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: 8-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18012296

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-JAN-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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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
W443313		1.51	22.0	1.08	0.21	24.4	18.80	0.33	0.46	<0.01	0.02	0.04	0.01	0.01	0.05	31.5
W443314		0.04	42.1	9.02	15.00	15.75	10.75	0.60	0.24	0.10	0.70	0.14	0.12	0.01	0.03	4.15
W443315		2.53	49.4	14.50	13.60	9.67	8.17	2.76	0.34	0.04	0.81	0.22	0.07	0.01	0.01	1.04
W443316		2.61	49.6	14.70	13.85	10.65	7.97	2.56	0.38	0.04	0.81	0.21	0.04	0.01	0.01	0.94
W443317		2.53	48.8	14.45	13.75	10.10	8.05	2.40	0.44	0.04	0.82	0.21	0.05	0.01	0.01	1.04
W443318		2.44	49.6	14.75	13.70	10.20	7.70	2.37	0.52	0.04	0.77	0.20	0.05	0.01	0.01	1.12
W443319		2.56	49.0	14.50	13.20	10.45	7.32	2.17	0.36	0.04	0.80	0.20	0.05	0.01	0.01	1.04
W443320		2.56	49.3	14.65	13.60	10.35	7.85	2.37	0.40	0.04	0.80	0.21	0.05	0.01	0.01	0.94
W443321		2.39	48.4	15.00	13.75	10.55	7.52	1.98	0.53	0.04	0.83	0.20	0.05	0.01	0.01	1.12
W443322		2.60	49.9	14.50	13.55	10.25	8.12	2.18	0.58	0.04	0.77	0.20	0.04	0.01	0.01	1.27
W443323		2.45	49.3	14.10	13.55	10.90	7.89	1.75	0.47	0.04	0.79	0.21	0.06	0.02	0.01	1.40
W443324		2.49	48.0	14.65	13.50	9.90	8.04	2.16	0.59	0.04	0.78	0.21	0.04	0.01	0.01	1.16
W443325		2.46	49.0	14.75	13.80	9.66	8.25	2.34	0.36	0.04	0.78	0.21	0.05	0.01	0.01	0.99
W443326		2.52	49.1	14.60	13.60	10.25	7.91	2.30	0.25	0.04	0.82	0.21	0.07	0.01	<0.01	0.94
W443327		2.56	49.5	14.35	13.90	10.60	8.35	2.21	0.34	0.04	0.80	0.21	0.05	0.01	0.01	1.01
W443328		2.54	49.2	14.80	13.45	10.70	7.99	2.24	0.29	0.04	0.79	0.21	0.05	0.01	0.01	0.68
W443329		2.54	48.5	14.65	13.30	10.75	7.88	2.12	0.30	0.04	0.77	0.21	0.05	0.01	0.01	0.77
W443330		2.58	48.7	14.00	13.30	9.97	7.88	2.31	0.34	0.04	0.78	0.20	0.06	0.01	0.01	0.87
W443331		2.60	51.1	14.25	13.00	10.15	7.86	2.15	0.42	0.04	0.71	0.20	0.05	0.01	0.01	0.77
W443332		2.39	48.6	14.30	13.35	10.35	7.91	2.27	0.24	0.04	0.79	0.20	0.06	0.01	0.01	0.84
W443333		0.04	46.2	12.65	20.7	6.22	6.62	2.12	0.62	0.03	1.25	0.19	0.15	0.03	0.02	1.26
W443334		2.44	50.9	14.00	12.15	11.65	6.85	1.66	0.20	0.03	0.74	0.18	0.05	0.01	<0.01	1.11
W443335		2.55	48.6	14.55	13.55	10.50	7.97	2.30	0.30	0.04	0.80	0.21	0.06	0.01	0.01	1.04
W443336		2.57	49.7	14.50	13.35	10.70	7.66	1.94	0.47	0.04	0.75	0.20	0.05	0.01	0.01	0.99
W443337		2.51	48.7	14.65	12.75	10.40	7.67	2.22	0.42	0.04	0.73	0.20	0.06	0.01	0.01	0.96
W443338		2.54	48.1	14.25	12.80	10.60	7.56	2.35	0.40	0.04	0.74	0.19	0.05	0.01	0.01	1.27
W443339		2.53	48.2	14.50	13.00	10.55	7.65	2.10	0.35	0.04	0.77	0.20	0.05	0.01	0.01	0.85
W443340		2.48	48.3	14.35	13.20	10.60	7.95	2.25	0.29	0.04	0.77	0.20	0.05	0.01	0.01	0.90
W443341		2.45	48.4	14.15	12.90	9.80	7.78	2.45	0.29	0.04	0.73	0.19	0.05	0.01	<0.01	0.86
W443342		2.66	49.2	14.55	13.45	10.40	8.04	2.35	0.34	0.04	0.79	0.20	0.05	0.01	0.01	0.97
W443343		2.49	49.4	14.70	13.40	10.50	8.12	2.42	0.34	0.04	0.78	0.21	0.06	0.01	0.01	0.96
W443344		2.69	49.4	14.90	13.70	10.95	7.96	2.15	0.37	0.04	0.79	0.21	0.05	0.01	0.01	0.84
W443345		2.46	49.9	14.20	13.05	10.30	8.01	2.25	0.32	0.04	0.72	0.20	0.05	0.01	0.01	0.87
W443346		2.49	49.4	14.65	13.45	10.25	7.85	2.40	0.32	0.04	0.73	0.20	0.05	0.01	0.01	0.98
W443347		2.27	48.6	14.65	13.45	10.45	7.93	2.31	0.42	0.04	0.78	0.21	0.05	0.01	0.01	0.99
W443348		2.54	48.8	14.65	13.40	10.50	7.96	2.32	0.50	0.04	0.78	0.21	0.05	0.01	0.01	1.09
W443349		2.56	47.9	14.10	12.70	9.70	7.63	2.52	0.54	0.04	0.70	0.19	0.06	0.01	0.01	1.33
W443350		2.44	49.4	15.25	12.80	10.40	8.32	2.41	0.40	0.04	0.71	0.20	0.05	0.01	0.01	1.21
W443351		2.41	48.6	14.45	12.70	10.35	8.14	2.25	0.39	0.04	0.68	0.21	0.05	0.01	0.01	1.17
W443352		2.44	48.3	14.70	12.75	10.55	8.05	2.21	0.39	0.04	0.72	0.20	0.06	0.01	0.01	1.29

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Finalized Date: 8-FEB-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443313		98.91	8.64	0.01	489	2.3	<10	0.57	0.19	0.10	0.04	1.0	0.20	<5	0.3	0.04
