
W870032		6	10	20	1	4	4	3	21	<0.001	<0.005	<0.001	0.046
W870033		5	8	20	1	7	2	3	23	<0.001	<0.005	<0.001	0.042
W870034		5	7	20	1	8	3	3	27	<0.001	<0.005	<0.001	0.024
W870035		123	4620	20	6	4640	21	13	115	0.068	0.309	0.601	4.69
W870036		5	16	20	1	10	4	3	27	<0.001	<0.005	<0.001	0.048
W870037		5	17	30	1	9	4	4	27	<0.001	<0.005	<0.001	0.060
W870038		5	4	20	<1	8	3	3	35	<0.001	<0.005	<0.001	0.016
W870039		8	14	20	<1	10	3	3	58	<0.001	<0.005	<0.001	0.043
W870040		6	15	20	1	8	6	3	39	<0.001	<0.005	<0.001	0.035
W870041		5	14	20	2	9	3	3	31	<0.001	<0.005	<0.001	0.023
W870042		10	8	30	1	43	4	5	39	<0.001	<0.005	<0.001	0.035
W870043		22	13	30	<1	124	10	9	60	<0.001	<0.005	<0.001	0.059
W870044		9	10	30	<1	33	2	5	31	<0.001	<0.005	<0.001	0.025
W870045		6	3	20	2	11	3	4	22	<0.001	<0.005	<0.001	0.008
W870046		4	15	20	1	8	6	4	26	<0.001	<0.005	<0.001	0.034
W870047		9	17	20	1	26	6	4	33	<0.001	<0.005	<0.001	0.048
W870048		8	12	20	2	24	4	5	35	<0.001	<0.005	<0.001	0.067
W870049		6	13	20	2	10	6	4	28	<0.001	<0.005	<0.001	0.056
W870050		4	11	20	1	8	<2	4	15	<0.001	<0.005	0.001	0.067
W870051		5	13	20	1	8	3	3	22	<0.001	<0.005	<0.001	0.035
W870052		5	9	20	1	8	7	3	25	<0.001	<0.005	<0.001	0.066
W870053		6	17	20	<1	7	<2	3	19	<0.001	<0.005	<0.001	0.087
W870054		5	18	20	<1	6	2	3	16	<0.001	<0.005	0.001	0.152

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870055		0.04	61.8	16.40	5.90	6.14	2.73	3.37	1.50	<0.01	0.49	0.13	0.13	0.05	0.07	1.02
W870056		2.26	73.8	12.85	2.82	2.42	0.67	3.50	1.65	<0.01	0.28	0.06	0.08	0.01	0.03	1.12
W870057		2.08	76.8	11.00	2.86	2.03	1.28	1.16	1.55	<0.01	0.24	0.05	0.09	<0.01	0.02	1.78
W870058		2.36	76.5	12.75	2.57	0.91	1.25	0.87	2.19	<0.01	0.30	0.04	0.03	<0.01	0.03	1.88
W870059		2.27	76.2	13.45	2.71	1.07	1.29	0.91	2.06	<0.01	0.31	0.04	0.05	<0.01	0.03	1.87
W870060		1.99	77.0	12.90	2.69	1.59	1.05	1.29	2.14	<0.01	0.28	0.04	0.09	0.01	0.04	1.30
W870061		2.52	79.6	11.45	2.78	1.58	1.15	1.16	1.59	<0.01	0.25	0.05	0.10	<0.01	0.02	1.28
W870062		2.51	76.3	11.65	2.44	2.48	1.20	1.55	1.33	<0.01	0.25	0.05	0.09	0.01	0.02	1.42
W870063		2.16	76.5	13.70	2.47	2.59	1.25	1.76	1.64	<0.01	0.27	0.05	0.07	<0.01	0.03	1.33
W870064		2.14	74.2	13.35	2.54	3.09	1.31	2.05	1.40	<0.01	0.26	0.06	0.08	0.01	0.03	1.48
W870065		2.21	75.1	12.25	2.42	2.65	1.36	1.88	1.83	<0.01	0.24	0.06	0.06	0.01	0.03	1.49
W870066		2.41	76.0	12.10	2.99	1.86	1.59	1.37	1.93	<0.01	0.26	0.06	0.09	<0.01	0.03	1.74
