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: 9-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18014785

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-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.
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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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CERTIFICATE OF ANALYSIS TB18014785

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
W443703		1.17	19.35	0.37	0.17	27.3	21.2	0.10	0.08	<0.01	<0.01	0.05	0.01	0.01	0.03	29.4
W443704		0.04	42.0	9.01	15.05	16.00	11.20	0.60	0.23	0.11	0.68	0.14	0.11	<0.01	0.03	3.49
W443705		2.95	49.6	15.35	11.70	13.05	5.68	1.72	0.38	0.04	0.87	0.24	0.06	0.01	0.01	1.20
W443706		2.33	48.8	14.90	12.05	13.55	6.11	1.78	0.16	0.04	0.84	0.24	0.06	0.01	<0.01	1.05
W443707		2.59	49.1	15.15	12.25	13.10	6.12	1.98	0.18	0.04	0.85	0.25	0.06	0.01	0.01	0.90
W443708		2.32	49.1	14.95	11.90	12.45	5.95	2.42	0.14	0.04	0.84	0.24	0.07	0.01	<0.01	0.98
W443709		2.55	48.3	14.25	12.35	11.50	7.88	2.31	0.25	0.04	0.83	0.21	0.06	0.01	0.01	1.16
W443710		2.32	47.3	14.55	12.15	11.45	9.50	2.05	0.26	0.04	0.81	0.21	0.06	0.01	0.01	1.23
W443711		2.35	49.2	14.55	12.25	9.93	8.90	2.41	0.18	0.04	0.82	0.20	0.06	0.01	<0.01	1.09
W443712		2.35	47.7	14.60	12.40	11.20	8.70	1.81	0.42	0.04	0.83	0.19	0.06	0.01	0.01	1.46
W443713		2.46	49.4	14.90	12.35	11.95	7.76	1.83	0.38	0.04	0.84	0.20	0.07	0.01	0.01	0.91
W443714		2.37	49.3	14.75	14.70	10.60	7.51	1.95	0.25	0.03	1.18	0.22	0.09	0.01	<0.01	0.95
W443715		2.44	49.2	14.25	15.80	10.35	6.82	1.91	0.26	0.03	1.38	0.24	0.11	0.01	0.01	0.85
W443716		2.34	48.7	14.30	13.55	10.75	7.11	2.39	0.20	0.03	1.07	0.21	0.09	0.01	<0.01	0.91
W443717		2.20	48.4	15.10	12.85	10.80	8.27	2.50	0.26	0.04	0.87	0.22	0.07	0.01	0.01	1.29
W443718		2.56	49.7	15.10	12.70	10.95	8.30	2.62	0.23	0.04	0.86	0.22	0.06	0.01	0.01	1.06
W443719		2.20	48.5	13.95	11.55	11.40	8.29	1.86	0.21	0.04	0.78	0.19	0.06	0.01	<0.01	2.09
W443720		2.26	38.1	11.90	11.85	14.30	11.55	0.91	0.65	0.03	0.69	0.21	0.06	<0.01	0.01	8.48
W443721		2.37	37.0	12.90	11.80	13.25	12.25	0.82	1.05	0.03	0.74	0.19	0.07	<0.01	0.01	9.03
W443722		2.80	48.6	14.45	13.30	9.47	8.72	1.74	0.33	0.04	0.86	0.27	0.06	0.01	0.01	2.02
W443723		0.04	47.2	12.70	20.6	6.33	6.93	2.13	0.64	0.03	1.23	0.19	0.15	0.03	0.02	1.09
W443724		2.48	49.8	15.30	11.95	10.05	7.41	2.20	0.45	0.04	0.83	0.27	0.06	0.01	0.01	2.20
W443725		2.61	49.0	15.45	12.60	11.10	6.47	2.06	0.65	0.05	0.82	0.30	0.05	0.01	0.01	2.16
W443726		3.06	48.9	15.05	11.15	11.40	6.28	2.49	0.33	0.05	0.80	0.26	0.06	0.01	0.01	2.31
W443727		2.85	50.2	16.05	11.15	10.50	5.92	2.17	0.64	0.05	0.86	0.26	0.06	0.01	0.01	1.65
W443728		2.92	50.0	15.35	11.80	11.45	5.41	2.28	0.55	0.04	0.82	0.27	0.05	0.01	0.01	2.25
W443729		2.20	49.0	15.00	12.35	11.50	5.62	2.25	0.33	0.04	0.81	0.25	0.05	0.01	0.01	2.03
W443730		2.58	47.8	13.45	15.70	10.50	5.99	1.86	0.31	0.02	1.25	0.25	0.09	0.01	0.01	1.73
W443731		2.54	47.9	12.75	16.80	11.45	5.71	1.41	0.45	0.02	1.27	0.25	0.10	<0.01	0.01	1.75
W443732		2.67	49.1	14.05	14.95	9.44	5.65	2.22	0.29	0.02	1.33	0.27	0.09	0.01	0.01	0.96
W443733		2.35	47.0	13.10	13.05	10.80	6.15	2.07	0.27	0.03	1.03	0.22	0.09	0.01	<0.01	5.35
W443734		2.29	48.7	14.35	14.40	9.55	7.02	2.11	0.47	0.03	1.05	0.24	0.08	0.01	0.01	1.80
W443735		2.44	46.4	14.55	13.35	12.90	5.91	0.99	1.38	0.03	0.88	0.19	0.06	0.01	0.02	3.89
W443736		3.06	46.1	13.85	12.20	10.50	7.62	2.35	0.51	0.04	0.80	0.21	0.05	0.01	0.01	2.46
W443737		1.34	57.7	17.25	4.46	6.90	4.56	5.57	0.99	0.01	0.50	0.06	0.22	0.08	0.07	1.78
W443738		2.76	49.0	14.20	15.75	7.92	6.74	2.86	0.43	0.02	1.64	0.30	0.14	0.01	0.01	1.16
W443739		2.72	49.5	14.50	15.00	9.62	7.53	2.30	0.41	0.01	1.29	0.21	0.14	0.02	0.02	-0.06
W443740		2.32	49.5	14.25	15.30	9.48	7.58	2.29	0.47	0.01	1.31	0.22	0.14	0.01	0.02	0.04
W443741		2.32	49.0	13.95	15.20	9.47	7.37	2.21	0.39	0.01	1.31	0.22	0.13	0.01	0.02	-0.15
W443742		2.27	48.5	13.75	15.15	9.38	7.50	2.21	0.41	0.01	1.29	0.21	0.13	0.01	0.01	-0.07

