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: 5-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18034378

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.
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
W443937		0.04	61.1	16.50	5.94	6.13	2.79	3.34	1.50	<0.01	0.51	0.13	0.14	0.06	0.07	0.90
W443938		0.08	41.1	9.09	15.35	15.85	10.95	0.61	0.23	0.11	0.71	0.15	0.11	<0.01	0.03	3.82
W443939		1.75	47.4	14.60	12.15	11.35	8.23	1.89	0.50	0.05	0.70	0.22	0.05	0.01	0.02	2.07
W443940		1.85	47.3	14.85	12.30	10.85	7.96	2.08	0.55	0.05	0.73	0.25	0.05	0.01	0.02	2.42
W443941		1.85	63.1	14.75	6.48	5.01	3.31	3.92	0.61	0.02	0.42	0.14	0.10	0.02	0.02	1.58
W443942		1.86	73.5	13.75	3.17	2.19	1.20	5.07	0.72	<0.01	0.29	0.06	0.11	0.01	0.02	0.81
W443943		2.17	72.8	13.10	4.02	2.41	1.62	4.54	0.51	0.01	0.32	0.07	0.09	0.01	0.01	1.40
W443944		2.19	73.7	12.85	3.40	2.56	1.34	4.32	0.74	0.01	0.26	0.07	0.08	0.01	0.02	1.30
W443945		2.10	75.5	12.50	2.86	2.29	1.15	4.14	0.96	<0.01	0.26	0.06	0.07	0.01	0.02	0.89
W443946		2.24	71.5	13.15	3.33	2.12	1.15	4.39	0.86	<0.01	0.29	0.06	0.09	0.01	0.02	1.11
W443947		2.08	74.4	13.90	3.06	1.78	1.05	4.72	1.15	<0.01	0.29	0.06	0.10	0.01	0.02	0.79
W443948		2.26	73.2	14.15	3.06	1.55	1.13	4.99	1.29	<0.01	0.32	0.06	0.09	0.01	0.03	0.88
W443949		2.29	59.7	13.85	8.43	6.88	5.12	3.23	0.79	0.03	0.53	0.16	0.06	0.01	0.03	1.46
W443950		2.30	73.5	13.55	3.14	3.06	1.26	4.52	0.75	<0.01	0.27	0.08	0.10	0.01	0.02	0.91
W443951		2.39	73.7	12.65	3.27	4.31	1.64	3.88	0.83	<0.01	0.26	0.11	0.08	0.01	0.02	0.86
W443952		2.49	56.7	15.90	8.18	8.49	4.21	2.36	1.17	0.04	0.61	0.14	0.07	0.01	0.03	2.83
W443953		2.46	62.4	14.55	6.52	6.33	3.68	3.04	1.14	0.03	0.48	0.13	0.07	0.01	0.03	1.58
W443954		2.31	74.7	13.40	2.85	1.65	1.06	4.27	1.22	<0.01	0.28	0.06	0.09	0.01	0.03	0.86
W443955		2.28	73.1	13.95	3.42	2.03	1.32	3.81	1.50	<0.01	0.30	0.08	0.08	0.01	0.03	1.12
W443956		2.18	73.9	13.65	3.35	1.53	1.21	3.96	1.35	<0.01	0.30	0.07	0.09	0.01	0.03	1.18
W443957		0.08	46.1	12.85	20.5	6.29	6.64	2.21	0.65	0.03	1.26	0.20	0.16	0.03	0.02	1.08
W443958		2.18	75.2	13.30	2.70	1.65	1.12	3.82	1.28	<0.01	0.29	0.06	0.09	0.01	0.03	1.10
W443959		2.12	66.9	13.85	4.26	3.84	2.09	3.26	1.38	0.02	0.39	0.10	0.07	0.01	0.03	2.48
W443960		2.26	66.8	13.80	5.07	3.85	2.69	3.17	1.12	0.01	0.36	0.11	0.09	0.01	0.03	1.84
W443961		2.36	71.3	11.60	3.59	6.08	2.05	2.72	0.80	<0.01	0.25	0.13	0.08	0.01	0.13	1.14
W443962		2.50	60.8	13.20	7.53	7.79	4.54	2.64	1.09	0.02	0.44	0.17	0.07	0.01	0.03	1.77
W443963		2.31	66.4	13.25	5.76	4.49	3.16	3.34	0.95	0.02	0.40	0.12	0.09	<0.01	0.02	1.30
W443964		2.13	73.8	12.75	3.09	3.55	1.46	3.50	1.15	<0.01	0.26	0.08	0.09	<0.01	0.02	1.24
W443965		2.24	72.2	13.45	3.20	1.78	1.15	4.16	1.41	<0.01	0.33	0.05	0.08	0.01	0.03	1.17
W443966		2.30	55.1	15.50	8.29	8.68	4.07	1.81	1.41	0.04	0.61	0.17	0.07	0.01	0.03	2.51
W443967		2.21	76.0	12.50	3.38	2.41	0.96	3.19	1.52	<0.01	0.30	0.08	0.06	0.01	0.04	1.18
W443968		2.26	76.0	13.10	2.43	3.55	0.47	4.08	0.87	<0.01	0.28	0.07	0.08	0.01	0.03	1.01
W443969		2.42	60.8	14.15	7.41	6.82	4.10	2.41	1.17	0.02	0.48	0.16	0.08	0.01	0.03	1.78
W443970		2.23	67.6	13.30	4.64	3.68	2.00	2.88	1.61	0.01	0.38	0.09	0.06	0.01	0.03	1.71
W443971		2.27	74.7	13.45	3.16	1.23	0.94	2.53	2.11	<0.01	0.31	0.06	0.08	0.01	0.04	1.40
W443972		2.31	75.9	13.60	3.43	1.52	0.93	2.51	1.91	<0.01	0.33	0.05	0.07	0.01	0.05	1.37
W443973		2.16	76.6	13.35	3.36	0.96	0.98	1.52	2.66	<0.01	0.33	0.05	0.06	0.01	0.05	1.72
W443974		2.36	74.3	13.25	3.14	1.56	0.86	1.81	2.65	<0.01	0.31	0.05	0.06	<0.01	0.05	2.07
W443975		2.11	75.3	12.80	2.72	1.46	0.73	2.08	2.89	<0.01	0.32	0.05	0.08	<0.01	0.05	1.19
W443976		2.16	74.7	12.45	2.41	1.57	0.67	2.19	2.59	<0.01	0.30	0.05	0.06	<0.01	0.05	1.32