W870067		2.27	73.5	13.70	3.03	1.74	1.51	2.01	2.40	<0.01	0.29	0.05	0.07	<0.01	0.04	1.99
W870068		2.39	73.7	13.55	3.08	3.01	1.48	2.30	1.72	<0.01	0.26	0.06	0.07	<0.01	0.03	1.67
W870069		2.35	72.8	14.25	3.11	2.90	1.41	2.52	1.89	<0.01	0.29	0.06	0.09	0.01	0.03	1.92
W870070		2.21	70.8	14.25	3.08	2.79	1.64	2.54	2.16	<0.01	0.26	0.06	0.08	0.01	0.03	2.29
W870071		2.37	70.3	13.15	3.66	4.76	1.91	1.88	1.50	<0.01	0.29	0.11	0.10	0.01	0.03	2.26
W870072		2.35	71.5	13.65	3.29	3.05	1.59	2.18	1.56	<0.01	0.26	0.08	0.08	0.01	0.03	2.08
W870073		2.46	67.1	12.30	5.95	4.98	3.01	1.30	1.32	0.01	0.47	0.14	0.09	0.01	0.03	1.89
W870074		2.44	74.0	12.95	3.47	2.18	1.18	2.01	2.47	<0.01	0.30	0.07	0.07	0.01	0.05	1.31
W870075		0.08	41.2	9.03	15.05	15.80	10.75	0.60	0.23	0.11	0.71	0.15	0.14	0.01	0.03	4.25
W870076		2.46	74.1	13.25	3.46	1.99	1.09	2.00	3.00	<0.01	0.32	0.07	0.07	0.01	0.05	0.88
W870077		2.17	74.3	12.80	3.11	2.53	1.21	2.21	2.21	<0.01	0.29	0.07	0.08	0.01	0.04	1.17
W870078		2.26	73.1	13.00	4.02	3.02	1.66	2.23	1.54	<0.01	0.28	0.10	0.09	0.01	0.03	1.21
W870079		2.30	73.9	13.05	3.70	2.58	1.43	2.30	1.73	<0.01	0.27	0.07	0.07	0.01	0.03	1.19
W870080		2.25	73.4	13.10	3.43	2.31	1.28	2.51	1.79	<0.01	0.29	0.07	0.07	0.01	0.04	1.71
W870081		2.31	74.3	13.10	3.35	2.22	1.22	2.57	1.95	<0.01	0.28	0.07	0.08	0.01	0.03	1.30
W870082		2.39	73.7	13.10	3.38	2.34	1.26	2.77	1.93	<0.01	0.28	0.08	0.09	0.01	0.03	1.16
W870083		2.15	72.9	13.55	3.70	2.59	1.38	2.99	2.12	<0.01	0.30	0.11	0.08	0.01	0.03	1.07
W870084		2.23	73.0	13.25	3.79	3.17	1.57	3.00	1.42	<0.01	0.27	0.12	0.10	0.01	0.02	1.37
W870085		2.19	72.9	13.10	3.39	3.08	1.47	2.76	1.64	<0.01	0.26	0.10	0.10	0.01	0.02	1.46
W870086		2.10	74.6	12.45	3.26	3.19	1.45	2.39	1.36	<0.01	0.26	0.09	0.09	0.01	0.03	2.24
W870087		2.21	68.2	13.00	5.75	3.22	2.31	1.56	1.64	0.01	0.48	0.12	0.09	0.01	0.04	2.51
W870088		2.30	72.6	13.00	3.77	3.30	1.69	1.97	1.49	<0.01	0.30	0.08	0.10	0.01	0.04	2.17
W870089		2.36	69.6	12.75	3.94	4.38	1.60	1.45	1.95	0.01	0.36	0.08	0.08	<0.01	0.04	4.42
W870090		2.09	70.3	12.80	3.75	3.05	1.60	0.89	1.89	0.01	0.38	0.06	0.09	<0.01	0.03	4.34
W870091		2.39	67.3	12.70	3.51	2.37	1.66	0.72	1.71	<0.01	0.31	0.05	0.04	<0.01	0.03	3.69
W870092		0.08	44.8	11.80	19.25	5.80	6.25	2.04	0.61	0.03	1.19	0.18	0.15	0.02	0.02	1.22

