ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18010721

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 16-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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CERTIFICATE OF ANALYSIS TB18010721

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
W443079		1.06	15.85	0.09	0.14	28.0	20.8	0.07	0.01	<0.01	<0.01	0.05	<0.01	0.02	0.10	29.7
W443080		0.04	43.1	9.28	15.35	16.20	11.30	0.62	0.24	0.11	0.69	0.14	0.11	0.01	0.03	3.71
W443081		2.15	72.5	13.65	3.92	2.59	1.43	1.68	1.85	<0.01	0.24	0.23	0.09	0.02	0.04	1.55
W443082		1.70	71.2	15.30	2.55	2.58	1.91	3.84	1.47	<0.01	0.25	0.06	0.07	0.03	0.04	1.14
W443083		2.69	62.5	16.30	5.26	5.90	3.41	3.93	1.05	0.01	0.48	0.13	0.30	0.12	0.06	1.34
W443084		1.96	61.0	16.00	5.20	5.90	3.42	3.90	1.75	0.01	0.47	0.13	0.29	0.11	0.10	1.44
W443085		1.93	60.2	15.75	6.35	5.28	3.67	3.75	2.18	0.01	0.47	0.14	0.29	0.08	0.10	1.49
W443086		1.60	58.8	15.65	8.57	5.67	4.07	4.10	1.77	0.01	0.47	0.15	0.28	0.06	0.07	1.96
W443087		2.78	5.66	0.27	33.9	1.99	0.24	0.03	0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	30.5
W443088		2.85	7.80	0.38	42.8	1.71	0.44	0.09	0.12	<0.01	0.02	0.02	0.01	<0.01	<0.01	30.5
W443089		2.43	18.90	2.30	37.6	5.48	2.70	0.14	0.10	0.01	0.10	0.10	0.22	<0.01	<0.01	22.3
W443090		3.26	31.2	7.59	13.45	23.1	9.44	0.54	0.16	0.08	0.47	0.23	0.66	0.01	<0.01	3.27
W443091		2.58	5.22	0.97	40.5	2.06	0.93	0.05	0.04	0.01	0.05	0.02	0.04	<0.01	<0.01	30.2
W443092		2.99	5.16	0.58	33.5	1.01	0.85	0.04	0.02	<0.01	0.03	0.03	0.01	<0.01	<0.01	31.0
W443093		3.15	13.30	3.70	29.0	0.80	1.55	0.37	0.54	0.01	0.25	0.04	0.01	<0.01	0.01	26.4
W443094		2.98	21.8	4.34	29.8	0.56	1.04	0.23	0.92	<0.01	0.19	0.03	0.04	<0.01	0.02	23.7
W443095		2.88	23.8	3.85	23.9	1.84	2.15	0.43	0.37	<0.01	0.17	0.08	0.04	<0.01	0.01	22.3
W443096		2.88	9.47	1.60	26.6	1.30	1.19	0.15	0.20	<0.01	0.07	0.05	0.02	<0.01	<0.01	28.8
W443097		3.88	4.81	1.06	28.2	1.17	0.83	0.04	0.10	<0.01	0.06	0.04	<0.01	<0.01	<0.01	30.7
W443098		3.45	16.30	3.46	28.0	0.61	0.75	0.26	0.59	0.01	0.19	0.03	0.03	<0.01	0.01	25.9
W443099		0.04	47.0	12.90	20.8	6.37	6.73	2.12	0.60	0.03	1.21	0.19	0.14	0.03	0.02	0.90
W443100		2.39	56.5	11.10	17.30	1.17	2.52	0.85	1.92	0.03	0.62	0.04	0.09	0.01	0.03	7.29
W443101		2.14	23.1	3.80	33.0	0.89	1.42	0.35	0.46	0.01	0.18	0.05	0.04	<0.01	0.01	23.3