W443314		98.71	0.25	2.54	309	19.7	750	0.40	2.57	1.56	0.72	10.6	2.72	<5	2.1	0.54
W443315		100.64	0.03	0.15	66.1	5.6	230	0.26	2.68	1.91	0.52	14.5	2.15	<5	1.2	0.60
W443316		101.77	0.02	0.08	74.5	7.0	250	0.34	3.19	1.93	0.62	14.8	2.30	<5	1.3	0.63
W443317		100.17	0.01	0.08	72.9	5.7	240	0.43	2.89	1.85	0.61	13.6	2.30	<5	1.2	0.60
W443318		101.04	0.02	0.07	84.2	5.8	240	0.59	2.63	1.80	0.60	15.6	2.27	<5	1.2	0.61
W443319		99.15	0.02	0.09	63.5	6.1	250	0.39	2.84	1.92	0.67	16.9	2.32	<5	1.3	0.60
W443320		100.58	0.02	0.09	65.7	6.2	260	0.29	3.00	2.09	0.69	16.7	2.41	<5	1.2	0.65
W443321		99.99	0.04	0.10	92.9	6.5	280	0.60	2.98	2.11	0.66	17.7	2.59	<5	1.4	0.67
W443322		101.42	0.03	0.10	95.0	6.0	250	0.41	2.89	1.99	0.66	16.3	2.40	<5	1.3	0.61
W443323		100.49	0.03	0.09	92.4	6.0	260	0.36	2.72	1.85	0.66	16.3	2.35	<5	1.2	0.61
W443324		99.09	0.02	0.13	88.9	5.9	280	0.44	2.87	1.88	0.63	15.6	2.08	<5	1.4	0.60
W443325		100.25	0.01	0.06	51.3	5.9	260	0.25	2.80	1.88	0.64	15.0	2.18	<5	1.4	0.59
W443326		100.10	0.01	0.08	45.5	6.3	260	0.20	3.05	1.95	0.72	16.7	2.44	<5	1.3	0.66
W443327		101.38	0.03	0.06	55.6	6.3	280	0.47	2.94	2.03	0.63	16.0	2.43	<5	1.2	0.65
W443328		100.46	0.01	0.07	53.8	6.5	290	0.38	3.19	2.16	0.71	17.1	2.48	<5	1.4	0.69
W443329		99.36	0.01	0.08	57.2	5.9	280	0.50	2.75	1.89	0.62	15.5	2.32	<5	1.2	0.65
W443330		98.47	0.01	0.05	67.2	5.9	280	0.45	2.89	1.85	0.66	16.8	2.34	<5	1.2	0.64
W443331		100.72	0.02	0.05	75.2	5.2	240	0.70	2.49	1.60	0.61	14.7	2.21	<5	1.1	0.56
W443332		98.97	0.02	0.06	51.5	6.6	280	0.36	2.98	2.04	0.68	16.8	2.41	<5	1.4	0.66
W443333		98.06	0.09	1.82	215	26.9	240	0.98	2.47	1.28	1.11	16.4	2.84	<5	2.6	0.51
W443334		99.53	0.04	0.07	43.4	5.8	240	0.32	2.77	1.76	0.61	15.9	2.04	<5	1.3	0.59
W443335		99.94	0.02	0.08	53.0	7.1	270	0.52	2.91	2.13	0.73	15.9	2.42	<5	1.3	0.67
W443336		100.37	0.02	0.11	87.4	8.3	260	0.97	3.02	2.09	0.75	16.3	2.59	<5	1.3	0.68
W443337		98.82	0.02	0.08	83.8	7.2	260	0.78	2.90	2.00	0.71	16.5	2.46	<5	1.3	0.61
W443338		98.37	0.08	0.08	75.2	6.7	260	0.69	2.82	1.89	0.63	16.2	2.30	<5	1.2	0.63
W443339		98.28	0.02	0.09	65.8	5.8	250	0.60	2.89	1.80	0.63	15.2	2.34	<5	1.2	0.62
W443340		98.92	0.03	0.08	52.3	6.0	260	0.36	2.87	1.96	0.65	15.6	2.31	<5	1.2	0.63
W443341		97.65	0.02	0.08	49.1	6.0	270	0.24	2.94	1.86	0.71	15.9	2.23	<5	1.3	0.66
W443342		100.40	0.03	0.09	58.5	5.7	260	0.46	2.80	1.85	0.62	15.6	2.15	<5	1.2	0.60
W443343		100.95	0.02	0.08	63.7	6.0	270	0.28	2.83	1.91	0.64	16.3	2.17	<5	1.2	0.60
W443344		101.38	0.02	0.10	72.1	6.6	290	0.53	3.00	1.93	0.71	17.3	2.45	<5	1.4	0.67
W443345		99.93	0.03	0.07	55.5	5.6	250	0.23	2.56	1.82	0.59	15.2	2.15	<5	1.3	0.60
W443346		100.34	0.03	0.09	49.3	5.7	250	0.25	2.62	1.86	0.63	15.1	2.25	<5	1.2	0.59
W443347		99.90	0.03	0.08	73.6	6.2	270	0.35	2.89	1.88	0.67	15.9	2.28	<5	1.2	0.63
W443348		100.32	0.03	0.09	88.9	5.9	270	0.62	2.82	1.85	0.62	15.8	2.38	<5	1.3	0.67
W443349		97.43	0.03	0.07	100.0	5.6	300	1.89	2.84	1.80	0.63	16.6	2.20	<5	1.3	0.61
W443350		101.21	0.02	0.07	65.6	5.2	300	0.42	2.39	1.60	0.53	15.4	2.06	<5	1.1	0.55
W443351		99.05	0.03	0.06	63.0	5.1	300	0.31	2.54	1.71	0.60	15.7	2.15	<5	1.2	0.57
W443352		99.28	0.04	0.06	64.2	5.5	280	0.30	2.64	1.72	0.61	15.8	2.09	<5	1.1	0.54

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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
W443313		1.2	0.02	0.4	1.2	0.30	5.5	0.29	<1	111.0	<0.1	0.03	0.55	0.02	0.51	5
W443314		10.1	0.25	6.4	10.4	2.42	4.6	2.78	2	63.1	0.3	0.42	1.94	0.25	0.94	170
W443315		2.0	0.27	1.7	4.7	0.92	8.2	1.77	<1	117.0	0.1	0.40	0.20	0.27	<0.05	264
W443316		2.6	0.30	2.8	5.3	1.09	9.7	2.08	2	140.5	0.1	0.44	0.28	0.32	0.05	286
W443317		2.2	0.29	2.0	5.0	0.95	11.4	1.84	1	113.5	0.1	0.40	0.18	0.31	0.05	274
W443318		2.2	0.29	1.8	5.0	0.96	15.3	1.69	<1	121.0	0.1	0.40	0.15	0.27	<0.05	285
W443319		2.2	0.30	1.9	5.3	0.99	10.7	1.86	<1	149.0	0.1	0.42	0.16	0.29	0.05	297
W443320		2.3	0.32	1.9	5.4	1.06	10.8	1.79	<1	134.0	0.1	0.43	0.20	0.30	0.31	311