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870055		99.73	0.03	0.02	620	30.0	10	0.70	3.85	2.53	0.91	15.9	3.92	<5	3.8	0.86
W870056		99.29	0.17	0.07	229	45.6	20	1.33	0.94	0.52	0.61	15.8	1.55	<5	3.4	0.18
W870057		98.86	0.09	0.05	154.0	39.9	20	1.14	0.93	0.43	0.50	14.5	1.33	<5	3.2	0.17
W870058		99.32	0.01	0.03	302	51.4	20	1.33	0.71	0.34	0.52	16.9	1.44	<5	3.9	0.13
W870059		99.99	0.03	0.03	312	53.0	20	3.07	0.89	0.36	0.63	19.1	1.53	<5	4.4	0.16
W870060		100.42	0.05	0.04	351	44.1	20	2.98	0.79	0.43	0.66	16.1	1.49	<5	3.4	0.15
W870061		101.01	0.07	0.05	217	46.2	20	2.34	1.03	0.53	0.57	15.7	1.48	<5	3.3	0.19
W870062		98.79	0.12	0.03	225	44.3	30	2.28	1.08	0.54	0.57	15.6	1.60	<5	3.4	0.21
W870063		101.66	0.04	0.05	307	40.6	20	1.62	0.86	0.43	0.56	17.3	1.43	<5	3.6	0.16
W870064		99.86	0.06	0.03	269	42.5	20	1.89	1.01	0.47	0.62	17.7	1.56	<5	3.7	0.17
W870065		99.38	0.07	0.03	316	38.0	20	2.06	0.95	0.47	0.57	16.3	1.32	<5	3.2	0.18
W870066		100.02	0.04	0.08	297	43.1	10	1.62	0.83	0.46	0.53	15.8	1.32	<5	3.3	0.15
W870067		100.33	0.08	0.05	341	38.1	20	1.94	0.85	0.43	0.51	16.5	1.28	<5	3.6	0.15
W870068		100.93	0.14	0.08	256	39.0	20	2.10	0.92	0.42	0.57	18.4	1.37	<5	3.5	0.17
W870069		101.28	0.16	0.03	281	38.1	10	1.98	0.89	0.45	0.51	16.7	1.26	<5	3.2	0.16
W870070		99.99	0.22	0.04	216	28.8	10	1.94	0.81	0.36	0.53	16.7	1.18	<5	2.9	0.16
W870071		99.96	0.29	0.08	216	40.9	10	1.39	0.87	0.39	0.58	13.9	1.36	<5	2.7	0.16
W870072		99.36	0.20	0.06	233	36.8	10	1.79	0.77	0.38	0.53	16.5	1.18	<5	3.0	0.15
W870073		98.60	0.17	0.23	183.0	27.7	40	1.80	1.31	0.70	0.57	12.0	1.40	<5	2.1	0.26
W870074		100.07	0.09	0.03	409	47.3	10	2.16	0.81	0.33	0.63	15.6	1.35	<5	3.2	0.12
W870075		98.06	0.25	2.53	278	19.8	720	0.38	2.53	1.34	0.72	10.1	2.48	<5	1.8	0.53
W870076		100.29	0.08	0.03	414	48.5	10	2.40	0.79	0.30	0.65	15.3	1.36	<5	3.0	0.14
W870077		100.03	0.13	0.03	315	52.2	20	2.42	0.94	0.40	0.69	15.8	1.35	<5	3.1	0.15
W870078		100.29	0.10	0.08	221	44.4	10	2.61	1.02	0.47	0.56	15.8	1.40	<5	2.8	0.19
W870079		100.33	0.09	0.08	265	44.3	10	2.15	0.88	0.42	0.57	15.1	1.35	<5	2.9	0.16
W870080		100.01	0.16	0.06	303	49.1	10	2.12	0.95	0.41	0.58	15.9	1.34	<5	3.4	0.15
W870081		100.48	0.15	0.06	267	46.9	10	2.06	0.93	0.46	0.60	15.1	1.43	<5	3.0	0.16
W870082		100.13	0.13	0.05	236	47.8	10	2.23	0.97	0.46	0.62	15.5	1.37	<5	3.1	0.18
W870083		100.83	0.13	0.07	238	48.6	10	2.26	0.89	0.51	0.62	15.5	1.38	<5	3.3	0.16