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Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443703		98.07	8.75	0.06	264	1.5	<10	0.57	0.09	0.05	<0.03	0.5	0.10	<5	<0.2	0.01
W443704		98.65	0.23	2.66	280	19.0	760	0.38	2.51	1.57	0.72	11.8	2.64	<5	2.0	0.53
W443705		99.91	0.31	0.17	120.0	7.8	290	0.87	3.66	2.25	0.75	18.2	2.92	<5	1.4	0.77
W443706		99.59	0.35	0.13	34.9	7.6	280	0.37	3.25	2.11	0.68	18.1	2.78	<5	1.5	0.74
W443707		100.00	0.21	0.11	46.4	7.4	290	0.35	3.27	2.22	0.70	18.3	2.84	<5	1.5	0.75
W443708		99.09	0.16	0.15	34.0	7.1	290	0.17	3.14	2.09	0.66	17.0	2.58	<5	1.3	0.68
W443709		99.16	0.10	0.16	40.7	7.1	270	0.50	3.04	2.12	0.60	16.6	2.56	<5	1.3	0.67
W443710		99.63	0.04	0.10	45.1	7.0	280	0.65	3.13	2.08	0.68	16.8	2.61	<5	1.3	0.69
W443711		99.64	0.01	0.13	41.6	7.2	270	0.37	3.26	2.11	0.67	17.2	2.55	<5	1.4	0.67
W443712		99.43	0.11	0.23	70.4	7.3	270	1.40	3.30	2.08	0.77	16.7	2.80	<5	1.4	0.74
W443713		100.65	0.11	0.13	64.1	7.0	270	0.90	3.24	2.05	0.65	17.4	2.73	<5	1.4	0.68
W443714		101.54	0.06	0.19	38.8	10.9	240	0.54	4.44	2.85	0.94	19.2	3.66	<5	1.9	0.96
W443715		101.22	0.07	0.23	46.3	12.5	210	0.49	4.78	3.22	1.06	19.2	4.07	<5	2.3	1.06
W443716		99.32	0.12	0.15	41.7	10.1	250	0.38	3.92	2.70	0.89	18.2	3.42	<5	1.8	0.88
W443717		100.69	0.14	0.11	51.4	7.3	280	0.73	3.37	2.25	0.73	17.9	2.67	<5	1.5	0.76
W443718		101.86	0.07	0.12	50.1	7.6	290	0.35	3.43	2.17	0.69	18.3	2.82	<5	1.5	0.74
W443719		98.93	0.39	0.09	39.0	7.0	250	0.73	3.15	2.12	0.78	16.3	2.52	<5	1.2	0.66
W443720		98.74	1.94	0.08	80.3	7.6	230	3.28	2.96	1.92	0.69	14.4	2.49	<5	1.2	0.66
W443721		99.14	1.99	0.13	102.5	6.8	240	4.86	2.95	1.99	0.60	15.1	2.45	<5	1.3	0.67
W443722		99.88	0.14	0.29	55.3	7.8	270	1.65	3.42	2.32	0.70	17.4	2.92	<5	1.4	0.74
W443723		99.27	0.07	1.75	217	26.6	240	0.93	2.71	1.50	1.17	16.6	2.83	<5	2.4	0.52
W443724		100.58	0.34	0.34	66.5	8.0	310	2.10	3.34	2.21	0.74	17.3	2.66	<5	1.4	0.69
W443725		100.73	0.29	0.39	106.5	8.1	350	1.79	3.63	2.26	0.91	18.8	2.95	<5	1.3	0.77
W443726		99.10	0.52	0.34	63.1	7.1	340	0.78	3.45	2.07	0.74	17.4	2.54	<5	1.4	0.68
W443727		99.53	0.20	0.21	97.2	7.3	340	1.59	3.40	2.25	0.80	17.8	2.54	<5	1.3	0.74
W443728		100.29	0.45	0.38	81.1	7.6	330	1.54	3.30	2.28	0.88	18.0	2.79	<5	1.3	0.78
W443729		99.25	0.30	0.89	65.0	9.2	320	0.74	3.42	2.27	0.92	17.7	2.93	<5	1.3	0.79
W443730		98.97	0.27	0.64	55.6	12.4	140	0.65	4.94	3.31	1.08	19.3	3.91	<5	2.2	1.08
W443731		99.87	0.36	0.96	72.5	12.6	110	0.83	5.06	3.37	1.23	19.9	4.17	<5	2.3	1.08
W443732		98.39	0.09	0.24	43.9	12.8	160	0.54	5.03	3.17	1.10	18.8	4.00	<5	2.1	1.09
W443733		99.17	1.15	0.26	43.4	9.7	190	0.94	3.81	2.40	0.85	16.3	3.22	<5	1.7	0.81
W443734		99.82	0.14	0.60	76.7	10.0	250	1.47	4.16	2.57	0.88	17.4	3.30	<5	1.7	0.87
W443735		100.56	0.69	0.38	186.5	7.2	220	3.54	3.32	2.40	0.73	17.1	2.90	<5	1.4	0.77
W443736		96.71	0.30	0.18	97.7	7.9	250	1.15	3.15	2.24	0.70	15.6	2.65	<5	1.3	0.68
W443737		100.15	0.17	0.41	625	72.1	50	1.17	1.62	0.64	1.41	21.7	3.29	<5	2.8	0.29
W443738		100.18	0.05	0.21	92.4	19.8	150	1.90	5.49	3.52	1.26	20.5	4.78	<5	2.6	1.16
W443739		100.49	<0.01	0.02	128.0	17.4	90	1.00	4.44	2.69	1.11	20.3	3.80	<5	2.3	0.94
W443740		100.62	0.01	0.03	143.0	18.5	100	1.17	4.64	2.87	1.21	20.9	4.33	<5	2.5	1.00
W443741		99.14	<0.01	0.02	138.0	18.6	100	1.12	4.70	2.82	1.17	19.8	4.12	<5	2.4	1.00
W443742		98.49	<0.01	0.03	134.0	18.4	100	1.12	4.61	2.75	1.19	20.8	4.17	<5	2.5	0.94