W443321		2.3	0.34	2.0	5.7	1.05	15.3	1.79	<1	112.0	0.1	0.44	0.19	0.31	0.08	324
W443322		2.2	0.29	1.8	5.0	0.96	15.4	1.80	<1	125.5	0.1	0.42	0.15	0.28	0.05	293
W443323		2.3	0.27	1.8	4.9	0.95	13.4	1.78	<1	190.5	0.1	0.40	0.18	0.30	0.05	283
W443324		2.1	0.29	1.7	5.1	0.94	17.6	1.66	<1	136.5	0.1	0.42	0.16	0.29	<0.05	296
W443325		2.1	0.28	1.8	4.9	0.96	8.1	1.77	<1	126.0	0.1	0.40	0.17	0.28	<0.05	289
W443326		2.3	0.31	1.9	5.3	1.02	5.8	1.78	1	108.0	0.1	0.43	0.19	0.28	0.05	303
W443327		2.2	0.32	1.9	5.3	1.00	9.9	1.76	1	109.0	0.1	0.42	0.16	0.30	0.05	302
W443328		2.4	0.31	2.0	5.6	1.04	8.5	1.95	<1	122.0	0.1	0.44	0.18	0.32	0.05	320
W443329		2.2	0.29	1.8	5.0	0.93	9.3	1.73	<1	123.0	0.1	0.39	0.16	0.27	0.05	296
W443330		2.1	0.28	1.8	5.1	0.94	10.7	1.87	<1	123.5	0.1	0.42	0.18	0.28	0.05	296
W443331		1.9	0.27	1.5	4.4	0.84	12.5	1.57	<1	127.5	0.1	0.37	0.14	0.24	<0.05	258
W443332		2.4	0.32	1.9	5.6	1.01	7.4	1.88	<1	132.0	0.1	0.44	0.18	0.31	<0.05	315
W443333		12.2	0.17	7.4	13.9	3.31	16.4	3.04	4	260	0.5	0.43	1.65	0.20	0.55	126
W443334		2.2	0.27	1.8	5.1	0.92	5.8	1.69	<1	132.0	0.1	0.39	0.14	0.27	0.05	271
W443335		2.7	0.31	1.9	5.6	1.14	9.7	2.05	<1	126.0	0.1	0.44	0.31	0.29	<0.05	298
W443336		3.4	0.31	2.0	6.4	1.28	16.5	2.15	1	121.5	0.1	0.44	0.62	0.30	0.05	290
W443337		2.7	0.29	2.1	5.7	1.14	14.3	1.87	<1	128.0	0.1	0.46	0.30	0.29	0.05	283
W443338		2.4	0.28	1.8	5.2	1.03	14.1	1.99	1	115.5	0.1	0.41	0.20	0.30	0.05	283
W443339		2.1	0.29	1.7	5.0	0.94	10.6	1.64	1	112.5	0.1	0.39	0.17	0.26	<0.05	278
W443340		2.2	0.30	1.8	5.2	0.98	8.1	1.82	<1	108.0	0.1	0.40	0.18	0.27	<0.05	299
W443341		2.2	0.31	1.7	5.3	0.99	7.1	1.62	<1	112.5	0.1	0.44	0.19	0.29	<0.05	298
W443342		2.1	0.28	1.8	4.8	0.95	9.8	1.83	<1	111.5	0.1	0.38	0.16	0.29	0.05	293
W443343		2.2	0.29	1.8	5.1	0.97	9.1	1.71	<1	116.0	0.1	0.41	0.18	0.29	0.05	296
W443344		2.3	0.33	1.9	5.4	1.02	10.5	1.93	<1	110.0	0.1	0.44	0.20	0.33	<0.05	319
W443345		2.1	0.29	1.7	5.0	0.94	7.6	1.62	1	97.9	0.1	0.37	0.15	0.25	<0.05	278
W443346		2.0	0.26	1.7	4.9	0.91	7.6	1.61	<1	96.4	0.1	0.38	0.16	0.28	<0.05	278
W443347		2.3	0.31	1.9	5.3	0.97	11.5	1.81	1	101.5	0.1	0.41	0.18	0.28	<0.05	294
W443348		2.2	0.30	1.8	5.1	0.96	13.6	1.65	<1	114.5	0.1	0.40	0.17	0.29	<0.05	290
W443349		2.0	0.29	1.7	4.7	0.90	16.3	1.57	<1	136.5	0.1	0.38	0.17	0.27	<0.05	297
W443350		1.8	0.27	1.5	4.3	0.83	10.3	1.61	<1	122.5	0.1	0.36	0.14	0.25	<0.05	268
W443351		1.9	0.26	1.6	4.5	0.83	10.0	1.45	<1	112.0	0.1	0.39	0.14	0.24	<0.05	269
W443352		2.0	0.27	1.6	4.4	0.90	10.8	1.50	<1	115.5	0.1	0.36	0.14	0.25	<0.05	274

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443313		2	1.2	0.13	9	1.1	0.06	0.024	<0.005	0.001	0.10	<0.2	<0.01	0.06	<0.5	<0.5
W443314		1	13.8	1.53	79	39.3	0.35	0.156	0.058	0.015	1.76	12.4	1.42	0.06	2.8	1.1
W443315		1	15.3	1.84	41	0.3	0.03	0.016	0.011	0.001	<0.05	0.5	0.02	0.04	<0.5	0.5
W443316		1	16.8	1.98	45	0.2	0.03	0.017	0.010	0.001	<0.05	0.4	0.02	0.05	<0.5	0.5
W443317		2	16.1	1.93	42	0.4	0.03	0.010	0.011	0.001	<0.05	0.5	0.03	0.05	<0.5	0.5
W443318		<1	17.1	1.82	44	0.4	0.04	0.013	0.010	0.001	<0.05	0.4	0.04	0.06	<0.5	0.5
W443319		1	17.6	2.02	46	0.5	0.04	0.025	0.012	0.002	<0.05	0.5	0.02	0.05	<0.5	0.5
W443320		1	18.1	1.92	46	0.1	0.03	0.007	0.011	0.001	<0.05	0.5	0.02	0.05	<0.5	0.9
W443321		<1	18.9	1.99	49	0.2	0.01	0.005	0.009	0.001	<0.05	0.4	0.04	0.07	<0.5	<0.5
W443322		<1	17.2	1.83	45	0.1	0.02	0.007	0.011	0.002	<0.05	0.4	0.03	0.06	<0.5	0.6
W443323		<1	16.9	1.82	42	0.2	0.02	0.013	0.011	0.002	<0.05	0.5	0.05	0.06	<0.5	0.8
W443324		<1	17.2	1.84	45	0.2	0.01	0.014	0.010	0.001	0.08	0.7	0.04	0.07	<0.5	0.5
W443325		2	17.3	1.81	46	0.1	0.01	0.006	0.012	0.001	<0.05	0.3	0.03	0.05	<0.5	0.6
W443326		<1	18.0	1.94	46	<0.1	0.01	0.008	0.009	0.001	<0.05	0.4	0.02	0.05	<0.5	<0.5
W443327		<1	17.5	1.95	44	0.2	0.02	0.008	0.012	0.003	<0.05	0.3	0.03	0.05	<0.5	0.7
W443328		<1	18.7	2.11	47	0.1	0.01	0.010	0.008	0.002	<0.05	0.3	0.02	0.05	<0.5	0.6
W443329		1	17.0	1.86	43	0.4	0.01	0.007	0.008	<0.001	<0.05	0.2	0.03	0.05	<0.5	0.6