W870084		101.09	0.15	0.07	185.5	45.0	20	1.67	0.93	0.52	0.62	14.7	1.36	<5	2.9	0.17
W870085		100.29	0.16	0.06	203	44.4	10	1.73	1.04	0.56	0.58	14.7	1.33	<5	2.9	0.20
W870086		101.42	0.27	0.05	241	46.8	20	1.27	0.87	0.43	0.65	15.3	1.27	<5	3.0	0.15
W870087		98.94	0.27	0.21	334	41.4	50	2.29	1.40	0.91	0.65	17.2	1.81	<5	3.1	0.26
W870088		100.52	0.23	0.07	344	48.4	20	1.45	1.01	0.48	0.64	16.8	1.55	<5	3.5	0.18
W870089		100.66	0.73	0.10	334	44.9	40	1.90	1.27	0.79	0.73	16.4	1.65	<5	3.1	0.24
W870090		99.19	0.60	0.02	291	43.8	50	2.59	1.13	0.58	0.66	17.5	1.63	<5	3.4	0.22
W870091		94.09	0.40	0.01	312	58.8	20	2.69	0.83	0.38	0.68	18.3	1.58	<5	3.9	0.14
W870092		93.36	0.09	1.69	208	26.1	230	0.86	2.43	1.37	1.06	15.4	2.82	<5	2.2	0.48

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870055		13.9	0.43	3.4	18.1	4.06	27.7	4.33	1	506	0.2	0.68	3.07	0.38	1.38	157
W870056		25.3	0.08	4.2	16.2	4.73	33.9	2.29	1	122.5	0.3	0.21	4.62	0.08	0.72	30
W870057		22.2	0.05	3.3	14.3	4.09	35.6	2.14	1	53.3	0.2	0.20	3.99	0.06	0.58	28
W870058		28.2	0.04	3.3	18.1	5.33	46.0	2.48	<1	50.6	0.2	0.17	5.56	0.05	0.59	35
W870059		29.6	0.06	4.0	18.7	5.34	51.5	2.61	1	55.5	0.3	0.19	5.54	0.05	0.89	47
W870060		24.6	0.06	3.8	15.6	4.56	49.4	2.35	1	65.1	0.3	0.17	4.65	0.06	0.84	32
W870061		25.5	0.07	3.8	16.0	4.83	38.1	2.52	1	51.5	0.3	0.19	4.71	0.07	0.83	33
W870062		24.1	0.08	3.9	16.3	4.66	35.7	2.42	1	63.6	0.4	0.22	4.55	0.07	0.87	30
W870063		22.3	0.07	3.8	14.9	4.23	36.4	2.31	1	69.2	0.3	0.19	4.13	0.05	0.74	33
W870064		23.7	0.07	3.9	15.8	4.45	38.1	2.37	1	82.3	0.4	0.20	4.29	0.06	0.76	34
W870065		21.3	0.06	3.7	13.9	3.90	49.1	2.16	1	82.2	0.3	0.18	3.69	0.07	0.77	32
W870066		24.0	0.06	3.9	15.3	4.51	43.9	2.24	1	58.5	0.3	0.17	4.60	0.06	0.71	30
W870067		21.1	0.06	3.6	13.7	3.92	55.4	2.08	1	74.4	0.3	0.17	3.85	0.06	0.63	32
W870068		21.7	0.07	3.5	14.4	4.14	39.7	2.20	1	88.8	0.3	0.19	4.01	0.05	0.60	32
W870069		20.4	0.07	3.7	12.9	3.95	48.6	1.91	1	87.7	0.3	0.17	3.61	0.06	0.49	30
W870070		15.1	0.05	3.0	10.4	3.12	56.6	1.63	<1	85.8	0.2	0.17	2.86	0.05	0.40	28
W870071		22.1	0.05	3.5	13.9	4.25	31.3	2.00	<1	73.3	0.3	0.18	3.93	0.07	0.64	25
W870072		20.2	0.07	3.3	12.4	3.80	37.1	1.90	1	83.2	0.3	0.17	3.20	0.06	0.69	29
W870073		14.6	0.10	2.8	10.0	2.94	28.4	1.70	1	60.6	0.2	0.20	2.48	0.11	0.62	83
W870074		25.5	0.06	3.5	16.1	4.85	46.0	2.34	1	113.5	0.3	0.17	4.58	0.05	0.51	31
W870075		9.6	0.20	5.8	10.3	2.48	4.8	2.60	2	62.9	0.3	0.42	1.82	0.21	0.93	170