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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
W443703		1.0	0.01	0.2	0.6	0.15	3.3	0.12	<1	140.0	<0.1	0.01	0.21	0.01	0.32	<5
W443704		9.1	0.23	6.2	10.4	2.38	4.5	2.44	2	61.7	0.4	0.42	1.93	0.22	0.91	172
W443705		2.8	0.37	2.4	6.2	1.22	9.2	2.16	<1	138.5	0.1	0.50	0.22	0.36	0.06	322
W443706		2.7	0.35	2.4	6.1	1.19	3.3	2.06	<1	120.5	0.1	0.49	0.26	0.35	0.05	314
W443707		2.7	0.34	2.5	6.0	1.21	3.6	2.11	1	141.5	0.1	0.48	0.24	0.32	0.06	314
W443708		2.6	0.32	2.3	5.7	1.15	2.0	1.92	<1	138.5	0.1	0.46	0.20	0.35	0.05	298
W443709		2.5	0.34	2.3	5.9	1.07	5.2	2.02	<1	115.0	0.1	0.47	0.20	0.35	0.05	295
W443710		2.5	0.31	2.2	5.7	1.08	5.7	1.98	<1	102.0	0.1	0.46	0.24	0.33	<0.05	293
W443711		2.6	0.34	2.3	5.8	1.14	3.5	1.97	<1	96.1	0.1	0.48	0.21	0.33	0.05	302
W443712		2.7	0.33	2.4	5.8	1.15	12.5	1.89	<1	86.8	0.1	0.48	0.35	0.33	0.05	303
W443713		2.6	0.36	2.3	5.6	1.11	9.7	1.88	<1	101.0	0.1	0.48	0.18	0.34	<0.05	303
W443714		4.1	0.45	3.6	8.8	1.69	4.7	2.84	<1	104.5	0.2	0.63	0.34	0.45	0.08	340
W443715		4.7	0.50	4.2	9.6	1.95	5.0	3.13	1	115.0	0.2	0.70	0.39	0.46	0.10	340
W443716		3.8	0.44	3.2	7.9	1.54	3.0	2.79	<1	116.0	0.2	0.62	0.31	0.42	0.08	322
W443717		2.7	0.35	2.4	6.5	1.18	5.4	2.06	<1	109.5	0.1	0.51	0.19	0.36	<0.05	308
W443718		2.7	0.35	2.4	6.4	1.20	4.1	1.96	<1	112.5	0.1	0.48	0.21	0.36	<0.05	319
W443719		2.6	0.32	2.2	5.4	1.12	4.9	1.87	<1	100.0	0.1	0.44	0.20	0.31	<0.05	285
W443720		2.9	0.31	2.1	6.0	1.14	18.4	1.96	<1	44.9	0.1	0.45	0.48	0.30	0.05	266
W443721		2.6	0.31	2.1	5.2	1.03	27.2	1.73	<1	42.5	0.1	0.41	0.27	0.29	0.05	270
W443722		2.9	0.35	2.4	6.1	1.20	8.5	2.02	<1	81.0	0.1	0.51	0.25	0.36	0.06	309
W443723		11.9	0.19	7.4	13.5	3.30	15.8	2.96	4	255	0.4	0.45	1.50	0.22	0.44	128
W443724		3.0	0.32	2.6	6.0	1.23	11.1	2.04	<1	82.6	0.1	0.51	0.33	0.35	0.07	305
W443725		3.1	0.35	2.3	6.4	1.29	15.9	2.27	<1	95.6	0.1	0.54	0.57	0.36	0.06	322
W443726		2.6	0.34	2.2	5.5	1.11	7.0	1.86	<1	105.5	0.1	0.49	0.21	0.33	0.06	306
W443727		2.9	0.32	2.2	6.3	1.17	16.8	2.01	<1	92.4	0.1	0.52	0.27	0.32	0.15	325
W443728		2.9	0.33	2.2	6.2	1.21	14.6	1.75	<1	110.0	0.1	0.55	0.29	0.33	0.10	325
W443729		3.6	0.33	2.6	7.0	1.40	7.7	2.17	<1	113.0	0.1	0.51	0.67	0.35	0.08	314
W443730		4.6	0.48	3.8	9.1	1.86	6.4	2.80	1	77.7	0.2	0.73	0.43	0.50	0.10	383
W443731		5.1	0.51	3.8	10.3	2.01	9.3	3.22	1	77.1	0.2	0.77	0.38	0.52	0.10	382
W443732		4.9	0.48	3.9	10.0	2.00	5.2	3.12	1	85.2	0.2	0.76	0.42	0.51	0.11	393
W443733		3.8	0.38	2.8	7.7	1.51	6.4	2.53	1	86.7	0.2	0.54	0.26	0.35	0.08	318
W443734		3.9	0.40	2.8	7.7	1.57	12.2	2.62	<1	71.0	0.1	0.63	0.26	0.40	0.08	343
W443735		2.8	0.36	2.3	6.2	1.20	36.7	1.97	<1	76.2	0.1	0.54	0.30	0.33	<0.05	335
W443736		3.0	0.29	2.2	6.2	1.19	11.4	1.81	<1	97.2	0.1	0.48	0.25	0.30	0.06	302
W443737		35.0	0.09	7.2	34.7	8.96	22.7	5.86	1	753	0.4	0.37	5.76	0.08	1.74	91
W443738		8.0	0.50	5.3	13.6	2.90	8.1	3.59	1	156.0	0.3	0.86	0.89	0.50	0.24	372
W443739		7.9	0.36	4.6	11.4	2.46	11.8	3.43	1	149.5	0.3	0.73	1.13	0.38	0.32	337
W443740		8.2	0.39	4.9	12.1	2.57	14.4	3.38	1	153.0	0.3	0.77	1.19	0.41	0.39	354
W443741		8.2	0.40	5.0	12.0	2.60	11.6	3.41	3	148.0	0.3	0.73	1.15	0.42	0.31	355
W443742		8.4	0.37	4.7	12.1	2.57	12.1	3.46	1	147.5	0.3	0.79	1.12	0.44	0.40	357