W443102		2.89	47.2	9.58	22.5	4.16	3.75	0.99	1.01	0.01	0.55	0.13	0.09	0.01	0.02	10.25
W443103		2.24	70.7	14.90	2.78	3.01	1.90	3.18	1.65	<0.01	0.24	0.05	0.04	0.02	0.04	1.31
W443104		2.17	64.0	13.00	9.54	2.96	1.79	2.31	1.55	<0.01	0.21	0.05	0.03	0.01	0.04	4.37
W443105		2.04	73.0	15.00	2.63	2.39	1.61	4.37	1.31	<0.01	0.24	0.04	0.03	0.02	0.03	1.05
W443106		1.89	71.9	14.70	2.64	2.84	1.67	3.19	1.88	<0.01	0.24	0.04	0.04	0.01	0.04	1.11
W443107		1.73	70.5	14.60	2.98	3.34	1.97	2.25	2.18	<0.01	0.24	0.05	0.04	0.01	0.04	1.65
W443108		1.70	70.4	14.85	3.95	3.08	1.52	3.39	1.37	<0.01	0.24	0.06	0.04	0.02	0.03	1.63
W443109		3.16	3.27	0.57	25.3	1.66	0.85	0.04	0.02	<0.01	0.02	0.06	<0.01	<0.01	<0.01	31.1
W443110		3.19	1.84	0.16	18.85	1.40	0.60	0.03	0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	31.4
W443111		3.57	1.58	0.19	28.7	1.64	0.58	0.03	<0.01	<0.01	0.01	0.03	<0.01	<0.01	<0.01	31.1
W443112		2.79	9.20	1.36	30.3	2.79	1.78	0.06	0.05	<0.01	0.05	0.13	0.01	<0.01	<0.01	27.5
W443113		2.14	47.9	15.00	12.05	9.55	10.00	1.12	1.20	0.04	0.48	0.27	0.04	0.01	0.03	2.94
W443114		3.71	11.25	2.02	36.3	1.17	1.48	0.11	0.13	<0.01	0.15	0.09	0.02	<0.01	<0.01	26.7
W443115		2.11	39.6	10.60	27.5	6.51	4.87	0.48	0.43	0.01	1.59	0.35	0.16	0.02	0.01	8.15
W443116		3.27	6.68	0.91	30.1	2.05	0.88	0.05	0.04	<0.01	0.09	0.05	0.01	<0.01	<0.01	29.3
W443117		2.27	52.5	12.80	12.45	5.30	3.89	2.21	1.28	0.01	0.57	0.16	0.07	0.02	0.05	3.47
W443118		2.32	4.46	0.53	28.1	1.70	0.81	0.03	0.02	<0.01	0.04	0.03	<0.01	<0.01	<0.01	29.9

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Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443079		94.83	9.62	0.04	807	1.2	<10	0.57	0.05	0.06	<0.03	0.3	0.08	<5	<0.2	0.02
W443080		100.89	0.24	2.74	291	19.8	820	0.43	2.58	1.54	0.75	10.5	2.70	<5	2.1	0.49
W443081		99.79	0.02	0.43	434	43.3	20	3.01	0.97	0.56	0.66	19.1	1.47	<5	3.5	0.18
W443082		100.44	0.04	0.05	332	22.9	20	2.49	0.76	0.37	0.48	18.1	1.37	<5	3.1	0.13
W443083		100.79	0.04	0.28	573	126.5	70	2.74	2.44	1.03	2.00	20.8	5.12	<5	5.3	0.45
W443084		99.72	0.05	0.29	858	111.5	60	1.28	2.23	0.90	1.89	18.2	4.55	<5	4.4	0.35
W443085		99.76	0.02	0.31	829	107.0	60	0.66	2.05	0.81	1.87	16.5	4.16	<5	4.4	0.36
W443086		101.63	0.08	0.83	652	113.5	60	0.68	2.46	1.11	1.90	17.6	4.68	<5	4.6	0.43
W443087		72.63	0.40	48.8	3.3	3.0	10	0.06	0.28	0.20	0.04	0.6	0.36	<5	<0.2	0.06
W443088		83.89	0.23	47.0	2.8	14.6	10	0.10	2.20	1.20	0.16	0.7	2.34	<5	<0.2	0.48