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THUNDER BAY ON P7B 2R2

Finalized Date: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443937		99.11	0.04	0.01	603	30.8	10	0.69	3.81	2.47	0.98	16.4	4.04	<5	3.9	0.86
W443938		98.11	0.24	2.74	291	20.2	760	0.43	2.44	1.49	0.74	11.0	2.62	<5	2.0	0.53
W443939		99.24	0.13	0.49	145.5	5.3	370	0.50	2.60	1.63	0.61	15.5	2.15	<5	1.0	0.58
W443940		99.42	0.16	1.26	165.0	5.9	370	0.60	2.65	1.84	0.68	16.8	2.26	<5	1.1	0.63
W443941		99.48	0.11	0.74	186.5	29.7	140	1.37	1.49	0.93	0.62	17.7	1.68	<5	2.5	0.33
W443942		100.90	0.08	0.08	182.5	46.7	20	1.14	0.90	0.44	0.53	16.4	1.34	<5	3.5	0.16
W443943		100.91	0.11	0.10	118.0	42.7	60	1.34	0.94	0.48	0.58	16.3	1.30	<5	3.2	0.16
W443944		100.66	0.16	0.16	168.0	38.3	40	1.27	0.79	0.37	0.52	16.7	1.24	<5	3.0	0.15
W443945		100.71	0.12	0.09	208	45.3	20	1.01	0.78	0.37	0.59	17.0	1.38	<5	3.4	0.16
W443946		98.08	0.14	0.06	207	47.3	20	1.07	0.92	0.42	0.66	18.1	1.56	<5	3.7	0.18
W443947		101.33	0.07	0.06	227	47.3	20	0.94	0.94	0.42	0.66	19.0	1.50	<5	3.7	0.18
W443948		100.76	0.07	0.05	248	50.0	20	1.09	0.90	0.44	0.65	18.7	1.58	<5	4.0	0.16
W443949		100.28	0.13	0.86	212	24.0	200	0.97	1.69	1.03	0.59	15.1	1.72	<5	2.1	0.37
W443950		101.17	0.11	0.10	160.5	48.5	20	0.91	0.99	0.53	0.64	16.9	1.46	<5	3.5	0.18
W443951		101.62	0.11	0.09	186.5	49.9	20	0.84	1.04	0.52	0.68	16.5	1.60	<5	3.2	0.20
W443952		100.74	0.14	1.88	297	22.5	290	1.11	2.22	1.34	0.68	17.6	2.12	<5	2.1	0.47
W443953		99.99	0.09	1.05	232	24.2	190	0.98	1.74	1.02	0.58	16.2	1.82	<5	2.2	0.37
W443954		100.48	0.06	0.15	232	42.6	20	0.78	0.98	0.40	0.59	17.3	1.45	<5	3.5	0.16
W443955		100.75	0.06	0.08	240	33.3	20	0.93	0.83	0.40	0.52	16.8	1.29	<5	3.5	0.14
W443956		100.63	0.03	0.08	277	38.8	20	0.94	0.79	0.39	0.51	17.8	1.28	<5	3.5	0.15
W443957		98.02	0.08	1.80	207	25.5	240	0.87	2.40	1.28	1.09	15.2	2.71	<5	2.2	0.50
W443958		100.65	0.07	0.07	267	45.8	20	0.65	0.84	0.38	0.60	17.0	1.41	<5	3.5	0.16
W443959		98.68	0.38	0.40	282	34.1	110	1.31	1.19	0.63	0.52	16.2	1.43	<5	2.5	0.24
W443960		98.95	0.22	0.17	275	31.4	90	1.88	1.06	0.58	0.53	16.0	1.30	<5	2.7	0.22
W443961		99.88	0.17	0.23	1200	49.5	20	0.80	1.08	0.54	0.67	15.9	1.66	<5	3.2	0.21
W443962		100.10	0.21	0.79	285	31.7	150	1.10	1.68	0.92	0.60	16.4	1.88	<5	2.5	0.37
W443963		99.30	0.11	0.33	202	31.3	140	1.34	1.39	0.83	0.54	17.5	1.57	<5	2.8	0.31
W443964		100.99	0.11	0.20	225	43.0	20	0.82	1.02	0.44	0.59	17.1	1.54	<5	3.0	0.18
W443965		99.02	0.07	0.14	248	41.2	20	0.77	0.79	0.40	0.60	17.4	1.38	<5	3.6	0.14
W443966		98.30	0.23	0.45	302	17.8	300	1.39	2.37	1.56	0.59	17.1	2.07	<5	1.7	0.53
W443967		101.63	0.08	0.09	316	46.0	20	0.89	0.89	0.39	0.80	17.6	1.58	<5	3.6	0.16
W443968		101.98	0.12	0.05	333	46.2	20	0.49	0.96	0.45	0.63	16.6	1.49	<5	3.3	0.17
W443969		99.42	0.15	0.32	253	30.4	190	0.92	1.94	1.16	0.61	16.7	2.13	<5	2.0	0.44
W443970		98.00	0.11	0.33	268	36.5	100	1.30	1.23	0.73	0.67	19.7	1.73	<5	3.5	0.26
W443971		100.02	0.03	0.10	431	55.1	20	1.82	0.84	0.39	0.70	20.2	1.70	<5	3.9	0.16
W443972		101.68	0.04	0.08	497	60.5	20	1.55	1.01	0.41	0.74	20.7	1.76	<5	4.4	0.19
W443973		101.65	0.03	0.05	467	54.7	20	1.18	0.76	0.27	0.62	17.7	1.49	<5	4.1	0.14
W443974		100.11	0.18	0.08	434	56.8	20	1.61	0.87	0.36	0.75	18.6	1.64	<5	4.0	0.15
W443975		99.67	0.08	0.10	472	56.3	20	1.27	0.97	0.45	0.74	15.8	1.81	<5	3.9	0.16
W443976		98.36	0.10	0.06	435	51.8	20	1.47	0.78	0.33	0.66	15.1	1.51	<5	3.6	0.14