W443330		<1	17.2	1.90	45	0.3	0.02	<0.005	0.008	0.001	<0.05	0.3	0.01	0.04	<0.5	0.6
W443331		<1	15.1	1.51	39	0.1	0.01	<0.005	0.009	<0.001	<0.05	0.2	0.02	0.04	<0.5	0.7
W443332		<1	18.7	1.84	49	0.3	0.01	0.009	0.009	<0.001	<0.05	0.3	0.03	0.04	<0.5	0.5
W443333		6	13.5	1.18	111	4.4	0.80	0.008	0.064	0.004	0.33	4.7	0.57	0.10	2.3	1.2
W443334		<1	16.4	1.84	42	0.5	0.02	<0.005	0.010	<0.001	<0.05	0.3	0.02	0.05	<0.5	0.5
W443335		<1	18.4	1.94	47	0.2	0.03	<0.005	0.008	0.001	<0.05	0.6	0.02	0.06	<0.5	0.6
W443336		<1	18.5	1.95	47	0.3	0.03	<0.005	0.008	0.001	<0.05	0.3	0.03	0.07	<0.5	0.7
W443337		<1	18.0	1.99	48	0.2	0.03	<0.005	0.009	0.001	<0.05	0.3	0.02	0.05	<0.5	0.7
W443338		1	17.1	1.75	45	0.4	0.03	<0.005	0.009	<0.001	0.05	0.3	0.02	0.08	<0.5	0.6
W443339		<1	16.6	1.82	42	0.2	0.03	0.008	0.010	<0.001	<0.05	0.3	0.03	0.06	<0.5	<0.5
W443340		1	17.2	1.99	45	0.3	0.02	<0.005	0.008	0.001	<0.05	0.4	0.02	0.05	<0.5	0.8
W443341		<1	17.3	1.90	45	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.4	0.03	0.06	<0.5	0.7
W443342		1	16.9	1.80	43	0.1	0.02	<0.005	0.008	0.001	<0.05	0.3	0.02	0.06	<0.5	0.8
W443343		1	17.1	1.74	43	0.1	0.03	<0.005	0.009	0.001	<0.05	0.4	0.02	0.06	<0.5	0.5
W443344		1	18.3	2.08	47	0.4	0.02	<0.005	0.008	0.001	<0.05	0.5	0.02	0.07	<0.5	0.6
W443345		<1	16.4	1.69	42	0.2	0.02	<0.005	0.006	0.001	<0.05	0.2	0.02	0.05	<0.5	0.8
W443346		<1	16.4	1.65	42	0.2	0.02	<0.005	0.010	<0.001	<0.05	0.4	0.03	0.04	<0.5	0.9
W443347		<1	17.4	1.80	45	0.3	0.02	<0.005	0.009	<0.001	<0.05	0.3	0.03	0.07	<0.5	1.3
W443348		<1	16.7	1.80	44	0.4	0.03	<0.005	0.010	0.001	<0.05	0.5	0.03	0.07	<0.5	0.9
W443349		1	16.9	1.82	44	0.2	0.04	<0.005	0.009	0.003	<0.05	0.3	0.03	0.07	<0.5	1.1
W443350		1	15.1	1.60	39	0.6	0.03	<0.005	0.007	<0.001	<0.05	0.4	0.03	0.07	<0.5	0.8
W443351		<1	15.0	1.68	38	0.4	0.02	<0.005	0.007	0.001	<0.05	0.3	0.03	0.07	<0.5	1.0
W443352		1	15.5	1.62	40	0.6	0.01	<0.005	0.008	0.001	<0.05	0.5	0.03	0.08	<0.5	1.0

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443313		<1	2	20	<1	<1	10	1	35	<0.001	<0.005	<0.001	0.007
W443314		156	5650	40	3	2200	9	26	77	0.131	0.703	0.358	11.40
W443315		54	190	20	<1	157	5	36	109	0.001	0.015	0.018	0.364
W443316		52	166	20	1	152	5	36	103	0.003	0.014	0.018	0.311
W443317		51	178	20	<1	141	4	37	88	0.003	0.014	0.019	0.383
W443318		53	164	20	1	146	3	36	89	0.003	0.014	0.018	0.312
W443319		50	170	20	1	144	<2	39	119	0.004	0.014	0.018	0.387
W443320		54	182	20	<1	153	7	36	107	0.002	0.013	0.017	0.371
W443321		56	199	20	<1	163	8	42	105	0.006	0.013	0.019	0.386
W443322		55	191	20	1	160	7	39	95	0.004	0.013	0.018	0.413
W443323		56	223	30	1	161	6	42	136	0.002	0.013	0.018	0.390
W443324		56	188	20	<1	167	7	38	98	0.001	0.014	0.021	0.484
W443325		52	143	20	<1	161	6	41	121	0.002	0.013	0.019	0.254
W443326		56	178	20	<1	159	5	40	110	0.002	0.013	0.018	0.364
W443327		55	155	20	3	169	3	35	104	0.004	0.016	0.022	0.312
W443328		55	174	20	<1	162	4	36	109	0.002	0.016	0.021	0.382
W443329		53	165	20	<1	163	3	36	94	0.003	0.015	0.020	0.344
W443330		53	165	20	1	164	3	40	96	0.011	0.014	0.019	0.297
W443331		52	183	20	<1	157	2	41	112	0.003	0.013	0.019	0.225
W443332		53	166	20	<1	153	3	41	96	0.003	0.011	0.018	0.299
W443333		119	4580	20	5	4500	26	13	109	0.090	0.325	0.593	4.73
W443334		48	147	20	<1	142	2	39	80	0.001	0.012	0.016	0.318
W443335		53	182	20	<1	158	6	39	99	0.001	0.013	0.017	0.352
W443336		54	184	20	<1	152	2	41	101	0.001	0.013	0.017	0.416
W443337		52	162	20	<1	159	4	39	107	0.002	0.014	0.017	0.315
W443338		50	159	30	<1	154	2	38	107	0.003	0.014	0.018	0.291
W443339		52	176	20	1	156	3	40	100	0.002	0.015	0.018	0.383
W443340		55	158	20	1	162	4	40	106	0.002	0.012	0.017	0.348
W443341		52	177	30	1	160	2	38	100	0.002	0.014	0.018	0.378
W443342		52	184	20	<1	160	<2	38	91	0.002	0.013	0.018	0.362
W443343		53	165	20	1	162	<2	36	111	0.002	0.012	0.019	0.331
W443344		53	172	20	<1	164	2	38	96	0.002	0.013	0.019	0.416
W443345		51	153	20	1	156	4	37	96	0.002	0.015	0.018	0.303
W443346		50	187	20	<1	162	<2	34	120	0.003	0.015	0.019	0.355