W870076		26.0	0.05	3.2	16.4	5.02	47.6	2.22	3	122.5	0.3	0.15	4.80	0.04	0.46	32
W870077		28.3	0.06	3.8	17.9	5.28	42.7	2.50	3	117.5	0.3	0.19	4.87	0.05	0.60	29
W870078		24.2	0.08	3.7	15.3	4.49	34.1	2.07	1	80.8	0.3	0.19	4.18	0.06	0.89	27
W870079		23.7	0.06	3.5	14.9	4.46	32.7	2.01	1	82.5	0.3	0.17	4.09	0.06	0.69	28
W870080		26.6	0.07	4.3	16.4	5.01	34.6	2.24	1	97.0	0.4	0.16	4.86	0.05	0.92	31
W870081		25.3	0.06	3.8	15.4	4.80	33.7	2.11	1	95.9	0.3	0.17	4.55	0.07	0.95	28
W870082		25.9	0.07	4.4	15.8	4.91	36.4	2.20	1	102.5	0.4	0.18	4.53	0.07	0.92	29
W870083		26.3	0.09	4.3	15.9	4.87	38.3	2.13	1	109.0	0.4	0.18	4.55	0.07	0.90	31
W870084		24.6	0.09	3.9	14.8	4.59	27.2	2.15	1	106.5	0.4	0.18	4.11	0.08	1.20	27
W870085		24.2	0.10	3.7	14.7	4.53	28.4	2.15	1	99.0	0.4	0.20	4.03	0.08	1.29	27
W870086		25.5	0.07	3.3	15.5	4.71	24.4	2.27	1	95.6	0.3	0.16	4.33	0.07	0.78	29
W870087		21.9	0.12	3.7	14.5	4.36	37.9	2.20	<1	77.5	0.3	0.25	3.83	0.12	0.68	106
W870088		26.0	0.07	3.6	16.5	5.01	29.0	2.39	1	82.4	0.3	0.21	4.57	0.07	0.79	36
W870089		24.4	0.11	3.3	15.0	4.61	44.6	2.33	<1	64.1	0.3	0.24	3.77	0.11	1.10	62
W870090		23.6	0.08	3.5	15.0	4.45	52.8	2.15	<1	60.0	0.4	0.20	4.02	0.08	1.10	71
W870091		32.6	0.05	3.5	18.9	5.88	46.1	2.59	<1	57.2	0.3	0.18	5.47	0.05	0.69	43
W870092		11.8	0.20	6.3	13.2	3.22	15.8	2.89	4	248	0.4	0.40	1.51	0.19	0.46	116

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870055		5	23.9	2.55	131	1.0	0.06	0.012	0.009	<0.001	0.14	<0.2	0.01	0.04	<0.5	<0.5
W870056		2	5.2	0.48	131	0.4	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W870057		1	4.8	0.38	124	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870058		<1	3.5	0.28	159	0.5	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W870059		<1	4.1	0.35	173	0.3	0.01	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870060		<1	4.4	0.35	137	0.2	0.01	<0.005	0.006	0.001	<0.05	0.3	<0.01	0.10	<0.5	<0.5
W870061		<1	5.3	0.35	127	0.3	0.01	0.006	0.006	0.001	<0.05	0.2	<0.01	0.07	<0.5	<0.5
W870062		<1	5.8	0.51	133	0.7	0.01	0.005	0.009	0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870063		1	4.7	0.35	135	0.3	0.02	<0.005	0.009	<0.001	<0.05	0.3	<0.01	0.07	<0.5	<0.5
W870064		<1	5.1	0.38	141	0.3	0.03	<0.005	0.011	0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W870065		1	4.9	0.39	127	0.3	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870066		1	4.5	0.33	130	0.4	0.02	<0.005	0.007	<0.001	<0.05	0.3	<0.01	0.04	<0.5	<0.5