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

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

Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443703		1	0.7	0.07	3	0.6	0.01	0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.07	<0.5	<0.5
W443704		1	13.6	1.40	80	41.4	0.29	0.118	0.050	0.016	1.35	10.3	1.28	0.05	2.6	0.7
W443705		1	19.1	2.16	54	0.3	0.01	0.015	0.010	0.001	0.05	0.4	0.03	0.07	<0.5	<0.5
W443706		1	18.8	2.13	52	0.1	0.02	0.007	0.009	<0.001	<0.05	0.3	0.02	0.03	<0.5	<0.5
W443707		1	19.0	2.18	53	0.2	0.01	0.008	0.005	<0.001	<0.05	0.4	0.03	0.03	<0.5	<0.5
W443708		1	18.0	2.08	50	0.3	0.01	0.012	0.007	<0.001	<0.05	0.5	0.03	0.03	<0.5	<0.5
W443709		1	18.0	2.12	50	0.2	0.02	0.010	0.006	0.001	<0.05	0.4	0.03	0.04	<0.5	<0.5
W443710		1	17.7	2.08	49	0.1	0.02	0.009	0.008	<0.001	<0.05	0.3	0.02	0.04	<0.5	<0.5
W443711		1	18.4	2.07	50	0.1	0.01	0.008	0.007	<0.001	<0.05	0.5	0.01	0.04	<0.5	<0.5
W443712		1	18.5	2.30	51	0.1	0.04	<0.005	0.008	0.001	<0.05	0.5	0.06	0.08	<0.5	<0.5
W443713		3	17.8	2.11	51	0.2	0.01	<0.005	0.007	<0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W443714		1	24.4	2.98	76	0.1	0.01	0.005	0.011	0.001	<0.05	0.5	0.02	0.04	<0.5	<0.5
W443715		1	26.2	3.13	86	0.2	0.01	<0.005	0.011	0.002	<0.05	0.7	0.02	0.02	<0.5	<0.5
W443716		1	22.5	2.65	69	0.1	0.01	0.005	0.010	<0.001	<0.05	0.4	<0.01	0.03	<0.5	0.5
W443717		1	19.1	2.25	52	0.2	0.01	0.007	0.009	<0.001	<0.05	0.5	0.02	0.04	<0.5	<0.5
W443718		1	19.1	2.27	53	0.1	0.01	<0.005	0.008	0.001	<0.05	0.5	0.01	0.04	<0.5	<0.5
W443719		1	17.6	2.00	47	0.2	<0.01	0.008	0.009	0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
W443720		1	16.6	1.89	44	<0.1	0.01	0.006	0.010	<0.001	<0.05	0.2	0.01	0.08	<0.5	0.5
W443721		1	16.5	1.96	46	0.1	0.01	<0.005	0.011	0.001	<0.05	0.3	0.02	0.11	<0.5	<0.5
W443722		1	19.6	2.24	52	0.2	0.02	0.005	0.010	0.001	<0.05	0.8	0.03	0.05	<0.5	<0.5
W443723		4	13.0	1.40	102	3.5	0.72	0.016	0.061	0.005	0.30	4.8	0.50	0.09	1.8	0.7
W443724		1	18.7	2.15	50	0.2	0.04	<0.005	0.009	<0.001	<0.05	0.6	0.04	0.09	<0.5	<0.5
W443725		1	19.4	2.28	52	0.1	0.04	0.006	0.012	<0.001	<0.05	0.6	0.06	0.10	<0.5	<0.5
W443726		1	17.8	2.16	50	0.2	0.02	<0.005	0.009	0.001	<0.05	0.4	0.04	0.05	<0.5	<0.5
W443727		1	19.1	2.03	50	<0.1	0.02	0.006	0.009	<0.001	<0.05	0.4	0.03	0.08	<0.5	<0.5
W443728		2	19.4	2.10	49	0.2	0.04	<0.005	0.011	0.001	<0.05	0.5	0.07	0.09	<0.5	<0.5
W443729		46	19.7	2.16	49	0.1	0.09	<0.005	0.008	0.001	<0.05	0.9	0.11	0.07	<0.5	<0.5
W443730		1	28.0	2.97	81	0.1	0.03	<0.005	0.014	0.001	<0.05	0.9	0.05	0.03	<0.5	<0.5
W443731		5	28.8	3.19	85	0.1	0.05	0.005	0.015	0.001	<0.05	1.2	0.10	0.04	<0.5	<0.5
W443732		<1	28.5	3.15	82	0.3	0.03	0.008	0.014	0.001	<0.05	0.6	0.02	0.02	<0.5	<0.5
W443733		3	21.7	2.51	64	0.1	0.02	0.009	0.013	0.001	<0.05	0.4	0.02	0.04	<0.5	<0.5
W443734		2	23.3	2.57	63	0.1	0.04	0.005	0.011	0.001	<0.05	0.8	0.05	0.07	<0.5	<0.5
W443735		2	20.2	2.35	51	0.1	0.04	0.006	0.011	0.001	<0.05	0.8	0.06	0.14	<0.5	<0.5
W443736		2	17.9	1.95	49	0.2	0.02	0.005	0.010	<0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
W443737		1	7.5	0.54	107	0.1	0.04	0.010	0.007	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443738		2	30.6	3.24	102	0.1	0.02	<0.005	0.014	0.002	<0.05	0.3	0.01	0.05	<0.5	0.8
W443739		1	24.6	2.55	92	0.5	0.02	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.18	<0.5	<0.5
W443740		1	25.5	2.56	93	0.4	0.02	<0.005	0.012	0.001	<0.05	0.2	<0.01	0.22	<0.5	<0.5
W443741		<1	25.5	2.70	98	0.2	0.02	<0.005	0.012	<0.001	<0.05	0.3	<0.01	0.08	<0.5	<0.5
W443742		<1	25.5	2.68	95	0.4	0.02	<0.005	0.012	<0.001	<0.05	0.3	<0.01	0.19	<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: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443703		<1	1	20	<1	<1	8	<1	27	<0.001	<0.005	0.001	0.005
W443704		151	5470	40	3	2100	9	25	77	0.180	0.703	0.379	11.20
W443705		48	123	20	<1	136	4	42	114	0.001	<0.005	0.001	0.199
W443706		47	115	20	<1	134	2	40	101	<0.001	<0.005	0.001	0.266
W443707		47	115	10	<1	136	3	40	104	<0.001	<0.005	<0.001	0.218
W443708		51	114	10	<1	141	2	42	108	0.001	<0.005	0.001	0.275
W443709		48	98	20	<1	138	4	40	96	<0.001	<0.005	0.001	0.309
W443710		50	76	20	<1	165	3	40	101	<0.001	<0.005	0.001	0.198
W443711		48	136	20	<1	128	3	43	84	<0.001	<0.005	<0.001	0.324
W443712		48	129	30	<1	129	<2	40	87	0.003	<0.005	<0.001	0.394
W443713		49	145	20	<1	131	2	41	94	0.006	<0.005	0.001	0.245
W443714		50	141	20	<1	110	<2	40	108	<0.001	<0.005	0.001	0.373
W443715		51	119	20	<1	97	3	39	120	<0.001	<0.005	0.003	0.392
W443716		49	117	20	<1	115	3	41	112	<0.001	<0.005	0.002	0.285
W443717		50	135	20	<1	136	2	43	99	<0.001	<0.005	0.001	0.319
W443718		47	147	20	<1	126	<2	41	89	0.003	<0.005	0.001	0.378
W443719		45	128	20	<1	122	2	39	89	<0.001	<0.005	0.001	0.255
W443720		40	44	30	<1	101	<2	33	86	<0.001	<0.005	<0.001	0.142
W443721		42	76	40	<1	113	3	36	81	<0.001	<0.005	<0.001	0.219
W443722		51	172	30	<1	122	3	42	100	<0.001	<0.005	0.001	0.646
W443723		113	4470	20	4	4290	23	12	103	0.088	0.314	0.601	4.45
W443724		48	149	30	<1	137	<2	42	100	<0.001	<0.005	0.003	0.438
W443725		52	166	20	<1	139	<2	42	114	0.001	<0.005	0.003	0.515
W443726		56	150	10	<1	144	3	41	95	0.001	<0.005	0.003	0.556
W443727		54	137	20	<1	148	<2	43	93	0.001	<0.005	0.004	0.308
W443728		55	145	20	<1	148	3	42	104	<0.001	<0.005	0.003	0.461
W443729		57	334	20	<1	142	2	42	110	0.002	<0.005	0.003	0.913
W443730		48	167	20	<1	72	<2	40	102	0.001	<0.005	0.002	0.710
W443731		56	365	20	<1	73	3	41	100	0.002	<0.005	0.001	1.100
W443732		47	94	20	<1	79	<2	45	116	0.002	<0.005	0.002	0.306
W443733		40	89	40	<1	87	2	38	113	0.004	<0.005	0.002	0.308
W443734		58	210	30	<1	128	4	41	115	0.002	0.005	0.010	0.625
W443735		49	267	40	<1	120	2	42	93	0.003	0.011	0.014	0.729
W443736		50	175	30	<1	132	<2	39	101	0.002	<0.005	0.001	0.469
W443737		23	55	20	1	122	6	6	59	0.001	<0.005	0.001	0.107
W443738		47	77	30	<1	84	<2	36	124	<0.001	<0.005	0.002	0.290
W443739		59	194	10	1	162	2	32	120	0.003	<0.005	0.021	0.158
W443740		61	203	20	<1	167	3	34	125	0.004	<0.005	0.020	0.143
W443741		59	216	10	<1	158	2	34	131	0.006	0.006	0.020	0.132
W443742		62	207	20	<1	164	3	34	130	0.005	0.007	0.020	0.156