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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
W443937		13.7	0.44	3.3	17.8	4.22	27.6	4.24	1	499	0.2	0.62	3.16	0.39	1.29	157
W443938		9.7	0.23	6.2	10.8	2.55	5.0	2.70	2	66.3	0.4	0.43	1.99	0.20	0.97	177
W443939		1.9	0.27	1.4	4.4	0.84	11.8	1.60	1	99.4	0.1	0.39	0.19	0.23	0.09	273
W443940		2.5	0.29	1.6	4.8	0.93	14.1	1.63	1	136.5	0.1	0.43	0.16	0.26	0.06	286
W443941		15.7	0.15	3.3	11.1	3.17	13.6	2.19	1	145.5	0.3	0.24	2.82	0.13	0.73	105
W443942		24.9	0.07	4.2	15.7	4.73	14.8	2.31	1	110.0	0.4	0.17	4.76	0.06	0.72	29
W443943		22.8	0.07	3.5	14.7	4.46	10.4	2.07	1	110.0	0.3	0.17	4.39	0.06	0.86	53
W443944		20.5	0.06	4.1	13.0	3.90	17.8	1.94	1	105.0	0.4	0.15	3.85	0.06	1.05	39
W443945		24.1	0.07	4.1	15.4	4.64	22.4	2.35	1	117.5	0.4	0.17	4.50	0.05	0.78	29
W443946		25.6	0.07	4.5	16.6	4.92	19.4	2.51	1	121.5	0.4	0.20	5.20	0.06	0.72	33
W443947		24.6	0.06	4.1	16.3	4.84	24.5	2.44	1	136.0	0.3	0.20	5.08	0.05	0.67	32
W443948		26.1	0.06	4.4	17.0	5.15	24.2	2.54	1	133.0	0.4	0.20	5.80	0.05	0.73	38
W443949		12.6	0.18	2.4	9.3	2.60	15.9	1.86	1	130.5	0.2	0.29	2.28	0.15	0.46	157
W443950		25.6	0.06	4.1	16.0	4.96	15.8	2.35	1	129.5	0.4	0.19	4.62	0.06	0.86	29
W443951		27.6	0.08	3.9	17.2	5.14	18.0	2.46	1	118.5	0.3	0.20	4.55	0.07	0.72	27
W443952		11.6	0.21	2.5	9.6	2.51	33.1	2.17	1	103.5	0.2	0.36	2.02	0.20	0.35	204
W443953		12.4	0.16	2.6	9.9	2.64	24.9	1.91	1	95.3	0.3	0.28	2.66	0.15	0.60	135
W443954		21.3	0.07	4.0	15.3	4.51	21.0	2.27	1	129.0	0.3	0.18	5.03	0.06	0.61	29
W443955		15.7	0.06	4.1	11.9	3.59	28.4	2.01	1	141.5	0.3	0.17	4.83	0.06	0.59	31
W443956		19.0	0.07	4.0	13.7	4.01	25.1	2.11	1	133.0	0.3	0.17	4.84	0.04	0.57	32
W443957		11.5	0.18	6.6	13.2	3.12	14.9	2.86	4	240	0.4	0.40	1.47	0.17	0.46	112
W443958		23.4	0.06	4.0	15.8	4.70	19.0	2.28	1	104.0	0.3	0.17	4.88	0.04	0.66	29
W443959		17.7	0.10	3.1	12.1	3.55	31.2	1.98	1	89.2	0.3	0.22	3.37	0.09	0.58	83
W443960		16.2	0.09	3.1	11.5	3.34	24.7	1.86	1	124.0	0.3	0.19	3.33	0.09	0.61	76
W443961		27.4	0.08	3.9	17.0	5.02	22.3	2.48	1	123.0	0.3	0.21	4.54	0.07	0.86	32
W443962		17.0	0.16	2.8	12.1	3.39	27.3	2.08	1	111.0	0.3	0.28	2.89	0.13	0.68	118
W443963		16.2	0.15	3.6	11.3	3.30	22.6	1.98	1	103.5	0.4	0.23	3.21	0.14	0.77	107
W443964		22.8	0.07	3.9	14.7	4.42	24.7	2.37	1	104.0	0.3	0.20	4.47	0.06	0.72	27
W443965		19.8	0.05	4.1	14.4	4.36	23.2	2.28	1	115.0	0.3	0.18	5.31	0.03	0.56	36
W443966		8.5	0.24	2.3	7.9	2.05	35.2	1.92	1	111.5	0.2	0.35	1.81	0.23	0.34	209
W443967		22.9	0.06	7.6	17.0	4.94	21.1	2.60	1	124.0	0.4	0.18	4.92	0.05	0.62	35
W443968		24.3	0.07	5.6	16.4	4.77	18.6	2.50	1	139.5	0.3	0.19	4.43	0.06	0.75	27
W443969		15.3	0.20	3.4	12.3	3.35	26.0	2.35	1	101.0	0.3	0.33	2.99	0.17	0.56	153
W443970		17.8	0.11	3.7	13.2	3.85	34.4	2.28	1	121.5	0.3	0.23	4.25	0.10	0.95	87
W443971		29.2	0.06	4.7	19.2	5.75	41.2	2.73	1	118.5	0.3	0.20	5.75	0.04	0.53	39
W443972		32.6	0.06	4.6	19.8	6.13	35.1	2.70	<1	113.5	0.3	0.20	5.82	0.06	0.58	38
W443973		29.4	0.04	3.7	18.0	5.52	37.4	2.48	<1	70.6	0.3	0.17	5.37	0.04	0.46	33
W443974		32.0	0.05	3.8	18.6	5.82	45.0	2.50	1	78.7	0.3	0.18	4.97	0.04	0.57	36
W443975		30.4	0.05	4.7	19.2	5.81	42.3	2.77	1	115.0	0.4	0.20	5.51	0.06	0.59	36
W443976		28.4	0.05	4.3	17.6	5.37	39.6	2.34	<1	119.5	0.3	0.17	4.84	0.04	0.56	34