W870067		1	4.3	0.35	135	0.3	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870068		1	4.5	0.34	136	0.1	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W870069		2	4.4	0.34	126	0.2	0.01	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W870070		<1	3.9	0.31	121	0.2	0.02	0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870071		1	4.6	0.35	115	0.2	0.02	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870072		1	4.0	0.37	120	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870073		1	7.0	0.73	84	0.3	0.04	<0.005	0.011	0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
W870074		<1	3.7	0.27	137	0.2	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W870075		1	13.8	1.42	74	46.6	0.32	0.117	0.049	0.016	1.53	12.1	1.64	0.06	2.7	1.0
W870076		1	3.6	0.32	127	0.1	0.01	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.12	<0.5	<0.5
W870077		<1	4.3	0.37	134	0.3	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W870078		<1	5.2	0.43	119	0.3	0.02	<0.005	0.010	<0.001	<0.05	0.2	<0.01	0.09	<0.5	<0.5
W870079		1	4.7	0.42	116	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W870080		1	4.4	0.35	141	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W870081		1	4.4	0.43	128	0.2	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W870082		1	5.0	0.52	129	0.3	0.01	0.005	0.008	<0.001	<0.05	0.2	<0.01	0.10	<0.5	<0.5
W870083		1	4.9	0.51	139	0.3	0.01	<0.005	0.010	0.001	<0.05	0.2	<0.01	0.12	<0.5	<0.5
W870084		1	5.0	0.56	119	0.3	0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870085		<1	5.7	0.65	121	0.4	0.02	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W870086		1	4.4	0.37	126	0.3	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870087		1	7.5	0.74	126	0.2	0.03	<0.005	0.017	<0.001	<0.05	0.2	<0.01	0.10	<0.5	<0.5
W870088		2	4.9	0.41	148	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870089		2	7.1	0.70	124	0.5	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870090		1	5.7	0.58	140	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870091		1	3.8	0.31	164	<0.1	<0.01	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870092		4	12.8	1.23	93	3.8	0.91	0.010	0.060	0.005	0.40	5.2	0.57	0.08	1.8	0.7

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034376

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