W443089		89.95	0.50	34.4	21.1	35.7	70	0.16	2.46	1.18	0.81	4.3	3.70	<5	0.7	0.44
W443090		90.20	2.76	3.19	20.7	146.5	550	0.62	5.21	1.98	2.35	9.9	10.35	<5	3.0	0.86
W443091		80.09	0.34	49.0	9.4	10.3	30	0.16	0.42	0.16	0.19	1.6	0.75	<5	0.3	0.07
W443092		72.23	0.10	49.7	4.8	1.8	<10	0.07	0.16	0.06	0.06	1.1	0.15	<5	<0.2	0.02
W443093		75.98	0.03	42.0	82.3	5.2	20	1.39	0.82	0.52	0.17	5.1	0.68	<5	0.7	0.19
W443094		82.67	0.03	37.0	133.0	12.1	10	1.11	1.16	0.72	0.22	6.4	1.17	<5	1.3	0.22
W443095		78.94	0.01	34.6	104.5	17.7	10	0.62	1.38	0.85	0.54	6.2	1.65	<5	1.4	0.28
W443096		69.45	0.05	45.7	41.9	5.8	10	0.35	0.45	0.26	0.14	2.6	0.50	<5	0.6	0.08
W443097		67.01	0.11	49.2	21.7	2.8	<10	0.27	0.39	0.19	0.12	1.6	0.35	<5	0.2	0.05
W443098		76.14	0.04	40.5	92.3	15.0	20	0.74	1.25	0.73	0.34	5.9	1.40	<5	1.5	0.25
W443099		99.04	0.08	1.95	217	27.2	250	0.96	2.68	1.53	1.16	16.5	3.14	<5	2.5	0.54
W443100		99.47	0.16	9.79	233	48.4	200	1.91	3.69	2.16	0.91	19.1	4.02	<5	4.8	0.72
W443101		86.61	0.03	36.9	77.0	17.5	40	0.58	1.22	0.68	0.33	6.1	1.38	<5	1.5	0.24
W443102		100.25	0.02	13.60	190.5	38.8	90	2.08	4.23	2.63	1.04	15.2	4.16	<5	4.2	0.85
W443103		99.82	0.03	0.07	343	20.7	20	2.41	0.79	0.42	0.47	19.7	1.25	<5	3.1	0.15
W443104		99.86	0.04	5.08	306	17.8	20	2.46	0.86	0.37	0.57	17.1	1.31	<5	2.3	0.14
W443105		101.72	0.02	0.07	270	19.1	10	1.89	0.76	0.37	0.41	18.1	1.10	<5	2.9	0.11
W443106		100.30	0.01	0.07	378	19.2	20	2.96	0.85	0.35	0.43	19.2	1.26	<5	2.7	0.15
W443107		99.85	0.03	0.04	395	24.1	20	2.58	0.96	0.34	0.53	20.3	1.47	<5	3.3	0.16
W443108		100.58	0.02	0.77	302	18.4	20	2.65	0.82	0.36	0.37	19.8	1.13	<5	2.9	0.13
W443109		62.89	0.16	>50	3.2	1.5	<10	0.10	0.23	0.13	0.05	1.0	0.17	<5	<0.2	0.04
W443110		54.32	0.19	>50	1.0	0.5	<10	0.01	0.07	0.04	<0.03	0.3	0.05	<5	<0.2	0.01
W443111		63.86	0.24	>50	0.8	0.5	<10	0.01	0.10	0.04	<0.03	0.3	0.07	<5	<0.2	0.01
W443112		73.23	0.11	44.1	9.8	2.6	10	0.20	0.37	0.24	0.10	1.6	0.32	<5	0.2	0.07
W443113		100.63	0.08	0.77	246	5.1	300	2.51	2.00	1.28	0.46	13.9	1.68	<5	0.8	0.44
W443114		79.42	0.04	42.9	18.2	5.3	20	0.58	0.85	0.59	0.21	3.0	0.77	<5	0.7	0.17
W443115		100.28	0.03	11.70	78.2	13.3	40	1.41	4.56	2.96	0.97	16.6	3.90	<5	2.5	1.00
W443116		70.16	0.20	46.6	10.5	2.2	10	0.24	0.46	0.26	0.21	1.5	0.41	<5	0.2	0.09
W443117		94.78	0.06	3.42	422	35.2	80	1.44	2.20	1.14	0.84	18.3	3.14	<5	3.6	0.39
W443118		65.62	0.14	48.7	3.7	2.0	<10	0.10	0.35	0.22	0.09	0.9	0.27	<5	<0.2	0.06