W443347		52	168	20	1	166	<2	32	101	0.003	0.015	0.020	0.355
W443348		52	162	30	<1	170	<2	38	118	0.006	0.015	0.020	0.329
W443349		48	138	30	4	165	<2	37	133	0.002	0.015	0.021	0.311
W443350		51	156	20	<1	177	<2	35	101	0.004	0.017	0.025	0.336
W443351		51	151	20	<1	172	<2	32	88	0.003	0.017	0.024	0.255
W443352		50	158	20	<1	169	<2	33	89	0.002	0.016	0.021	0.303

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443353		1.06	14.00	0.11	0.18	28.5	19.60	0.02	0.03	<0.01	<0.01	0.05	<0.01	0.01	0.01	36.8
W443354		2.43	49.1	14.70	14.30	10.60	8.00	2.01	0.49	0.04	0.89	0.22	0.06	0.01	0.01	1.23
W443355		2.27	49.2	14.60	12.70	10.70	7.80	2.08	0.46	0.04	0.71	0.20	0.04	0.01	0.01	1.28
W443356		2.45	48.9	14.95	13.25	10.10	8.32	2.31	0.43	0.04	0.76	0.22	0.04	0.01	0.01	1.25
W443357		2.42	49.1	14.65	12.90	10.25	8.43	2.26	0.41	0.04	0.74	0.21	0.04	0.01	0.01	1.25
W443358		2.39	49.2	14.45	13.05	10.55	8.12	2.13	0.47	0.04	0.72	0.21	0.06	0.01	0.01	1.20
W443359		2.53	49.1	14.65	13.05	10.50	7.90	2.03	0.65	0.04	0.75	0.22	0.05	0.01	0.01	1.13
W443360		2.51	49.5	14.85	13.25	10.50	7.89	2.26	0.62	0.04	0.77	0.21	0.05	0.01	0.01	1.17
W443361		2.54	49.7	14.60	13.10	11.30	7.61	2.41	0.43	0.04	0.76	0.20	0.06	0.01	0.01	1.58
W443362		2.31	50.1	14.85	13.40	10.05	8.13	2.57	0.36	0.04	0.76	0.21	0.06	0.01	0.01	1.05
W443363		2.52	49.5	14.80	13.10	10.45	8.14	2.32	0.43	0.04	0.76	0.20	0.04	0.01	0.01	1.06
W443364		2.45	49.0	14.80	12.75	10.95	7.67	2.10	0.46	0.04	0.74	0.20	0.05	0.01	0.01	1.09
W443365		2.34	49.7	15.05	13.35	10.15	7.88	2.38	0.37	0.04	0.78	0.20	0.06	0.01	0.01	1.10
W443366		2.36	48.9	14.75	12.55	10.35	7.79	2.36	0.42	0.03	0.72	0.20	0.05	0.01	0.01	1.16
W443367		2.36	48.9	14.50	12.80	10.50	8.21	2.17	0.37	0.04	0.72	0.20	0.04	0.01	0.01	1.14
W443368		2.25	50.1	13.90	12.75	10.55	8.29	2.27	0.50	0.04	0.67	0.21	0.04	0.01	0.01	1.24
W443369		2.44	49.0	14.75	12.25	10.45	7.71	2.11	0.49	0.03	0.68	0.19	0.05	0.01	0.01	1.09
W443370		2.39	48.7	14.95	12.40	11.35	7.54	2.05	0.57	0.04	0.65	0.19	0.03	0.01	0.01	1.42
W443371		2.20	50.0	14.70	12.40	11.00	7.88	2.31	0.55	0.04	0.64	0.21	0.03	0.01	0.01	1.32
W443372		2.40	48.8	14.60	13.65	9.56	8.30	2.02	0.56	0.04	0.81	0.21	0.05	0.01	0.01	1.39
W443373		0.04	42.1	9.17	15.15	15.95	10.85	0.60	0.22	0.11	0.68	0.14	0.11	<0.01	0.03	3.50
W443374		2.46	49.8	14.50	13.00	10.75	7.72	2.04	0.56	0.04	0.72	0.20	0.05	0.01	0.01	0.88
W443375		2.38	49.3	14.70	13.60	10.05	8.49	2.25	0.49	0.04	0.74	0.21	0.05	0.01	0.01	1.10
W443376		2.34	49.8	14.60	13.15	10.30	8.19	2.39	0.40	0.04	0.72	0.20	0.05	0.01	0.01	0.85
W443377		2.42	50.2	13.85	12.55	11.05	7.61	1.76	0.38	0.04	0.68	0.19	0.04	0.01	0.01	1.02
W443378		2.33	49.5	14.45	13.25	10.05	8.26	2.26	0.48	0.04	0.74	0.21	0.04	0.01	0.01	1.18
W443379		2.53	49.2	15.00	13.20	10.15	7.77	2.29	0.48	0.04	0.77	0.22	0.05	0.01	0.01	0.84
W443380		2.49	50.0	14.55	12.95	10.00	8.29	2.32	0.39	0.04	0.73	0.21	0.05	0.01	0.01	0.87
W443381		2.65	48.7	14.30	13.10	9.40	9.05	2.15	0.44	0.04	0.71	0.22	0.04	<0.01	0.01	1.35
W443382		2.33	49.6	15.10	13.50	8.34	9.36	2.32	0.50	0.04	0.77	0.22	0.04	0.01	0.01	1.74
W443383		2.34	50.3	15.00	13.20	9.82	8.59	2.29	0.47	0.04	0.77	0.22	0.04	0.01	0.01	1.15
W443384		2.49	48.9	14.50	13.10	9.76	8.25	2.17	0.45	0.04	0.76	0.21	0.05	0.01	0.01	1.05
W443385		2.44	48.1	15.00	12.35	11.35	6.75	1.95	0.51	0.03	0.69	0.18	0.05	0.02	0.01	1.38
W443386		2.35	48.7	15.35	13.35	10.00	8.03	2.24	0.57	0.04	0.77	0.20	0.04	0.01	0.01	1.35
W443387		2.55	48.0	14.65	13.10	10.05	8.31	1.99	0.61	0.04	0.77	0.19	0.05	0.01	0.01	1.55
W443388		2.43	48.5	14.05	13.40	9.75	8.44	2.17	0.42	0.04	0.74	0.20	0.05	0.01	0.01	1.23
W443389		2.41	49.5	14.60	13.30	10.70	7.78	2.25	0.60	0.04	0.76	0.20	0.06	0.02	0.01	1.03
W443390		0.04	47.3	12.85	20.9	6.37	6.77	2.15	0.63	0.03	1.22	0.19	0.15	0.03	0.02	1.62

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443353		99.31	10.10	<0.01	126.0	1.4	<10	0.50	0.10	0.06	<0.03	0.1	0.08	<5	<0.2	0.02
W443354		101.66	0.06	0.17	73.7	7.2	270	0.36	3.49	2.31	0.79	16.7	2.97	<5	1.6	0.79