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443743		1.00	23.0	0.21	0.16	25.6	19.75	0.14	0.08	<0.01	0.01	0.05	<0.01	0.01	0.01	29.8
W443744		2.36	48.6	13.75	15.20	9.43	7.47	2.18	0.38	0.01	1.30	0.22	0.14	0.01	0.02	-0.12
W443745		2.31	48.9	14.00	15.25	9.40	7.28	2.22	0.48	0.01	1.33	0.22	0.13	0.02	0.02	0.17
W443746		2.36	47.0	13.25	15.20	10.65	7.21	2.36	0.53	0.01	1.30	0.22	0.18	0.01	0.01	1.99
W443747		2.22	49.6	13.95	15.40	9.65	7.04	2.23	0.46	0.01	1.35	0.22	0.16	0.01	0.02	0.14
W443748		2.50	49.4	13.95	15.20	9.62	6.83	2.26	0.46	0.01	1.37	0.22	0.14	0.01	0.02	0.19
W443749		1.99	48.8	13.60	15.10	9.58	6.39	2.29	0.44	0.01	1.38	0.22	0.13	0.01	0.02	0.29
W443750		2.07	48.3	13.45	14.70	10.00	6.34	2.30	0.48	0.01	1.38	0.23	0.14	0.01	0.02	0.74
W443751		2.56	48.6	13.60	13.45	9.13	7.32	2.35	0.95	0.03	0.79	0.23	0.05	0.01	0.02	1.48
W443752		2.23	48.3	14.05	13.15	9.64	7.30	2.19	0.85	0.03	0.83	0.24	0.05	0.02	0.01	1.35
W443753		2.29	48.4	13.65	14.10	9.62	7.08	2.05	0.68	0.03	0.98	0.26	0.06	0.01	0.01	1.34
W443754		2.38	49.4	14.20	13.60	9.59	7.39	2.20	0.79	0.03	0.86	0.25	0.05	0.01	0.02	1.32
W443755		2.36	48.7	14.00	13.25	9.43	7.70	2.14	0.85	0.03	0.83	0.27	0.05	0.01	0.02	1.84
W443756		1.99	49.6	14.20	13.30	9.45	7.06	1.87	1.37	0.03	0.82	0.24	0.05	0.02	0.03	1.66
W443757		2.53	73.7	10.30	5.88	4.36	1.59	1.89	0.74	<0.01	0.24	0.12	0.07	0.01	0.02	1.85
W443758		1.95	74.0	12.75	3.59	3.40	1.09	3.58	0.93	<0.01	0.27	0.11	0.08	0.02	0.03	1.43
W443759		2.06	74.9	12.80	3.53	2.42	1.00	3.86	0.90	<0.01	0.27	0.08	0.11	0.02	0.03	1.42
W443760		2.02	71.1	12.45	5.92	2.20	0.75	3.20	2.07	<0.01	0.26	0.05	0.09	0.01	0.06	2.16
W443761		1.98	71.6	12.85	4.67	2.47	1.02	2.89	1.46	<0.01	0.26	0.06	0.09	0.01	0.03	2.13
W443762		2.17	72.1	13.30	3.50	2.58	1.03	2.36	1.89	<0.01	0.34	0.06	0.12	0.01	0.03	1.87
W443763		0.04	41.0	8.98	15.15	15.95	10.85	0.60	0.22	0.10	0.68	0.14	0.12	<0.01	0.03	4.39
W443764		2.23	67.6	14.50	4.80	3.15	1.41	2.77	1.64	0.01	0.55	0.12	0.10	0.02	0.03	1.50
W443765		2.23	68.7	13.60	3.96	4.16	1.93	2.55	1.61	<0.01	0.34	0.12	0.09	0.02	0.04	1.28
W443766		2.37	62.3	14.15	7.35	4.63	3.36	2.76	1.59	0.01	0.60	0.16	0.10	0.01	0.03	1.34
W443767		2.25	69.0	15.75	3.28	2.95	2.03	3.46	2.01	<0.01	0.30	0.05	0.11	0.01	0.03	1.43
W443768		2.08	68.6	15.75	3.37	2.76	2.01	3.27	1.90	<0.01	0.30	0.04	0.10	0.01	0.03	1.67
W443769		2.18	69.5	15.85	2.99	3.00	2.04	3.62	1.88	<0.01	0.30	0.04	0.09	0.01	0.03	1.32
W443770		1.90	69.4	15.85	3.00	2.86	1.98	3.54	2.05	<0.01	0.30	0.04	0.09	0.01	0.03	1.43
W443771		2.34	69.1	15.70	3.10	2.75	1.93	3.31	2.08	<0.01	0.29	0.04	0.10	0.01	0.02	1.71
W443772		2.22	70.2	15.70	2.95	3.00	1.86	3.28	2.07	<0.01	0.29	0.04	0.09	0.01	0.02	1.49
W443773		2.36	70.0	15.90	2.77	3.20	1.73	3.31	2.18	<0.01	0.30	0.03	0.10	0.01	0.02	1.72
W443774		2.01	69.1	15.85	2.90	2.85	1.86	4.57	1.25	<0.01	0.30	0.04	0.10	0.02	0.02	1.43
W443775		2.06	68.8	15.95	2.94	3.69	1.62	3.51	2.19	<0.01	0.31	0.05	0.09	0.02	0.03	1.59
W443776		1.95	69.2	16.00	3.23	3.19	1.91	3.93	1.60	<0.01	0.31	0.04	0.09	0.02	0.02	1.26
W443777		2.14	69.6	15.35	3.22	3.02	2.03	3.59	1.65	<0.01	0.29	0.04	0.10	0.02	0.02	1.44
W443778		2.26	69.0	15.95	3.24	3.10	2.15	3.84	1.75	<0.01	0.31	0.04	0.09	0.02	0.03	1.37
W443779		2.19	68.9	15.50	3.56	3.07	2.40	3.71	1.60	<0.01	0.31	0.05	0.09	0.02	0.02	1.46
W443780		0.04	46.7	12.85	21.0	6.38	6.78	2.16	0.63	0.03	1.24	0.19	0.17	0.03	0.02	1.21