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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
W443079		0.9	0.01	<0.2	0.4	0.11	1.0	0.08	<1	171.0	<0.1	<0.01	0.10	0.01	0.26	5
W443080		9.6	0.20	6.4	10.5	2.49	4.8	2.50	2	65.5	0.4	0.44	2.04	0.22	1.00	191
W443081		23.9	0.07	3.9	14.3	4.47	54.6	1.96	<1	159.0	0.3	0.19	4.60	0.07	1.06	34
W443082		12.3	0.05	2.7	9.2	2.55	38.1	1.75	1	204	0.2	0.16	2.34	0.05	0.74	31
W443083		61.3	0.14	8.9	55.4	15.10	31.9	9.03	1	1055	0.5	0.56	11.85	0.14	3.24	82
W443084		53.5	0.12	7.8	48.4	13.15	34.7	7.58	1	845	0.5	0.50	10.45	0.11	2.72	71
W443085		51.5	0.12	7.5	46.2	12.60	41.0	7.27	1	615	0.4	0.50	9.81	0.11	2.60	68
W443086		54.5	0.14	7.7	48.4	13.20	36.0	7.78	1	535	0.5	0.54	10.75	0.16	2.83	72
W443087		1.3	0.02	0.2	1.7	0.39	0.2	0.40	<1	2.7	<0.1	0.06	0.07	0.03	<0.05	<5
W443088		5.8	0.13	0.2	8.4	1.96	3.4	2.20	<1	5.3	<0.1	0.37	0.11	0.16	<0.05	6
W443089		13.8	0.13	3.0	20.9	4.99	2.0	4.45	1	32.3	0.1	0.45	15.35	0.14	0.83	31
W443090		61.9	0.21	10.6	79.6	19.75	2.0	14.75	1	116.0	0.4	1.09	11.00	0.25	1.44	137
W443091		4.4	0.02	0.9	5.4	1.32	2.3	1.06	<1	8.1	<0.1	0.07	0.63	0.01	0.14	13
W443092		0.9	0.01	0.2	1.0	0.22	0.6	0.23	<1	2.3	<0.1	0.02	0.14	0.01	0.05	5
W443093		2.4	0.07	1.1	2.8	0.66	16.4	0.68	1	22.5	0.1	0.11	0.33	0.07	0.18	58
W443094		5.5	0.09	2.2	5.6	1.48	22.4	1.21	<1	18.7	0.1	0.18	1.09	0.10	0.33	33
W443095		7.8	0.10	2.5	9.2	2.33	10.5	1.87	1	35.5	0.1	0.23	1.05	0.11	0.30	29
W443096		2.8	0.03	0.9	2.9	0.70	3.7	0.56	1	16.9	<0.1	0.06	0.37	0.03	0.13	10
W443097		1.3	0.02	0.4	1.5	0.36	3.3	0.35	<1	10.5	<0.1	0.05	0.15	0.03	<0.05	14
W443098		6.8	0.10	2.8	7.1	1.83	23.7	1.41	<1	23.9	0.2	0.19	1.19	0.11	0.34	29
W443099		12.4	0.19	7.4	14.2	3.41	16.0	2.95	4	254	0.4	0.44	1.59	0.20	0.48	127
W443100		22.2	0.32	9.8	22.7	5.96	82.2	4.61	1	53.4	0.6	0.62	3.29	0.32	0.96	85
W443101		7.8	0.10	3.1	8.4	2.16	17.0	1.62	1	25.0	0.2	0.20	1.47	0.09	0.39	24
W443102		17.6	0.34	8.6	19.7	4.87	29.1	4.40	2	79.2	0.5	0.68	2.44	0.33	0.67	61
W443103		11.2	0.04	2.8	8.4	2.24	44.9	1.70	<1	155.5	0.2	0.16	2.02	0.04	0.68	29
W443104		9.4	0.04	2.3	7.5	2.07	38.9	1.58	1	123.0	0.2	0.15	1.71	0.04	0.57	26
W443105		10.2	0.03	2.6	7.7	2.07	34.4	1.45	<1	171.5	0.2	0.14	1.86	0.05	0.66	27
W443106		10.1	0.04	2.5	7.6	2.16	53.4	1.59	<1	151.5	0.2	0.14	2.01	0.04	0.63	28
W443107		13.0	0.05	2.7	9.7	2.59	76.7	1.86	<1	131.5	0.2	0.18	2.12	0.05	0.67	31