W443355		99.83	0.04	0.13	70.5	5.8	290	0.35	2.94	1.81	0.67	16.2	2.46	<5	1.2	0.62
W443356		100.59	0.03	0.09	71.2	5.9	290	0.32	2.94	2.02	0.64	16.4	2.45	<5	1.3	0.66
W443357		100.30	0.02	0.09	69.4	5.6	300	0.23	2.69	1.82	0.58	15.6	2.53	<5	1.2	0.63
W443358		100.22	0.02	0.08	88.5	8.4	290	0.30	2.89	1.85	0.70	15.4	2.49	<5	1.2	0.64
W443359		100.09	0.09	0.06	125.0	6.9	290	0.39	3.10	1.87	0.71	16.8	2.44	<5	1.3	0.67
W443360		101.13	0.02	0.08	93.4	5.5	250	0.28	2.56	1.80	0.63	14.3	2.32	<5	1.1	0.58
W443361		101.81	0.03	0.08	70.0	6.1	280	0.25	3.13	2.15	0.70	15.9	2.61	<5	1.3	0.69
W443362		101.60	0.01	0.07	55.8	5.9	250	0.25	2.84	1.85	0.62	14.1	2.47	<5	1.2	0.60
W443363		100.86	0.02	0.08	62.0	5.6	270	0.31	2.76	1.77	0.56	14.6	2.30	<5	1.2	0.60
W443364		99.87	0.04	0.07	68.6	5.8	290	0.31	2.79	1.93	0.63	16.0	2.36	<5	1.2	0.63
W443365		101.08	0.01	0.06	58.6	5.9	280	0.34	2.89	1.75	0.60	16.2	2.55	<5	1.3	0.63
W443366		99.30	0.03	0.07	64.0	5.4	230	0.32	2.69	1.83	0.59	15.2	2.32	<5	1.1	0.58
W443367		99.61	0.02	0.04	55.2	5.0	240	0.36	2.59	1.68	0.58	14.5	2.15	<5	1.0	0.53
W443368		100.58	0.03	0.03	85.1	4.4	220	0.29	2.40	1.48	0.53	13.9	1.94	<5	0.9	0.51
W443369		98.82	0.02	0.07	71.9	4.3	220	0.33	2.11	1.50	0.54	13.3	1.81	<5	1.0	0.48
W443370		99.91	0.10	0.04	97.7	4.7	300	0.62	2.54	1.62	0.58	15.6	2.06	<5	1.1	0.57
W443371		101.10	0.05	0.04	104.5	5.0	280	0.51	2.53	1.62	0.58	15.2	2.07	<5	1.1	0.51
W443372		100.01	0.03	0.08	119.0	6.3	270	0.67	3.10	2.06	0.64	15.9	2.80	<5	1.3	0.70
W443373		98.61	0.24	2.59	326	21.6	890	0.42	2.75	1.66	0.83	12.7	3.09	<5	2.2	0.58
W443374		100.28	0.04	0.06	109.0	6.3	300	0.46	3.17	2.04	0.73	18.3	2.57	<5	1.2	0.70
W443375		101.04	0.02	0.07	84.4	5.8	280	0.66	3.08	1.92	0.68	16.5	2.28	<5	1.3	0.64
W443376		100.71	0.02	0.05	71.8	5.5	280	0.26	2.84	1.81	0.56	15.6	2.43	<5	1.1	0.62
W443377		99.39	0.05	0.03	72.0	6.0	300	0.35	2.90	1.91	0.70	18.5	2.69	<5	1.2	0.70
W443378		100.48	0.04	0.04	91.2	6.1	290	0.41	3.03	2.05	0.69	17.0	2.63	<5	1.3	0.67
W443379		100.03	0.02	0.11	95.2	6.0	300	0.36	2.89	1.98	0.59	16.8	2.68	<5	1.1	0.66
W443380		100.42	0.02	0.05	72.1	5.2	260	0.30	2.58	1.72	0.58	14.7	2.10	<5	1.1	0.59
W443381		99.51	0.01	0.03	81.8	5.0	280	0.57	2.55	1.64	0.57	15.6	2.30	<5	1.0	0.54
W443382		101.55	0.01	0.04	85.1	5.2	250	0.61	2.53	1.68	0.58	14.6	2.23	<5	1.1	0.58
W443383		101.91	0.02	0.08	86.0	5.8	280	0.39	2.97	1.99	0.60	16.0	2.26	<5	1.2	0.64
W443384		99.26	0.03	0.07	76.2	5.8	260	0.32	2.99	1.80	0.61	15.4	2.36	<5	1.2	0.65
W443385		98.37	0.15	0.12	81.3	4.9	230	0.44	2.54	1.66	0.60	16.2	2.08	<5	1.0	0.55
W443386		100.66	0.04	0.08	100.5	5.3	270	0.56	2.78	1.87	0.53	14.6	2.22	<5	1.2	0.58
W443387		99.33	0.05	0.11	119.5	6.3	240	0.63	2.95	2.06	0.67	14.2	2.22	<5	1.3	0.66
W443388		99.01	0.03	0.12	72.2	6.0	230	0.44	2.98	1.94	0.61	14.2	2.39	<5	1.1	0.62
W443389		100.85	0.05	0.11	108.0	5.7	280	0.56	2.87	2.09	0.65	14.1	2.31	<5	1.1	0.61
W443390		100.23	0.08	1.65	198.5	25.0	220	0.87	2.35	1.25	1.02	13.9	2.67	<5	2.1	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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443353		0.9	0.01	<0.2	0.5	0.14	1.0	0.11	<1	121.0	<0.1	0.02	0.24	0.01	0.46	<5
W443354		2.6	0.37	2.2	6.1	1.12	12.2	2.23	<1	93.9	0.1	0.53	0.23	0.34	0.10	284
W443355		2.1	0.30	1.8	5.0	0.93	13.2	1.76	<1	111.5	0.1	0.45	0.18	0.28	0.07	288
W443356		2.2	0.31	1.8	5.0	0.97	11.4	1.71	1	112.5	0.1	0.47	0.18	0.31	0.06	295
W443357		2.0	0.28	1.8	4.6	0.91	10.5	1.64	<1	109.0	0.1	0.42	0.16	0.28	<0.05	291
W443358		3.2	0.29	4.4	5.8	1.26	12.1	1.98	1	108.0	0.1	0.50	0.31	0.26	0.05	282
W443359		2.6	0.32	2.9	5.6	1.11	18.0	1.82	<1	119.0	0.1	0.47	0.22	0.33	0.05	302
W443360		1.9	0.27	1.8	4.7	0.89	14.7	1.91	<1	103.0	0.1	0.41	0.18	0.27	0.13	260
W443361		2.3	0.32	2.1	5.2	1.02	10.6	1.91	<1	95.6	0.1	0.45	0.19	0.31	0.08	272
W443362		2.2	0.29	1.9	4.7	0.92	7.3	1.81	<1	94.8	0.1	0.44	0.17	0.29	<0.05	260
W443363		2.1	0.31	1.9	4.6	0.92	10.2	1.78	<1	97.7	0.1	0.44	0.15	0.28	0.05	271
W443364		2.1	0.31	1.9	5.1	0.92	12.7	1.76	<1	127.0	0.1	0.47	0.17	0.31	<0.05	280