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

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

Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443743		98.82	8.05	0.01	131.0	1.4	<10	0.69	0.09	0.04	<0.03	0.3	0.07	<5	<0.2	0.01
W443744		98.59	0.01	0.02	132.0	17.4	90	1.11	4.49	2.65	1.10	19.2	4.19	<5	2.4	0.96
W443745		99.43	0.02	0.02	147.5	19.0	90	1.39	5.02	3.05	1.22	20.5	4.40	<5	2.4	1.00
W443746		99.92	0.04	0.06	125.0	35.2	100	0.98	5.19	2.95	1.26	18.2	4.62	<5	2.4	1.03
W443747		100.24	<0.01	0.02	150.0	21.3	100	1.48	4.92	3.12	1.28	21.4	4.65	<5	2.6	1.08
W443748		99.68	0.01	0.03	146.5	19.5	100	1.21	4.87	3.00	1.23	20.4	4.30	<5	2.6	1.07
W443749		98.26	<0.01	0.04	173.5	20.7	100	1.38	4.94	3.03	1.23	21.1	4.59	<5	2.6	1.05
W443750		98.10	<0.01	0.10	137.5	25.2	100	1.46	5.35	3.28	1.42	20.6	4.80	<5	3.0	1.10
W443751		98.01	0.04	0.21	151.0	6.7	220	0.81	3.10	2.10	0.78	16.2	2.51	<5	1.3	0.71
W443752		98.01	0.03	0.25	116.0	6.5	220	0.66	3.03	2.07	0.72	16.6	2.50	<5	1.3	0.67
W443753		98.27	0.03	0.17	109.0	7.3	190	0.46	3.31	2.19	0.78	17.2	2.81	<5	1.4	0.73
W443754		99.71	0.04	0.25	148.0	7.6	210	0.55	3.15	1.97	0.74	17.5	2.59	<5	1.2	0.70
W443755		99.12	0.03	0.25	170.5	8.3	220	0.74	3.20	2.24	0.83	17.2	2.79	<5	1.2	0.75
W443756		99.70	0.04	0.12	280	7.1	230	0.89	3.11	2.17	0.78	17.2	2.80	<5	1.4	0.75
W443757		100.77	0.06	0.56	191.5	41.4	20	0.61	0.95	0.55	0.65	15.1	1.41	<5	2.8	0.17
W443758		101.28	0.07	0.21	258	48.5	10	0.35	0.98	0.50	0.64	17.3	1.39	<5	3.4	0.19
W443759		101.34	0.05	0.44	268	48.3	10	0.42	1.02	0.46	0.56	17.9	1.61	<5	3.4	0.18
W443760		100.32	0.03	1.86	510	43.3	20	0.69	1.00	0.45	0.60	18.1	1.51	<5	3.5	0.18
W443761		99.54	0.06	1.13	254	62.8	20	0.79	1.18	0.58	0.77	17.0	1.84	<5	3.4	0.19
W443762		99.19	0.04	0.45	297	45.3	30	0.80	1.07	0.57	0.62	16.8	1.53	<5	3.6	0.19
W443763		98.21	0.26	2.57	296	21.3	830	0.45	2.57	1.57	0.77	10.8	2.78	<5	2.1	0.50
W443764		98.20	0.03	0.18	323	41.9	70	1.81	1.67	0.85	0.70	18.7	2.12	<5	3.2	0.32
W443765		98.40	0.04	0.09	410	50.6	30	1.22	1.10	0.55	0.68	17.9	1.78	<5	3.8	0.19
W443766		98.39	0.03	0.08	316	33.3	70	2.09	2.27	1.33	0.77	17.4	2.33	<5	3.1	0.47
W443767		100.41	0.03	<0.01	252	34.0	10	1.83	0.88	0.42	0.56	18.4	1.40	<5	3.2	0.15
W443768		99.81	0.05	0.01	257	33.4	10	1.31	0.89	0.37	0.56	18.8	1.30	<5	3.3	0.15
W443769		100.67	0.02	<0.01	270	29.0	10	2.02	0.78	0.38	0.57	18.5	1.21	<5	3.2	0.15
W443770		100.58	0.02	0.01	259	29.8	10	1.75	0.80	0.31	0.54	18.4	1.22	<5	3.2	0.15
W443771		100.14	0.03	0.03	223	31.6	10	1.36	0.83	0.34	0.54	18.7	1.18	<5	3.4	0.13
W443772		101.00	0.03	0.02	201	35.2	10	1.85	0.87	0.36	0.53	19.0	1.34	<5	3.5	0.14
W443773		101.27	0.06	0.01	196.0	35.1	10	1.44	0.87	0.38	0.51	18.8	1.45	<5	3.4	0.15
W443774		100.29	0.03	<0.01	140.5	27.9	10	1.08	0.77	0.35	0.56	18.6	1.27	<5	3.4	0.13
W443775		100.79	0.03	0.01	264	42.5	10	1.26	1.01	0.45	0.67	18.6	1.61	<5	3.3	0.15
W443776		100.80	0.03	0.02	170.0	33.8	20	1.80	0.81	0.40	0.58	18.4	1.30	<5	3.1	0.13
W443777		100.37	0.03	0.03	215	33.2	20	1.55	0.95	0.45	0.59	18.5	1.38	<5	3.1	0.13
W443778		100.89	0.02	0.03	250	34.7	20	1.95	0.81	0.40	0.56	19.3	1.43	<5	3.1	0.14
W443779		100.69	0.01	0.06	191.5	32.2	20	2.63	0.79	0.37	0.56	17.6	1.30	<5	3.2	0.14
W443780		99.39	0.09	1.69	218	29.1	250	0.94	2.64	1.47	1.09	15.3	2.97	<5	2.6	0.51