***** 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: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443937		5	23.8	2.70	135	1.1	0.05	<0.005	0.011	<0.001	0.14	<0.2	<0.01	0.04	<0.5	<0.5
W443938		1	14.5	1.37	77	47.4	0.30	0.155	0.051	0.018	1.19	12.7	1.35	0.06	2.5	1.9
W443939		<1	15.6	1.66	37	0.4	0.01	<0.005	0.008	0.002	<0.05	0.4	0.02	0.11	<0.5	0.8
W443940		1	16.6	1.82	40	0.8	0.03	<0.005	0.009	0.001	0.05	1.0	0.03	0.14	<0.5	0.8
W443941		<1	8.4	0.94	104	0.5	0.02	<0.005	0.010	<0.001	<0.05	0.7	0.01	0.12	<0.5	<0.5
W443942		<1	4.5	0.48	144	<0.1	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443943		1	4.4	0.43	135	0.5	0.04	<0.005	0.012	<0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W443944		1	3.9	0.43	125	0.5	0.04	<0.005	0.009	<0.001	<0.05	0.4	<0.01	0.07	<0.5	<0.5
W443945		<1	4.3	0.40	135	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	<0.01	0.08	<0.5	<0.5
W443946		<1	4.7	0.42	157	0.2	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W443947		<1	4.6	0.42	162	<0.1	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443948		<1	4.4	0.44	168	0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443949		<1	9.7	1.10	85	0.4	0.02	<0.005	0.012	0.001	<0.05	0.8	0.03	0.13	<0.5	0.6
W443950		1	4.9	0.50	138	0.2	0.01	<0.005	0.009	<0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W443951		<1	5.5	0.51	138	0.3	0.01	<0.005	0.009	<0.001	<0.05	0.2	<0.01	0.08	<0.5	<0.5
W443952		<1	12.3	1.43	85	0.6	0.04	<0.005	0.009	0.001	0.05	1.8	0.04	0.10	<0.5	0.6
W443953		<1	9.5	1.08	87	0.6	0.03	<0.005	0.009	0.001	<0.05	0.9	0.02	0.11	<0.5	0.5
W443954		<1	4.4	0.38	143	<0.1	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W443955		<1	4.2	0.41	147	0.1	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443956		1	4.0	0.39	146	0.1	0.02	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443957		3	12.2	1.24	96	4.5	0.73	0.010	0.067	0.006	0.38	4.9	0.55	0.09	1.9	1.6
W443958		<1	3.9	0.35	149	<0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443959		115	6.0	0.65	107	0.4	0.02	<0.005	0.009	0.001	<0.05	0.3	0.01	0.08	<0.5	<0.5
W443960		<1	5.7	0.53	115	0.1	0.01	<0.005	0.018	<0.001	<0.05	<0.2	<0.01	0.13	<0.5	<0.5
W443961		15	5.8	0.52	129	<0.1	0.01	<0.005	0.008	<0.001	<0.05	0.3	0.01	0.08	<0.5	<0.5
W443962		1	9.0	0.97	102	0.5	0.02	<0.005	0.009	0.001	<0.05	1.0	0.02	0.11	<0.5	0.6
W443963		<1	7.8	0.87	110	0.2	0.01	<0.005	0.008	0.001	<0.05	0.3	0.01	0.11	<0.5	<0.5
W443964		1	4.9	0.43	124	0.2	0.01	<0.005	0.009	<0.001	<0.05	0.4	<0.01	0.05	<0.5	<0.5
W443965		<1	3.9	0.33	155	0.1	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443966		<1	13.6	1.59	64	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.5	0.02	0.12	<0.5	0.6
W443967		<1	4.0	0.31	155	0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443968		1	4.9	0.53	139	0.2	0.01	0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443969		1	11.1	1.20	79	0.3	0.01	0.006	0.010	<0.001	<0.05	0.4	0.03	0.07	<0.5	<0.5
W443970		<1	6.6	0.67	152	0.3	0.01	0.006	0.010	<0.001	<0.05	0.2	0.02	0.09	<0.5	<0.5
W443971		1	4.3	0.33	177	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443972		<1	4.7	0.34	182	0.2	0.01	0.006	0.006	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443973		1	3.5	0.29	174	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443974		1	4.0	0.28	172	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443975		<1	4.3	0.34	169	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443976		<1	3.7	0.30	156	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.05	<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: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443937		15	94	10	2	6	9	17	64	<0.001	<0.005	0.002	0.023
W443938		148	5500	40	3	2120	4	24	74	0.097	0.709	0.371	10.90
W443939		50	130	20	<1	159	3	39	102	<0.001	0.012	0.016	0.433
W443940		51	191	20	<1	161	5	41	108	0.001	0.011	0.015	0.900
W443941		21	91	20	1	63	9	17	81	<0.001	<0.005	0.006	0.679
W443942		7	17	10	<1	7	5	4	26	<0.001	<0.005	<0.001	0.073
W443943		13	25	30	1	27	5	8	31	<0.001	<0.005	0.002	0.106
W443944		14	23	20	<1	18	3	6	37	<0.001	<0.005	0.001	0.126
W443945		7	12	10	<1	10	4	3	29	0.006	<0.005	<0.001	0.094
W443946		7	11	20	<1	10	3	4	30	<0.001	<0.005	0.001	0.040
W443947		7	9	20	<1	12	4	4	38	<0.001	<0.005	<0.001	0.047
W443948		6	6	20	<1	11	5	4	32	<0.001	<0.005	<0.001	0.040
W443949		36	94	20	<1	86	5	24	70	<0.001	0.006	0.008	0.691
W443950		6	16	10	1	9	2	3	24	<0.001	<0.005	<0.001	0.148
W443951		5	12	20	<1	9	<2	3	25	<0.001	<0.005	<0.001	0.109
W443952		32	235	20	<1	98	5	31	57	0.001	0.007	0.011	1.490
W443953		34	119	10	<1	80	6	22	59	0.001	0.005	0.008	0.865
W443954		8	18	20	<1	12	6	3	33	<0.001	<0.005	<0.001	0.070
W443955		9	17	20	<1	10	7	4	30	<0.001	<0.005	0.001	0.042
W443956		9	34	30	1	12	4	4	44	<0.001	<0.005	<0.001	0.058
W443957		112	4500	20	4	4320	21	12	105	0.095	0.288	0.597	4.98
W443958		8	12	10	<1	15	6	3	31	<0.001	<0.005	0.001	0.058
W443959		16	43	20	<1	45	7	13	45	<0.001	<0.005	0.004	0.342
W443960		19	17	30	1	47	4	11	55	<0.001	<0.005	0.004	0.203
W443961		7	33	10	1	12	4	4	33	<0.001	<0.005	0.001	0.247
W443962		25	121	20	<1	74	5	19	117	<0.001	<0.005	0.007	0.762
W443963		19	44	20	1	54	6	15	55	<0.001	<0.005	0.005	0.337
W443964		8	24	20	<1	11	7	4	38	<0.001	<0.005	0.001	0.189
W443965		10	17	20	<1	16	6	5	45	<0.001	<0.005	0.001	0.062
W443966		34	64	30	<1	107	6	32	82	<0.001	0.006	0.013	0.308
W443967		7	11	20	1	13	5	3	30	<0.001	<0.005	<0.001	0.047
W443968		5	5	10	1	9	4	3	19	<0.001	<0.005	<0.001	0.007
W443969		29	46	20	1	83	10	22	71	<0.001	0.005	0.008	0.256
W443970		19	43	20	<1	42	3	11	64	<0.001	<0.005	0.003	0.281
W443971		7	9	20	<1	13	2	3	23	<0.001	<0.005	<0.001	0.040
W443972		7	7	20	<1	9	5	3	33	<0.001	<0.005	<0.001	0.011
W443973		6	5	10	1	10	<2	3	24	<0.001	<0.005	<0.001	0.016
W443974		7	9	10	<1	10	3	3	23	<0.001	<0.005	<0.001	0.019
W443975		7	9	10	<1	10	2	3	24	<0.001	<0.005	<0.001	0.023
W443976		5	6	20	1	7	5	3	24	<0.001	<0.005	0.001	0.008