W443365		2.2	0.30	1.9	4.9	0.94	9.3	1.81	<1	127.5	0.1	0.45	0.19	0.30	<0.05	288
W443366		2.0	0.28	1.7	4.4	0.87	11.1	1.76	1	102.5	0.1	0.42	0.15	0.28	<0.05	272
W443367		1.8	0.27	1.6	4.4	0.82	8.8	1.52	<1	93.2	0.1	0.40	0.14	0.24	<0.05	256
W443368		1.6	0.24	1.4	4.0	0.73	12.1	1.40	<1	100.0	0.1	0.36	0.13	0.24	<0.05	239
W443369		1.6	0.24	1.4	3.7	0.74	11.2	1.36	<1	95.9	0.1	0.36	0.12	0.24	<0.05	242
W443370		1.7	0.26	1.6	4.0	0.76	14.7	1.46	<1	114.5	0.1	0.39	0.14	0.27	<0.05	283
W443371		1.9	0.26	1.5	4.2	0.80	15.3	1.58	<1	114.5	0.1	0.37	0.14	0.28	<0.05	268
W443372		2.3	0.31	2.0	5.2	0.98	15.2	2.03	<1	142.0	0.1	0.52	0.18	0.32	0.06	303
W443373		10.5	0.24	7.3	11.3	2.76	5.0	3.02	2	68.3	0.4	0.47	2.17	0.27	1.08	199
W443374		2.3	0.35	1.9	5.3	1.06	14.9	2.08	1	135.0	0.1	0.45	0.18	0.31	<0.05	317
W443375		2.1	0.32	1.8	4.9	0.97	12.6	1.83	1	114.0	0.1	0.47	0.16	0.31	<0.05	299
W443376		2.0	0.30	1.7	4.7	0.84	9.4	1.89	<1	139.0	0.1	0.43	0.15	0.29	<0.05	291
W443377		2.2	0.29	1.8	5.0	0.98	9.9	1.97	1	156.0	0.1	0.47	0.16	0.31	<0.05	312
W443378		2.3	0.32	1.9	5.3	0.95	12.1	1.91	<1	129.0	0.1	0.52	0.16	0.31	0.05	287
W443379		2.1	0.31	1.9	5.0	0.97	11.5	1.89	<1	118.5	0.1	0.47	0.17	0.31	0.05	298
W443380		1.8	0.28	1.6	4.2	0.80	8.3	1.57	<1	109.0	0.1	0.42	0.14	0.25	<0.05	269
W443381		1.8	0.27	1.5	4.2	0.80	11.3	1.58	<1	99.5	0.1	0.41	0.13	0.28	<0.05	287
W443382		1.9	0.28	1.7	4.3	0.81	13.5	1.56	<1	98.8	0.1	0.39	0.15	0.28	<0.05	266
W443383		2.1	0.29	1.8	5.0	0.92	11.4	1.82	<1	115.5	0.1	0.45	0.16	0.33	<0.05	294
W443384		2.0	0.31	1.9	5.0	0.93	11.2	1.86	<1	106.0	0.1	0.45	0.16	0.29	<0.05	288
W443385		1.8	0.24	1.5	4.1	0.79	12.6	1.57	<1	143.0	0.1	0.39	0.13	0.26	<0.05	268
W443386		1.9	0.30	1.7	4.3	0.86	14.7	1.78	1	122.5	0.1	0.43	0.15	0.27	<0.05	269
W443387		2.3	0.30	1.8	5.1	1.00	17.8	1.79	<1	123.5	0.1	0.43	0.16	0.27	0.05	295
W443388		2.2	0.28	1.7	4.9	0.98	11.0	1.67	<1	119.0	0.1	0.39	0.17	0.28	<0.05	279
W443389		2.0	0.25	1.7	4.8	0.92	16.5	1.58	<1	134.5	0.1	0.46	0.22	0.27	0.30	285
W443390		11.4	0.17	6.7	12.6	3.15	14.7	2.76	3	235	0.4	0.38	1.48	0.18	0.56	118

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443353		<1	0.6	0.06	2	0.7	0.02	<0.005	<0.005	0.001	0.06	<0.2	<0.01	0.06	<0.5	<0.5
W443354		1	19.7	2.30	54	0.4	0.01	<0.005	0.010	0.001	<0.05	0.6	0.02	0.09	<0.5	0.9
W443355		1	16.6	1.88	44	0.4	0.02	<0.005	0.009	0.001	<0.05	0.4	0.02	0.08	<0.5	0.9
W443356		<1	16.9	1.93	46	0.3	0.03	<0.005	0.009	0.001	<0.05	0.3	0.03	0.07	<0.5	0.9
W443357		<1	16.0	1.78	42	0.3	0.03	<0.005	0.006	<0.001	<0.05	0.4	0.02	0.07	<0.5	1.0
W443358		1	16.2	1.95	43	0.3	0.03	<0.005	0.009	0.001	<0.05	0.3	0.03	0.07	<0.5	0.8
W443359		1	17.4	1.99	48	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.3	0.04	0.07	<0.5	0.9
W443360		<1	15.0	1.72	40	0.3	0.03	<0.005	0.009	<0.001	<0.05	0.4	0.02	0.06	<0.5	0.8
W443361		1	17.2	1.95	46	0.2	0.03	<0.005	0.010	0.001	<0.05	0.3	0.04	0.07	<0.5	0.8
W443362		<1	15.6	1.85	43	0.3	0.02	<0.005	0.010	0.001	<0.05	0.4	0.02	0.06	<0.5	0.9
W443363		<1	15.6	1.92	43	0.3	0.01	<0.005	0.008	0.001	<0.05	0.4	0.02	0.06	<0.5	1.2
W443364		1	16.3	1.95	46	0.2	0.02	<0.005	0.008	0.001	<0.05	0.3	0.02	0.07	<0.5	0.7
W443365		<1	16.3	1.84	44	0.3	0.02	<0.005	0.009	0.001	<0.05	0.4	0.03	0.06	<0.5	0.8
W443366		<1	15.2	1.74	42	0.4	0.03	<0.005	0.009	0.002	0.06	0.5	0.03	0.07	<0.5	0.7
W443367		1	14.2	1.65	38	0.6	0.01	0.005	0.007	0.002	<0.05	0.5	0.03	0.06	<0.5	0.8
W443368		1	13.1	1.55	34	0.2	0.02	<0.005	0.006	<0.001	<0.05	0.3	0.03	0.07	<0.5	0.9
W443369		<1	12.7	1.49	33	0.4	0.03	<0.005	0.008	0.001	<0.05	0.7	0.04	0.07	<0.5	0.8
W443370		1	14.5	1.56	37	0.4	0.02	0.009	0.007	<0.001	<0.05	0.4	0.05	0.09	<0.5	0.9
W443371		2	14.0	1.59	37	0.5	0.04	<0.005	0.010	0.001	<0.05	0.4	0.05	0.06	<0.5	0.8
W443372		1	17.7	2.24	48	0.5	0.05	<0.005	0.013	<0.001	0.05	0.6	0.04	0.09	<0.5	0.9
W443373		1	15.1	1.57	89	44.2	0.32	0.124	0.053	0.017	1.51	12.1	1.26	0.07	2.5	1.7
W443374		1	18.0	2.12	48	0.5	0.03	<0.005	0.009	0.001	0.05	0.4	0.02	0.06	<0.5	1.2