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

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

Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443743		1.1	0.01	0.9	0.5	0.13	2.7	0.10	<1	144.0	<0.1	0.01	0.15	0.01	0.41	5
W443744		7.9	0.34	4.6	11.4	2.45	10.7	3.49	1	141.5	0.2	0.72	1.05	0.38	0.29	343
W443745		8.9	0.39	5.0	12.1	2.58	15.2	3.65	1	155.5	0.3	0.79	1.18	0.47	0.41	362
W443746		19.9	0.39	5.6	15.4	3.95	16.7	4.08	1	120.5	0.3	0.82	1.48	0.41	2.06	367
W443747		9.9	0.39	5.0	12.8	2.90	14.1	3.87	1	150.5	0.3	0.80	1.34	0.45	0.45	377
W443748		9.1	0.41	5.2	12.5	2.79	14.3	3.60	1	152.0	0.3	0.83	1.21	0.43	0.40	370
W443749		9.5	0.41	5.3	12.8	2.85	14.0	3.74	1	145.5	0.3	0.81	1.27	0.45	0.58	380
W443750		12.0	0.45	5.4	14.4	3.29	15.1	3.83	1	136.0	0.3	0.84	1.36	0.47	1.45	385
W443751		2.5	0.31	1.9	5.8	1.01	29.6	2.04	1	138.0	0.1	0.47	0.17	0.30	<0.05	308
W443752		2.4	0.29	1.9	5.5	1.06	26.2	1.72	<1	147.5	0.1	0.49	0.16	0.29	<0.05	307
W443753		2.7	0.32	2.2	6.1	1.20	20.2	2.15	<1	148.0	0.1	0.52	0.17	0.34	0.05	367
W443754		2.9	0.30	3.0	6.2	1.21	22.9	1.91	1	139.0	0.1	0.48	0.24	0.29	0.05	332
W443755		3.4	0.32	2.5	6.3	1.23	27.2	2.15	<1	125.5	0.1	0.52	0.20	0.32	0.14	312
W443756		2.8	0.30	2.2	5.7	1.12	40.6	2.01	<1	153.5	0.1	0.49	0.18	0.34	0.05	309
W443757		24.0	0.07	3.6	14.1	4.32	19.1	2.02	1	126.0	0.3	0.18	3.65	0.08	0.93	41
W443758		28.1	0.07	4.4	16.2	5.04	19.3	2.44	<1	183.0	0.3	0.20	4.58	0.06	0.87	33
W443759		26.8	0.06	4.5	16.8	5.03	19.5	2.11	<1	197.5	0.4	0.19	4.71	0.08	0.79	32
W443760		23.3	0.06	4.5	15.2	4.53	45.3	2.31	<1	152.5	0.4	0.19	4.54	0.07	0.84	33
W443761		35.2	0.08	4.1	20.8	6.26	38.0	2.75	1	151.5	0.3	0.23	5.27	0.08	0.79	35
W443762		24.4	0.08	4.7	15.7	4.68	50.4	2.24	1	132.5	0.4	0.22	4.71	0.08	0.79	46
W443763		10.2	0.23	6.4	11.3	2.65	5.1	2.73	2	68.1	0.4	0.43	2.00	0.23	1.01	194
W443764		21.7	0.11	4.5	15.6	4.50	44.6	2.60	<1	211	0.4	0.27	4.09	0.14	0.77	131
W443765		26.6	0.08	4.5	17.0	5.19	38.0	2.54	1	221	0.4	0.22	4.84	0.07	0.92	52
W443766		16.7	0.22	4.1	13.7	3.65	41.4	2.73	1	162.5	0.3	0.36	3.14	0.20	0.70	160
W443767		17.7	0.05	3.7	13.0	3.66	55.9	1.95	<1	144.0	0.3	0.19	3.73	0.06	1.12	37
W443768		16.9	0.05	3.7	12.1	3.59	52.0	2.03	<1	128.0	0.4	0.16	3.79	0.06	1.10	37
W443769		15.1	0.05	3.8	11.1	3.18	56.8	1.67	<1	142.0	0.4	0.15	3.92	0.05	1.07	37
W443770		15.5	0.05	3.8	11.0	3.19	60.2	1.69	<1	136.5	0.4	0.15	3.77	0.05	1.16	36
W443771		16.2	0.04	3.8	11.9	3.41	57.9	1.78	<1	124.0	0.4	0.16	3.95	0.05	1.13	34
W443772		18.7	0.04	3.8	12.6	3.68	64.0	1.96	1	134.5	0.4	0.17	4.13	0.06	1.18	33
W443773		18.3	0.04	3.8	13.0	3.77	67.6	2.06	<1	125.0	0.4	0.18	4.06	0.05	1.17	33
W443774		14.4	0.05	3.7	10.7	3.03	44.0	1.70	<1	177.5	0.4	0.17	3.78	0.05	1.06	35
W443775		22.1	0.04	3.8	16.0	4.55	68.4	2.38	<1	200.0	0.4	0.19	3.79	0.06	1.15	39
W443776		17.2	0.05	3.7	12.9	3.65	48.3	1.96	<1	205	0.4	0.17	3.61	0.06	1.10	39
W443777		17.3	0.05	3.7	13.0	3.67	48.9	1.92	<1	185.5	0.3	0.15	3.65	0.05	1.11	39
W443778		17.7	0.04	3.8	13.3	3.71	49.3	1.95	<1	201	0.4	0.17	3.74	0.05	1.13	42
W443779		16.3	0.05	3.7	11.8	3.45	48.2	1.90	<1	175.5	0.4	0.18	3.62	0.06	1.08	40
W443780		13.2	0.18	7.1	14.5	3.53	16.8	3.07	4	272	0.4	0.45	2.07	0.20	0.55	131