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

Finalized Date: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443977		0.04	60.9	16.45	5.98	6.21	2.74	3.44	1.51	<0.01	0.50	0.12	0.15	0.04	0.07	1.02
W443978		2.17	74.1	13.25	3.07	1.95	0.79	2.73	1.79	<0.01	0.31	0.06	0.07	0.01	0.03	1.12
W443979		2.31	74.0	13.45	2.97	2.81	0.80	3.04	1.52	<0.01	0.28	0.08	0.10	0.01	0.03	1.39
W443980		2.18	75.7	12.40	2.84	3.20	0.84	2.65	1.06	<0.01	0.26	0.09	0.08	0.01	0.03	1.28
W443981		2.24	75.4	12.55	2.91	1.50	0.93	1.82	1.70	<0.01	0.30	0.05	0.08	0.01	0.04	1.29
W443982		2.21	77.0	12.90	2.84	1.77	0.99	1.95	1.77	<0.01	0.31	0.06	0.07	0.01	0.05	1.59
W443983		2.42	74.3	14.05	2.87	2.58	0.97	3.30	1.54	<0.01	0.31	0.06	0.09	0.01	0.04	1.29
W443984		2.44	74.3	13.65	2.73	3.12	1.21	3.48	1.40	<0.01	0.31	0.08	0.10	0.01	0.03	1.17
W443985		2.58	74.0	13.20	2.95	1.89	0.97	4.17	1.73	<0.01	0.31	0.06	0.09	0.01	0.03	0.82
W443986		2.62	73.9	12.80	3.55	2.99	1.17	3.89	1.28	<0.01	0.29	0.08	0.07	0.01	0.02	1.00
W443987		2.46	74.5	11.50	3.60	3.59	1.30	3.33	1.02	<0.01	0.25	0.08	0.07	0.01	0.02	1.04
W443988		2.28	72.8	11.70	3.40	5.28	1.63	2.79	0.84	<0.01	0.23	0.10	0.10	0.01	0.02	1.04
W443989		2.23	75.5	11.00	3.20	4.40	1.44	3.12	0.66	<0.01	0.24	0.09	0.07	0.01	0.02	0.95
W443990		2.18	74.8	12.25	3.65	3.17	1.48	3.84	0.72	<0.01	0.25	0.09	0.09	<0.01	0.02	0.95
W443991		1.91	75.9	12.40	2.84	2.20	1.23	4.34	0.84	<0.01	0.29	0.05	0.06	<0.01	0.02	0.63
W443992		2.16	73.7	12.65	3.25	2.29	1.34	4.69	0.83	<0.01	0.28	0.06	0.09	0.01	0.02	0.80
W443993		2.07	76.6	11.70	3.56	1.84	1.44	4.25	0.97	<0.01	0.29	0.06	0.08	0.01	0.02	0.70
W443994		1.79	72.5	11.40	3.55	4.67	1.70	3.41	0.36	<0.01	0.25	0.09	0.08	0.01	0.01	1.37
W443995		2.64	52.6	14.70	11.00	9.77	5.35	2.64	0.41	0.03	0.82	0.20	0.09	0.02	0.01	1.88
W443996		2.31	46.7	15.15	13.65	12.20	6.58	1.93	0.42	0.04	0.90	0.22	0.04	0.01	0.01	1.46
W443997		0.08	36.7	8.15	13.70	14.20	9.81	0.54	0.20	0.10	0.64	0.13	0.11	<0.01	0.03	3.69
W443998		2.41	50.0	14.45	12.60	9.95	6.84	2.31	0.66	0.04	0.81	0.20	0.07	0.01	0.01	1.30
W443999		2.51	47.9	14.50	13.95	11.60	6.00	1.92	0.60	0.03	1.04	0.22	0.08	0.01	0.01	1.60
W444000		2.57	52.5	14.60	10.95	10.50	4.21	2.38	0.55	0.03	0.84	0.16	0.08	0.01	0.01	1.28
W870001		2.57	46.6	14.55	12.95	12.60	6.25	1.69	0.71	0.04	0.81	0.20	0.08	0.01	0.01	1.91
W870002		2.67	47.3	14.65	12.35	11.80	7.81	1.72	0.41	0.05	0.70	0.20	0.04	0.01	0.01	1.94
W870003		2.47	60.5	14.80	6.48	7.53	3.63	3.07	0.79	0.02	0.45	0.11	0.06	0.01	0.02	1.44
W870004		2.46	57.2	13.70	6.41	6.82	3.99	2.75	0.65	0.02	0.41	0.10	0.04	0.01	0.01	1.17
W870005		3.17	48.5	14.75	11.90	11.00	8.04	1.79	0.32	0.05	0.70	0.19	0.04	0.01	0.01	1.38
W870006		1.61	70.3	14.90	2.76	2.79	1.34	4.83	1.35	<0.01	0.27	0.03	0.07	0.01	0.02	0.58
W870007		2.62	68.0	16.40	3.18	4.14	1.60	4.39	1.43	0.01	0.31	0.04	0.05	0.01	0.02	0.88
W870008		2.47	57.9	18.05	5.88	6.84	3.63	3.48	1.45	0.02	0.49	0.10	0.05	0.01	0.03	1.70
W870009		2.18	70.7	15.25	2.83	2.71	1.52	4.08	1.25	<0.01	0.29	0.05	0.07	0.01	0.03	1.45
W870010		2.25	68.3	14.15	2.69	5.53	2.12	2.84	1.03	<0.01	0.21	0.09	0.08	0.01	0.02	1.44
W870011		2.26	71.9	13.55	3.38	4.19	2.13	2.52	1.10	<0.01	0.27	0.08	0.07	0.01	0.03	1.54
W870012		2.35	73.5	14.40	3.55	1.87	1.49	3.36	1.46	<0.01	0.34	0.06	0.07	0.01	0.05	1.43
W870013		2.28	73.1	13.80	3.02	2.55	0.86	3.98	1.27	<0.01	0.27	0.07	0.10	0.02	0.04	0.97
W870014		0.08	46.6	12.90	20.6	6.24	6.76	2.20	0.63	0.03	1.27	0.20	0.17	0.03	0.02	1.10