W443108		9.8	0.04	2.6	7.3	2.04	38.8	1.37	1	173.0	0.2	0.14	2.00	0.04	0.65	28
W443109		0.7	0.01	0.3	0.8	0.17	0.5	0.17	<1	3.9	<0.1	0.03	0.11	0.01	<0.05	7
W443110		0.2	0.01	<0.2	0.3	0.07	<0.2	0.09	<1	1.4	<0.1	0.01	<0.05	<0.01	<0.05	<5
W443111		0.2	<0.01	<0.2	0.3	0.07	<0.2	0.06	<1	1.5	<0.1	<0.01	<0.05	0.01	<0.05	5
W443112		1.3	0.02	0.3	1.4	0.31	1.4	0.28	<1	13.6	<0.1	0.05	0.18	0.03	0.06	15
W443113		2.1	0.17	1.3	3.7	0.75	41.9	1.16	<1	118.5	0.1	0.29	0.18	0.17	0.05	220
W443114		2.4	0.08	1.3	2.9	0.70	4.1	0.78	<1	11.0	0.1	0.13	0.50	0.08	0.26	39
W443115		5.3	0.43	4.4	9.8	2.04	13.8	2.94	1	144.5	0.2	0.69	0.43	0.41	0.12	356
W443116		1.0	0.03	0.4	1.3	0.30	1.5	0.31	<1	12.7	<0.1	0.07	0.15	0.03	0.07	28
W443117		16.8	0.16	6.4	16.5	4.22	41.1	3.33	1	148.5	0.4	0.40	3.80	0.17	1.09	154
W443118		0.9	0.03	0.3	1.1	0.23	0.4	0.27	<1	7.1	<0.1	0.05	0.14	0.03	<0.05	15

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

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443079		2	0.6	0.05	3	0.7	0.05	0.007	0.007	<0.001	0.10	0.3	<0.01	0.09	<0.5	<0.5
W443080		1	14.4	1.31	77	40.9	0.29	0.112	0.060	0.015	1.20	11.8	1.19	0.06	2.7	1.1
W443081		1	5.5	0.51	135	1.0	0.05	0.005	0.010	<0.001	0.13	0.2	0.01	0.31	<0.5	<0.5
W443082		1	4.0	0.33	117	0.5	0.02	<0.005	0.010	<0.001	0.11	0.3	<0.01	0.27	<0.5	<0.5
W443083		2	12.1	0.83	195	2.1	0.09	0.011	0.018	<0.001	0.57	0.4	0.01	0.36	<0.5	<0.5
W443084		1	10.6	0.79	170	2.5	0.12	0.009	0.016	<0.001	0.49	0.5	0.02	0.17	<0.5	<0.5
W443085		2	10.4	0.69	160	4.8	0.15	0.016	0.019	<0.001	0.41	0.4	0.01	0.06	<0.5	<0.5
W443086		1	13.0	0.93	172	5.9	0.11	0.036	0.028	<0.001	0.46	0.5	0.02	0.08	<0.5	0.6
W443087		<1	1.9	0.17	3	131.5	1.16	0.136	0.057	0.001	11.05	3.1	0.90	0.16	1.2	<0.5
W443088		<1	13.7	0.87	3	128.0	1.22	0.235	0.154	0.001	16.00	3.7	1.39	0.43	1.5	1.7
W443089		1	12.2	0.88	33	86.3	2.74	0.037	0.041	0.001	2.95	4.9	0.99	0.28	0.8	0.6
W443090		3	23.3	1.44	144	14.5	0.21	0.018	0.045	0.001	1.00	0.7	0.11	0.35	0.6	0.7
W443091		1	2.2	0.19	14	101.5	1.04	0.032	0.019	0.001	2.88	2.9	0.41	0.13	0.6	<0.5
W443092		1	0.9	0.07	8	109.5	0.30	0.047	0.029	0.001	1.82	2.7	0.14	0.06	0.5	<0.5
W443093		1	4.6	0.48	28	86.9	0.29	0.022	0.039	0.002	1.06	4.4	0.18	0.57	<0.5	<0.5
W443094		1	6.1	0.65	58	62.6	0.45	0.031	0.034	0.001	1.35	4.3	0.22	0.27	<0.5	<0.5
W443095		1	7.7	0.73	60	67.6	4.97	0.036	0.041	0.002	1.26	4.6	0.36	0.24	0.5	0.8