W870055		13	93	10	2	6	<2	17	57	0.002	<0.005	0.001	0.025
W870056		6	14	10	<1	6	<2	4	16	<0.001	<0.005	<0.001	0.092
W870057		8	27	20	<1	11	<2	3	22	<0.001	<0.005	<0.001	0.060
W870058		8	15	30	1	13	<2	3	14	<0.001	<0.005	<0.001	0.015
W870059		9	12	30	1	14	<2	4	15	<0.001	<0.005	<0.001	0.015
W870060		8	16	30	<1	9	<2	3	20	<0.001	<0.005	<0.001	0.018
W870061		9	26	30	<1	10	<2	3	35	<0.001	<0.005	<0.001	0.023
W870062		7	30	30	<1	11	2	4	50	<0.001	<0.005	<0.001	0.049
W870063		7	64	20	<1	7	<2	4	24	<0.001	<0.005	<0.001	0.087
W870064		6	63	30	<1	7	<2	3	28	0.002	<0.005	<0.001	0.086
W870065		7	18	30	<1	8	<2	3	21	<0.001	<0.005	<0.001	0.025
W870066		8	35	30	1	9	<2	3	28	<0.001	<0.005	<0.001	0.079
W870067		5	24	20	<1	10	<2	4	28	<0.001	<0.005	<0.001	0.022
W870068		6	21	30	<1	8	<2	3	34	<0.001	<0.005	<0.001	0.100
W870069		5	11	30	<1	8	<2	3	23	<0.001	<0.005	<0.001	0.026
W870070		6	7	30	<1	8	<2	3	30	<0.001	<0.005	<0.001	0.039
W870071		5	28	30	<1	6	<2	3	36	<0.001	<0.005	<0.001	0.088
W870072		6	9	30	<1	7	<2	3	28	<0.001	<0.005	<0.001	0.034
W870073		14	42	30	<1	21	<2	14	57	<0.001	<0.005	<0.001	0.147
W870074		5	4	30	<1	10	<2	3	20	<0.001	<0.005	<0.001	0.007
W870075		153	5650	40	2	2130	<2	25	75	0.104	0.673	0.362	11.15
W870076		6	7	30	<1	13	<2	3	21	<0.001	<0.005	<0.001	0.009
W870077		6	5	30	<1	12	<2	3	15	<0.001	<0.005	<0.001	0.006
W870078		5	12	30	<1	7	<2	3	23	<0.001	<0.005	<0.001	0.037
W870079		5	15	30	1	7	<2	3	22	<0.001	<0.005	0.001	0.024
W870080		4	11	30	<1	6	<2	4	19	<0.001	<0.005	<0.001	0.028
W870081		4	9	30	<1	6	<2	4	20	<0.001	<0.005	0.001	0.028
W870082		4	10	30	<1	7	<2	4	21	<0.001	<0.005	0.001	0.026
W870083		3	11	30	<1	5	<2	4	26	<0.001	<0.005	0.001	0.020
W870084		4	9	30	1	6	<2	4	27	<0.001	<0.005	<0.001	0.025
W870085		4	10	30	<1	5	<2	3	24	<0.001	<0.005	<0.001	0.022
W870086		4	11	20	1	10	<2	3	25	<0.001	<0.005	<0.001	0.021
W870087		15	37	30	<1	20	<2	12	42	<0.001	<0.005	0.001	0.132
W870088		6	15	20	<1	7	<2	4	25	<0.001	<0.005	<0.001	0.025
W870089		9	26	30	<1	14	<2	7	28	<0.001	<0.005	<0.001	0.052
W870090		8	11	30	<1	16	<2	8	27	<0.001	<0.005	<0.001	0.008
W870091		6	4	40	<1	12	<2	3	24	<0.001	<0.005	0.001	0.008
W870092		115	4450	20	4	4630	17	12	94	0.097	0.285	0.603	4.53

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CERTIFICATE OF ANALYSIS TB18034376

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		