***** 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: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443977		99.13	0.04	0.01	567	28.8	10	0.69	3.84	2.46	0.94	14.9	3.72	<5	3.6	0.82
W443978		99.28	0.08	0.05	302	57.2	30	1.65	0.94	0.37	0.65	16.5	1.57	<5	3.5	0.15
W443979		100.48	0.11	0.04	325	47.7	20	1.69	1.03	0.50	0.67	17.2	1.47	<5	3.5	0.19
W443980		100.44	0.10	0.02	232	45.2	30	1.31	0.88	0.41	0.63	15.6	1.50	<5	3.1	0.16
W443981		98.58	0.05	0.02	375	46.9	20	1.64	0.72	0.35	0.60	16.0	1.38	<5	3.4	0.13
W443982		101.31	0.08	0.03	428	50.4	20	1.76	0.78	0.36	0.53	16.4	1.44	<5	3.4	0.14
W443983		101.41	0.12	0.05	368	54.0	20	1.10	0.95	0.45	0.68	17.4	1.59	<5	3.5	0.18
W443984		101.59	0.14	0.07	316	57.4	20	0.99	1.05	0.45	0.77	17.2	1.74	<5	3.4	0.19
W443985		100.23	0.08	0.03	244	54.0	20	1.34	1.00	0.39	0.65	16.5	1.66	<5	3.7	0.17
W443986		101.05	0.15	0.06	196.0	52.6	20	1.39	0.97	0.43	0.66	15.6	1.65	<5	3.6	0.17
W443987		100.31	0.18	0.07	175.0	46.6	20	1.40	0.93	0.45	0.55	14.6	1.45	<5	3.0	0.17
W443988		99.94	0.13	0.07	182.5	48.1	20	1.57	1.04	0.45	0.62	14.8	1.67	<5	2.8	0.21
W443989		100.70	0.11	0.08	160.0	40.4	20	0.90	0.99	0.40	0.53	13.5	1.48	<5	2.9	0.17
W443990		101.31	0.11	0.07	161.0	39.8	20	0.78	0.97	0.44	0.56	16.0	1.50	<5	3.0	0.17
W443991		100.80	0.06	0.04	196.5	60.1	20	1.26	1.00	0.46	0.57	14.7	1.75	<5	3.5	0.17
W443992		100.01	0.05	0.04	159.5	60.8	20	1.48	1.05	0.47	0.66	15.3	1.71	<5	3.4	0.17
W443993		101.52	0.05	0.02	173.5	52.6	20	1.33	0.95	0.43	0.53	15.1	1.52	<5	3.2	0.16
W443994		99.40	0.18	0.09	120.0	45.6	20	0.80	1.12	0.57	0.57	13.7	1.70	<5	2.7	0.21
W443995		99.52	0.13	0.37	94.4	14.5	220	1.04	2.93	1.88	0.75	16.7	2.34	<5	1.8	0.63
W443996		99.31	0.15	0.49	71.4	7.5	260	0.47	3.37	2.36	0.79	16.4	2.81	<5	1.4	0.75
W443997		88.00	0.22	2.68	260	18.1	660	0.39	2.28	1.34	0.69	9.0	2.45	<5	1.8	0.47
W443998		99.25	0.16	0.28	84.7	7.8	250	2.75	3.06	2.22	0.72	15.7	2.52	<5	1.3	0.70
W443999		99.46	0.14	0.73	89.6	8.9	210	0.66	3.95	2.65	0.88	16.7	3.25	<5	1.7	0.88
W444000		98.10	0.15	0.74	120.0	11.5	190	2.46	3.50	2.32	0.75	17.6	3.01	<5	1.8	0.75
W870001		98.41	0.37	0.64	127.0	6.3	310	1.08	3.07	2.03	0.73	15.7	2.55	<5	1.2	0.68
W870002		98.99	0.28	0.43	58.7	5.3	360	0.63	2.75	1.83	0.64	14.7	2.30	<5	1.0	0.63
W870003		98.91	0.13	0.11	144.0	16.6	160	0.81	1.68	1.00	0.56	16.8	1.74	<5	2.6	0.34
W870004		93.28	0.11	0.04	117.5	13.8	160	1.27	1.59	0.96	0.51	15.1	1.54	<5	2.3	0.33
W870005		98.68	0.15	0.13	50.1	6.1	350	0.57	2.71	1.88	0.62	15.0	2.25	<5	1.1	0.58
W870006		99.25	0.06	0.01	168.0	23.1	20	2.74	0.79	0.34	0.52	17.4	1.29	<5	3.8	0.14
W870007		100.46	0.08	0.10	193.5	23.0	40	4.46	0.85	0.38	0.54	18.3	1.18	<5	4.0	0.15
W870008		99.63	0.09	0.11	247	20.1	120	4.01	1.35	0.81	0.62	20.5	1.44	<5	3.8	0.27
W870009		100.24	0.02	0.02	271	24.6	20	2.14	0.79	0.36	0.51	17.2	1.24	<5	3.8	0.13
W870010		98.51	0.10	0.02	219	23.4	20	1.75	1.16	0.65	0.54	16.4	1.45	<5	3.2	0.19
W870011		100.77	0.11	0.03	279	42.9	20	1.65	1.10	0.47	0.65	17.2	1.71	<5	3.6	0.17
W870012		101.59	0.03	0.04	438	61.3	20	1.78	1.09	0.45	0.71	19.7	1.87	<5	4.1	0.17
W870013		100.05	0.11	0.06	382	52.7	20	1.66	1.14	0.55	0.61	18.2	1.67	<5	3.7	0.21
W870014		98.75	0.06	1.71	231	28.6	270	1.01	2.86	1.62	1.20	16.9	3.08	<5	2.7	0.52