W443096		1	2.5	0.25	25	64.1	1.43	0.021	0.012	0.002	1.41	3.1	0.18	0.20	<0.5	<0.5
W443097		1	1.9	0.18	11	70.9	0.13	0.023	0.024	0.001	0.77	4.1	0.21	0.16	<0.5	<0.5
W443098		1	6.7	0.66	59	64.1	0.30	0.070	0.088	0.001	1.32	4.8	0.35	0.28	<0.5	<0.5
W443099		3	13.1	1.24	105	4.3	0.93	0.013	0.065	0.004	0.42	5.3	0.58	0.10	2.4	1.6
W443100		2	18.7	1.96	186	14.5	0.17	0.631	0.745	0.007	0.65	5.5	0.71	0.68	0.5	6.5
W443101		1	6.6	0.64	58	68.2	0.20	0.074	0.100	0.003	0.94	3.6	0.34	0.12	<0.5	0.8
W443102		1	22.3	2.15	164	29.4	0.38	0.029	0.041	0.002	1.02	2.5	0.51	0.51	<0.5	1.1
W443103		1	4.0	0.27	120	0.6	0.03	<0.005	0.010	0.001	0.08	<0.2	<0.01	0.22	<0.5	<0.5
W443104		2	3.9	0.29	92	5.7	0.32	0.021	0.012	0.001	0.21	0.8	0.07	0.40	<0.5	0.5
W443105		1	3.4	0.32	118	0.4	0.01	<0.005	0.008	<0.001	0.07	<0.2	<0.01	0.18	<0.5	<0.5
W443106		1	3.6	0.26	110	0.3	0.01	0.005	0.011	<0.001	0.07	<0.2	<0.01	0.25	<0.5	<0.5
W443107		1	4.4	0.26	131	0.4	0.01	<0.005	0.007	<0.001	0.08	<0.2	<0.01	0.17	<0.5	<0.5
W443108		1	3.6	0.33	116	2.6	0.06	0.019	0.010	<0.001	0.09	0.2	0.02	0.20	<0.5	<0.5
W443109		<1	1.3	0.14	6	88.1	0.33	0.010	0.012	0.002	0.60	2.3	0.26	0.08	<0.5	<0.5
W443110		1	0.5	0.04	2	106.5	0.22	0.007	0.014	0.001	0.56	3.3	0.30	0.09	<0.5	<0.5
W443111		1	0.6	0.07	2	106.0	0.21	0.013	0.012	0.002	0.59	3.1	0.23	0.06	<0.5	<0.5
W443112		<1	2.3	0.21	11	88.0	0.34	0.008	0.019	0.002	1.27	3.3	0.45	0.14	<0.5	0.7
W443113		1	11.3	1.21	30	2.8	0.04	0.015	0.013	0.001	0.45	0.3	0.09	0.38	<0.5	0.7
W443114		1	5.3	0.51	27	89.6	0.38	0.008	0.015	0.003	1.48	1.9	0.41	0.32	<0.5	<0.5
W443115		1	24.9	2.70	91	28.5	0.14	0.010	0.022	0.002	0.94	2.7	0.28	0.21	<0.5	1.3
W443116		1	2.6	0.23	10	79.6	0.26	<0.005	0.009	0.003	0.84	2.0	0.20	0.15	<0.5	0.6
W443117		1	10.7	0.99	138	8.6	0.06	0.011	0.016	0.001	0.39	0.4	0.07	0.12	<0.5	0.5
W443118		<1	2.1	0.20	6	90.6	0.64	0.008	0.010	0.003	0.76	3.0	0.32	0.13	<0.5	<0.5

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443079		<1	1	20	<1	<1	8	<1	73	<0.001	<0.005	0.001	0.003
W443080		150	5360	40	2	2100	8	24	80	0.116	0.679	0.352	10.40
W443081		7	16	30	1	23	7	3	70	<0.001	<0.005	<0.001	0.035
W443082		5	8	30	<1	7	5	3	28	<0.001	<0.005	0.001	0.013
W443083		17	17	20	<1	60	12	7	72	<0.001	<0.005	0.001	0.087
W443084		16	14	20	<1	68	10	6	87	0.001	<0.005	0.001	0.087
W443085		15	9	30	<1	61	6	6	101	<0.001	<0.005	0.001	0.084
W443086		13	18	40	<1	67	13	6	317	<0.001	<0.005	0.003	0.136