W443375		1	16.7	1.92	46	0.6	0.03	<0.005	0.011	0.001	<0.05	0.5	0.02	0.10	<0.5	1.0
W443376		1	15.6	1.88	41	0.3	0.02	<0.005	0.010	0.001	<0.05	0.5	0.02	0.06	<0.5	0.9
W443377		<1	16.4	1.89	44	1.2	0.01	<0.005	0.008	0.001	<0.05	0.3	0.03	0.05	<0.5	1.2
W443378		31	17.4	1.96	46	0.3	0.01	<0.005	0.010	0.002	<0.05	0.4	0.02	0.06	<0.5	0.8
W443379		1	17.1	2.01	45	0.3	0.02	<0.005	0.010	0.002	<0.05	0.7	0.03	0.09	<0.5	0.7
W443380		1	14.7	1.69	39	0.4	0.01	<0.005	0.009	0.001	<0.05	0.3	0.02	0.06	<0.5	1.1
W443381		<1	14.3	1.71	38	0.5	0.01	<0.005	0.010	<0.001	<0.05	0.3	0.02	0.08	<0.5	1.2
W443382		<1	14.5	1.67	40	0.4	0.01	<0.005	0.013	<0.001	<0.05	0.4	0.03	0.07	<0.5	0.6
W443383		<1	16.4	1.88	45	0.3	0.01	<0.005	0.011	<0.001	<0.05	0.6	0.02	0.08	<0.5	<0.5
W443384		<1	16.3	1.82	44	0.3	0.01	<0.005	0.011	0.001	<0.05	0.5	0.03	0.07	<0.5	0.5
W443385		1	14.2	1.62	37	0.3	0.02	<0.005	0.011	0.001	<0.05	0.4	0.04	0.08	<0.5	0.5
W443386		<1	14.9	1.84	41	0.6	0.02	<0.005	0.010	0.001	<0.05	0.7	0.02	0.09	<0.5	<0.5
W443387		1	16.7	1.81	43	0.5	0.03	<0.005	0.012	0.001	0.05	0.8	0.07	0.11	<0.5	<0.5
W443388		4	16.0	1.74	42	0.2	0.03	<0.005	0.010	0.002	<0.05	0.3	0.05	0.10	<0.5	0.6
W443389		1	16.3	1.95	40	0.2	0.03	<0.005	0.009	0.001	0.05	0.4	0.05	0.06	<0.5	<0.5
W443390		4	12.3	1.17	88	4.5	0.70	0.005	0.067	0.005	0.37	5.2	0.55	0.11	1.8	1.1

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012296

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
W443353		1	1	10	<1	<1	4	<1	57	<0.001	<0.005	0.001	0.004
W443354		57	171	20	<1	160	<2	34	121	0.004	0.014	0.019	0.490
W443355		50	167	20	<1	161	<2	37	118	0.002	0.016	0.022	0.377
W443356		48	148	20	<1	151	<2	31	92	0.002	0.015	0.019	0.356
W443357		48	151	20	<1	162	<2	34	96	0.002	0.016	0.020	0.357
W443358		49	141	20	<1	155	<2	35	93	0.003	0.014	0.019	0.296
W443359		50	171	20	<1	160	<2	39	94	0.004	0.014	0.019	0.326
W443360		53	161	30	<1	163	<2	42	96	0.003	0.013	0.019	0.389
W443361		49	178	30	<1	152	<2	40	86	0.003	0.016	0.020	0.385
W443362		50	176	20	<1	159	<2	34	100	0.001	0.014	0.019	0.368
W443363		52	168	20	1	168	<2	33	94	0.002	0.017	0.020	0.366
W443364		51	162	20	<1	163	<2	33	93	0.002	0.015	0.020	0.353
W443365		50	135	20	<1	148	<2	31	103	0.002	0.013	0.019	0.267
W443366		49	176	20	<1	146	<2	29	96	0.002	0.011	0.015	0.370
W443367		49	168	20	<1	153	<2	32	89	0.004	0.012	0.016	0.213
W443368		47	135	30	<1	146	<2	36	100	0.004	0.011	0.015	0.139
W443369		49	176	20	<1	148	<2	33	88	0.002	0.013	0.017	0.369
W443370		50	161	20	<1	162	<2	35	87	0.005	0.015	0.019	0.209
W443371		47	127	30	<1	158	<2	32	87	0.003	0.013	0.019	0.203
W443372		51	164	30	<1	153	<2	29	105	0.004	0.014	0.020	0.369
W443373		145	5360	40	2	2070	5	24	72	0.100	0.715	0.373	11.80
W443374		51	165	20	<1	161	<2	36	102	0.007	0.013	0.017	0.267
W443375		54	172	30	<1	166	<2	38	106	0.002	0.016	0.019	0.317
W443376		53	191	20	<1	158	<2	30	102	0.002	0.015	0.018	0.294
W443377		49	159	20	<1	149	<2	37	93	0.007	0.014	0.017	0.197
W443378		50	160	20	1	153	<2	37	102	0.002	0.014	0.018	0.237
W443379		51	177	20	<1	159	<2	38	97	0.003	0.017	0.020	0.457
W443380		50	164	20	<1	158	<2	33	97	0.002	0.015	0.019	0.244
W443381		51	153	30	<1	158	<2	30	95	0.002	0.013	0.018	0.193
W443382		50	175	30	<1	146	<2	35	95	0.003	0.016	0.019	0.262
W443383		53	176	20	1	154	2	36	102	0.003	0.014	0.019	0.414
W443384		57	171	20	<1	157	<2	42	113	0.004	0.015	0.018	0.316
W443385		47	129	20	1	140	3	37	95	0.010	0.014	0.018	0.320
W443386		54	153	20	1	160	<2	42	104	0.006	0.017	0.020	0.303
W443387		53	272	30	<1	156	<2	40	106	0.010	0.014	0.019	0.463
W443388		55	171	30	1	158	<2	40	141	0.004	0.016	0.019	0.333
W443389		50	128	20	<1	141	<2	41	97	0.002	0.018	0.021	0.312
W443390		112	4300	20	5	4130	18	12	106	0.062	0.278	0.640	4.85

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

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THUNDER BAY ON P7B 2R2

Finalized Date: 8-FEB-2018
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CERTIFICATE OF ANALYSIS TB18012296

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		