***** 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: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443977		12.8	0.40	3.1	16.9	3.92	26.4	4.10	1	480	0.2	0.62	2.70	0.37	1.12	155
W443978		30.9	0.05	4.3	18.9	5.87	30.3	2.51	1	137.5	0.3	0.20	5.05	0.05	0.66	34
W443979		25.6	0.08	4.6	15.7	4.84	37.1	2.35	<1	141.5	0.4	0.21	4.54	0.07	1.28	34
W443980		24.6	0.06	4.1	15.0	4.71	27.6	2.19	<1	125.0	0.3	0.21	4.24	0.06	0.72	31
W443981		25.2	0.05	3.7	16.1	4.92	28.7	2.20	<1	95.8	0.3	0.15	4.75	0.04	0.62	35
W443982		27.3	0.05	3.9	16.6	5.21	31.7	2.37	1	100.5	0.3	0.16	4.89	0.06	0.76	35
W443983		29.4	0.05	4.3	18.2	5.62	32.1	2.59	<1	143.5	0.3	0.22	5.01	0.07	0.57	34
W443984		31.0	0.07	4.5	19.2	5.84	25.0	2.75	<1	134.0	0.3	0.21	5.36	0.06	0.65	34
W443985		29.0	0.06	4.6	18.0	5.56	36.1	2.48	<1	106.5	0.4	0.20	5.07	0.05	0.71	34
W443986		29.0	0.07	4.1	17.5	5.37	30.5	2.54	<1	87.5	0.3	0.20	4.80	0.06	0.79	30
W443987		25.3	0.06	3.9	15.4	4.78	29.0	2.21	1	81.4	0.3	0.20	4.23	0.06	0.69	27
W443988		27.4	0.07	4.0	15.8	4.81	25.0	2.32	<1	95.1	0.4	0.20	3.94	0.08	1.00	24
W443989		22.2	0.06	3.7	14.1	4.23	16.1	2.25	<1	82.3	0.3	0.19	3.90	0.06	0.81	25
W443990		21.6	0.06	3.9	14.3	4.30	14.4	2.11	<1	78.5	0.3	0.19	4.32	0.07	0.75	37
W443991		32.5	0.05	3.8	19.4	6.07	20.9	2.52	<1	89.7	0.3	0.21	5.22	0.06	0.65	35
W443992		33.7	0.07	4.2	19.7	6.23	20.0	2.56	<1	97.7	0.4	0.22	4.67	0.07	0.75	33
W443993		28.5	0.06	4.0	17.6	5.40	22.8	2.34	1	79.0	0.3	0.19	4.85	0.06	0.65	34
W443994		25.1	0.08	3.5	15.0	4.60	8.6	2.16	<1	101.5	0.3	0.20	4.11	0.08	0.78	32
W443995		6.8	0.29	2.6	7.8	1.81	11.6	2.07	1	142.5	0.2	0.45	1.03	0.27	0.25	301
W443996		2.7	0.33	2.0	6.1	1.19	11.4	2.05	1	104.0	0.1	0.51	0.20	0.35	0.06	353
W443997		8.8	0.19	5.5	9.7	2.29	4.5	2.33	2	60.1	0.3	0.40	1.69	0.20	0.84	179
W443998		3.0	0.32	2.7	6.0	1.23	24.0	1.90	1	101.0	0.3	0.46	0.37	0.31	0.48	310
W443999		3.2	0.39	2.6	7.2	1.39	14.5	2.38	1	109.0	0.2	0.60	0.28	0.40	0.16	359
W444000		4.9	0.35	3.3	7.5	1.60	21.0	2.16	1	97.0	0.4	0.52	1.13	0.35	0.97	306
W870001		2.3	0.31	2.9	5.2	0.98	19.1	1.92	1	107.0	0.1	0.45	0.16	0.31	0.42	324
W870002		1.9	0.27	2.9	4.5	0.86	11.2	1.62	1	93.6	0.1	0.41	0.13	0.26	0.56	304
W870003		9.1	0.15	3.0	7.5	1.91	24.2	1.72	1	115.5	0.2	0.27	1.37	0.14	0.35	141
W870004		7.5	0.13	2.8	6.3	1.57	20.7	1.51	1	111.5	0.2	0.26	1.24	0.14	0.43	135
W870005		2.3	0.28	1.6	4.7	0.93	9.8	1.73	<1	97.3	0.1	0.40	0.20	0.28	0.08	296
W870006		13.2	0.04	4.1	8.7	2.43	42.2	1.60	<1	102.5	0.3	0.16	2.31	0.05	0.53	27
W870007		13.2	0.06	3.6	8.8	2.45	53.5	1.61	<1	130.5	0.4	0.16	2.45	0.06	0.55	45
W870008		11.8	0.12	3.6	7.7	2.14	55.0	1.53	1	133.0	0.7	0.23	2.25	0.12	0.71	124
W870009		14.1	0.04	4.1	9.2	2.62	39.3	1.67	1	111.5	0.4	0.16	2.21	0.05	0.62	27
W870010		13.2	0.07	3.6	8.8	2.49	30.6	1.65	1	87.5	0.4	0.20	2.35	0.10	1.40	21
W870011		22.7	0.06	5.3	15.4	4.61	33.1	2.30	1	112.5	0.4	0.21	4.14	0.05	0.87	31
W870012		33.2	0.06	4.7	20.6	6.27	38.7	2.81	1	146.5	0.3	0.23	6.08	0.05	0.88	43
W870013		29.0	0.08	4.6	17.2	5.34	36.5	2.43	1	213	0.4	0.22	4.95	0.08	0.90	31
W870014		13.0	0.21	7.7	14.4	3.55	17.4	3.19	4	284	0.5	0.51	1.68	0.20	0.53	137