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

Finalized Date: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443743		1	0.6	0.07	2	0.4	0.04	0.007	<0.005	<0.001	0.09	<0.2	<0.01	0.06	<0.5	<0.5
W443744		<1	24.5	2.57	87	0.5	0.02	<0.005	0.012	<0.001	<0.05	0.5	<0.01	0.07	<0.5	<0.5
W443745		<1	26.3	2.78	93	0.6	0.02	<0.005	0.012	<0.001	<0.05	0.4	<0.01	0.18	<0.5	<0.5
W443746		2	27.3	2.73	88	0.2	0.02	<0.005	0.010	<0.001	<0.05	0.3	0.01	0.54	<0.5	0.5
W443747		1	27.8	2.90	98	0.5	0.02	<0.005	0.011	0.001	<0.05	0.2	0.01	0.11	<0.5	<0.5
W443748		<1	26.9	2.78	97	0.4	0.02	<0.005	0.010	0.001	<0.05	0.3	0.01	0.16	<0.5	0.6
W443749		1	28.0	2.81	102	0.7	0.03	<0.005	0.011	0.001	<0.05	0.6	0.01	0.22	<0.5	0.6
W443750		2	28.4	3.09	100	0.6	0.05	<0.005	0.011	<0.001	<0.05	0.6	0.02	0.43	<0.5	0.6
W443751		<1	17.4	1.97	45	0.4	0.04	<0.005	0.010	0.001	0.05	0.4	0.04	0.05	<0.5	0.5
W443752		1	17.5	1.91	46	0.8	0.06	<0.005	0.009	0.001	0.06	0.6	0.04	0.04	<0.5	<0.5
W443753		1	19.3	2.16	51	0.6	0.04	<0.005	0.010	0.001	0.06	0.5	0.03	0.04	<0.5	0.5
W443754		1	17.8	1.94	45	0.1	0.04	<0.005	0.009	0.002	0.05	0.4	0.05	0.03	<0.5	0.6
W443755		1	18.2	2.08	45	1.6	0.18	<0.005	0.011	0.002	0.05	0.5	0.07	0.03	<0.5	<0.5
W443756		1	18.5	2.07	49	0.1	0.03	<0.005	0.007	0.001	<0.05	0.3	0.03	0.03	<0.5	<0.5
W443757		10	5.2	0.47	123	0.9	0.12	<0.005	0.012	0.001	0.07	0.2	0.03	0.04	<0.5	<0.5
W443758		1	5.0	0.42	142	0.4	0.05	<0.005	0.011	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W443759		1	5.1	0.43	145	0.8	0.15	<0.005	0.006	<0.001	0.06	0.3	0.02	0.02	<0.5	<0.5
W443760		2	4.9	0.46	149	0.6	0.16	<0.005	0.007	<0.001	0.12	1.2	0.05	0.12	<0.5	<0.5
W443761		3	5.7	0.45	138	0.3	0.15	<0.005	<0.005	0.001	<0.05	0.6	0.03	0.13	<0.5	<0.5
W443762		<1	6.0	0.51	140	0.5	0.09	<0.005	<0.005	<0.001	<0.05	0.2	0.02	0.11	<0.5	<0.5
W443763		2	14.8	1.40	76	39.6	0.30	0.107	0.043	0.012	1.19	11.8	1.27	0.06	2.8	1.0
W443764		<1	8.0	0.81	128	0.1	0.05	<0.005	0.015	0.001	0.09	0.3	0.01	0.09	<0.5	<0.5
W443765		1	5.7	0.53	146	0.5	0.05	0.005	0.014	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443766		<1	12.6	1.36	113	0.3	0.04	<0.005	0.014	<0.001	0.06	<0.2	0.03	0.09	<0.5	0.5
W443767		<1	4.3	0.36	117	<0.1	0.03	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443768		<1	4.2	0.35	118	0.5	0.07	0.005	0.009	<0.001	<0.05	0.2	0.01	0.06	<0.5	<0.5
W443769		<1	4.0	0.36	119	<0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443770		1	4.0	0.31	115	0.2	0.03	<0.005	0.007	0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443771		<1	4.0	0.29	124	0.3	0.11	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443772		<1	4.2	0.31	124	0.1	0.04	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443773		<1	4.2	0.31	123	0.2	0.05	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W443774		2	4.1	0.30	124	<0.1	0.02	<0.005	<0.005	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W443775		<1	4.6	0.33	127	0.2	0.04	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443776		<1	4.1	0.37	116	0.5	0.03	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443777		<1	4.3	0.29	116	0.2	0.04	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443778		<1	4.4	0.33	111	0.3	0.03	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443779		<1	4.2	0.33	116	0.8	0.07	<0.005	0.007	<0.001	<0.05	<0.2	0.02	0.13	<0.5	<0.5
W443780		5	13.9	1.32	102	3.7	0.69	0.006	0.058	0.004	0.30	4.5	0.41	0.09	2.0	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: 9-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014785

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
W443743		2	2	40	<1	2	6	<1	38	0.001	<0.005	<0.001	0.005
W443744		62	222	10	1	160	4	34	132	0.004	<0.005	0.022	0.156
W443745		59	216	20	<1	157	4	34	138	0.004	<0.005	0.020	0.161
W443746		50	147	50	2	149	10	33	85	0.034	<0.005	0.020	0.202
W443747		58	224	10	1	140	5	35	135	0.005	<0.005	0.021	0.167
W443748		58	222	20	1	128	3	35	132	0.005	<0.005	0.021	0.188
W443749		54	295	20	1	110	3	35	157	0.007	0.005	0.023	0.177
W443750		63	485	20	2	112	3	35	115	0.009	<0.005	0.022	0.286
W443751		52	160	30	<1	127	<2	40	88	0.006	0.014	0.011	0.258
W443752		56	207	30	1	123	2	43	89	0.001	0.014	0.013	0.349
W443753		55	162	30	<1	106	4	43	84	0.002	0.012	0.010	0.369
W443754		50	152	20	<1	112	3	41	84	0.003	0.009	0.010	0.367
W443755		77	119	30	<1	115	<2	38	83	0.002	0.011	0.012	0.306
W443756		49	105	40	<1	118	<2	38	88	0.002	0.015	0.012	0.221
W443757		12	34	40	<1	13	3	5	12	<0.001	<0.005	0.001	0.159
W443758		7	6	30	1	11	6	4	262	<0.001	<0.005	<0.001	0.022
W443759		8	44	40	1	10	11	4	107	<0.001	<0.005	<0.001	0.197
W443760		16	108	30	1	19	141	3	26	0.002	<0.005	<0.001	1.280
W443761		10	32	40	1	15	5	4	8	<0.001	<0.005	0.001	0.486
W443762		7	12	40	<1	9	23	4	57	<0.001	<0.005	<0.001	0.199
W443763		155	5640	40	3	2150	2	25	77	0.108	0.734	0.358	11.45
W443764		15	36	40	1	21	3	14	30	<0.001	<0.005	<0.001	0.096
W443765		9	14	40	1	11	3	5	79	<0.001	<0.005	<0.001	0.047
W443766		25	51	40	1	34	4	17	53	<0.001	<0.005	0.001	0.154
W443767		8	8	40	1	8	3	4	28	<0.001	<0.005	<0.001	0.008
W443768		8	25	40	1	6	2	4	61	<0.001	<0.005	<0.001	0.008
W443769		8	2	40	<1	8	3	4	25	<0.001	<0.005	0.001	0.005
W443770		7	3	40	1	6	3	4	25	<0.001	<0.005	<0.001	0.006
W443771		6	14	50	<1	5	<2	4	27	<0.001	<0.005	<0.001	0.009
W443772		6	7	40	<1	7	5	3	25	0.005	<0.005	<0.001	0.010
W443773		5	17	40	1	8	4	3	19	0.001	<0.005	<0.001	0.009
W443774		6	3	40	<1	8	3	3	21	<0.001	<0.005	<0.001	0.008
W443775		8	3	50	<1	10	5	4	18	<0.001	<0.005	<0.001	0.010
W443776		9	3	40	<1	10	5	4	24	<0.001	<0.005	<0.001	0.010
W443777		9	20	40	<1	10	4	4	34	<0.001	<0.005	<0.001	0.019
W443778		10	2	50	<1	18	5	4	22	<0.001	<0.005	<0.001	0.015
W443779		20	10	50	1	39	3	4	22	<0.001	<0.005	<0.001	0.025
W443780		111	4480	20	6	4220	21	12	102	0.079	0.293	0.599	4.58

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CERTIFICATE OF ANALYSIS TB18014785

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		