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

Finalized Date: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443977		5	22.6	2.47	134	1.0	0.06	<0.005	0.010	<0.001	0.14	<0.2	<0.01	0.04	<0.5	<0.5
W443978		1	4.3	0.31	152	0.1	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443979		<1	5.2	0.48	151	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443980		<1	4.5	0.41	138	0.2	<0.01	0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443981		<1	3.5	0.29	152	0.1	<0.01	0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443982		1	3.8	0.28	147	<0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W443983		<1	4.9	0.32	154	<0.1	<0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443984		<1	5.3	0.40	149	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443985		3	4.5	0.33	156	0.1	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443986		<1	4.9	0.43	154	<0.1	0.01	<0.005	0.009	<0.001	<0.05	0.2	0.01	0.10	<0.5	<0.5
W443987		1	4.8	0.34	131	0.1	0.01	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.11	<0.5	<0.5
W443988		<1	6.1	0.45	120	0.2	0.01	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.06	<0.5	<0.5
W443989		1	5.1	0.39	125	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443990		<1	5.0	0.44	136	0.1	<0.01	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
W443991		1	4.6	0.35	153	0.2	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443992		<1	4.9	0.38	146	0.1	0.01	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.07	<0.5	<0.5
W443993		1	4.5	0.38	147	0.1	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443994		<1	6.3	0.47	122	0.3	0.01	<0.005	0.007	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W443995		1	16.2	1.76	71	0.5	0.03	<0.005	0.011	0.001	<0.05	0.4	0.03	0.04	<0.5	<0.5
W443996		1	20.3	2.22	52	0.4	0.02	0.005	0.008	0.001	<0.05	0.4	0.04	0.06	<0.5	<0.5
W443997		1	13.1	1.22	72	44.7	0.33	0.127	0.051	0.017	1.22	12.7	1.41	0.06	2.9	0.8
W443998		<1	18.7	1.94	48	0.6	0.02	<0.005	0.011	0.001	<0.05	0.3	0.02	0.11	<0.5	<0.5
W443999		1	23.2	2.50	63	0.6	0.03	<0.005	0.010	0.002	<0.05	0.7	0.05	0.04	<0.5	0.5
W444000		1	20.4	2.24	65	0.4	0.03	0.006	0.012	0.001	0.07	0.9	0.05	0.09	<0.5	<0.5
W870001		1	18.2	1.93	45	0.4	0.03	<0.005	0.010	0.001	0.05	0.6	0.06	0.07	<0.5	0.5
W870002		1	16.4	1.74	37	0.4	0.02	<0.005	0.007	0.001	<0.05	0.4	0.03	0.06	<0.5	<0.5
W870003		<1	9.5	0.94	110	0.1	0.01	0.009	0.007	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W870004		<1	9.0	0.92	97	0.3	0.01	0.006	0.008	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W870005		<1	16.2	1.72	42	0.4	0.01	0.006	0.005	0.001	<0.05	0.5	0.02	0.02	<0.5	<0.5
W870006		1	3.9	0.26	165	0.3	0.01	<0.005	0.007	<0.001	0.05	<0.2	<0.01	0.15	<0.5	<0.5
W870007		<1	4.3	0.36	169	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.17	<0.5	<0.5
W870008		1	7.7	0.79	158	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.14	<0.5	<0.5
W870009		<1	3.7	0.30	158	0.3	0.01	0.006	0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W870010		1	6.4	0.58	129	0.2	0.01	0.006	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870011		1	4.9	0.39	151	0.2	0.01	0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870012		1	4.7	0.36	173	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W870013		<1	5.7	0.49	158	0.2	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W870014		4	14.5	1.39	107	3.9	0.72	0.011	0.066	0.004	0.30	4.7	0.58	0.09	1.7	0.8

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

ALS Canada Ltd.

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

Finalized Date: 5-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18034378

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
W443977		16	90	10	2	7	6	17	64	0.004	<0.005	0.005	0.026
W443978		6	6	20	<1	8	4	3	29	<0.001	<0.005	<0.001	0.004
W443979		5	4	20	<1	6	4	3	24	<0.001	<0.005	0.001	0.004
W443980		4	2	20	<1	6	4	3	22	<0.001	<0.005	<0.001	0.003
W443981		6	2	30	<1	8	6	3	28	<0.001	<0.005	<0.001	0.003
W443982		7	4	20	1	9	9	3	37	<0.001	<0.005	<0.001	0.010
W443983		6	7	20	<1	10	5	4	32	<0.001	<0.005	0.001	0.025
W443984		6	12	10	<1	8	7	3	34	<0.001	<0.005	<0.001	0.051
W443985		5	6	20	<1	8	4	3	25	<0.001	<0.005	<0.001	0.039
W443986		7	8	20	<1	8	<2	3	28	<0.001	<0.005	<0.001	0.049
W443987		6	13	20	<1	7	2	3	30	<0.001	<0.005	<0.001	0.055
W443988		5	16	10	<1	5	5	3	31	<0.001	<0.005	<0.001	0.065
W443989		5	15	10	1	7	2	3	27	<0.001	<0.005	<0.001	0.061
W443990		7	13	10	<1	7	3	4	31	<0.001	<0.005	<0.001	0.067
W443991		7	4	20	<1	8	2	4	26	<0.001	<0.005	<0.001	0.019
W443992		4	16	20	1	9	<2	4	31	<0.001	<0.005	<0.001	0.027
W443993		7	4	20	1	9	2	4	35	<0.001	<0.005	<0.001	0.022
W443994		9	51	20	1	13	4	3	39	<0.001	<0.005	<0.001	0.119
W443995		41	207	20	1	98	5	35	102	0.003	<0.005	0.003	0.370
W443996		52	190	20	1	131	5	42	106	0.003	0.005	0.004	0.400
W443997		149	5320	40	3	2070	7	24	72	0.122	0.712	0.368	9.40
W443998		46	102	20	1	119	2	36	90	<0.001	<0.005	0.004	0.304
W443999		48	178	20	1	110	3	39	100	0.001	<0.005	0.002	0.587
W444000		41	183	10	1	96	4	35	84	0.001	<0.005	0.004	0.747
W870001		50	156	20	<1	145	6	41	106	0.001	0.007	0.010	0.535
W870002		51	126	20	<1	154	<2	37	93	0.003	0.010	0.017	0.463
W870003		23	70	20	1	68	5	18	61	<0.001	<0.005	0.006	0.108
W870004		25	28	20	<1	72	2	19	57	<0.001	<0.005	0.007	0.083
W870005		45	115	20	1	145	5	37	80	0.002	0.008	0.015	0.282
W870006		6	2	30	1	10	5	3	37	<0.001	<0.005	<0.001	0.007
W870007		8	24	20	1	19	5	5	37	<0.001	<0.005	0.001	0.066
W870008		18	25	20	<1	50	3	12	51	<0.001	<0.005	0.006	0.088
W870009		5	3	30	<1	8	2	3	31	<0.001	<0.005	0.001	0.012
W870010		4	4	20	7	6	4	3	32	<0.001	<0.005	<0.001	0.016
W870011		5	6	20	3	10	5	3	36	<0.001	<0.005	<0.001	0.010
W870012		6	8	20	1	10	4	4	34	<0.001	<0.005	0.001	0.013
W870013		5	9	20	1	8	3	3	24	<0.001	<0.005	0.001	0.023
W870014		113	4350	20	5	4250	26	12	100	0.097	0.293	0.597	4.46

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

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Finalized Date: 5-MAR-2018
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CERTIFICATE OF ANALYSIS TB18034378

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		