W443087		71	28	<10	3	49	34	<1	260	0.156	<0.005	0.006	0.005
W443088		72	22	<10	3	47	46	<1	771	0.190	<0.005	0.003	0.006
W443089		73	50	30	1	75	20	4	90	0.050	<0.005	0.004	0.015
W443090		34	23	40	1	260	7	23	297	0.003	0.006	0.008	0.290
W443091		68	18	10	3	56	12	1	49	0.063	<0.005	0.003	0.004
W443092		72	35	10	2	36	13	<1	62	0.019	<0.005	<0.001	0.005
W443093		56	39	20	1	37	17	7	106	0.009	<0.005	0.002	0.009
W443094		46	70	30	1	44	17	4	75	0.009	<0.005	0.002	0.019
W443095		49	93	30	5	63	18	4	105	0.018	<0.005	<0.001	0.017
W443096		59	57	20	1	33	23	1	43	0.032	<0.005	0.004	0.011
W443097		58	59	10	<1	32	11	2	106	0.018	<0.005	0.001	0.007
W443098		42	82	20	2	55	17	3	316	0.020	<0.005	0.003	0.011
W443099		117	4660	20	3	4580	24	13	108	0.071	0.308	0.592	5.06
W443100		38	235	60	3	150	13	13	3110	0.009	<0.005	0.002	0.061
W443101		39	86	30	1	59	10	4	359	0.012	<0.005	0.002	0.005
W443102		28	164	50	2	72	69	12	271	0.007	<0.005	0.001	0.015
W443103		6	5	40	<1	8	4	4	25	<0.001	<0.005	0.001	0.019
W443104		12	64	30	3	13	<2	4	240	0.001	<0.005	0.001	0.792
W443105		5	2	30	1	7	<2	4	23	<0.001	<0.005	<0.001	0.007
W443106		6	2	20	<1	6	2	3	26	<0.001	<0.005	<0.001	0.010
W443107		5	2	40	<1	8	<2	4	24	0.013	<0.005	<0.001	0.009
W443108		5	17	30	1	6	16	4	225	<0.001	<0.005	<0.001	0.118
W443109		61	130	10	7	36	<2	1	11	0.028	<0.005	<0.001	0.004
W443110		89	160	<10	27	42	<2	<1	11	0.012	<0.005	0.002	0.003
W443111		68	127	<10	2	41	<2	<1	12	0.016	<0.005	0.001	0.003
W443112		68	168	10	3	47	<2	2	27	0.017	<0.005	0.001	0.004
W443113		46	74	60	<1	96	10	35	266	<0.001	0.012	0.013	0.269
W443114		71	218	10	4	80	6	4	26	0.012	<0.005	0.002	<0.003
W443115		42	166	40	1	61	25	34	148	0.004	<0.005	<0.001	0.042
W443116		65	120	<10	2	52	2	2	11	0.016	<0.005	0.001	0.003
W443117		30	59	40	1	54	6	21	122	0.002	<0.005	0.001	0.499
W443118		86	170	<10	3	68	<2	1	7	0.017	<0.005	0.002	<0.003

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443119		0.99	15.30	0.06	0.27	26.6	19.70	0.02	0.02	<0.01	0.01	0.05	<0.01	0.02	0.02	24.3
W443120		2.21	48.5	13.60	17.80	6.72	6.50	0.73	0.66	0.01	2.04	0.29	0.21	0.01	0.01	2.56
W443121		2.67	47.9	12.60	19.40	8.56	5.23	1.11	0.46	0.01	1.88	0.33	0.19	0.02	0.01	1.91
W443122		2.48	48.2	12.90	19.50	8.01	5.37	1.38	0.38	0.01	1.89	0.36	0.20	0.01	0.01	1.78
W443123		3.20	48.7	13.05	17.65	8.76	5.72	1.59	0.41	0.01	1.62	0.32	0.16	0.01	0.01	1.33
W443124		3.01	49.0	12.90	18.95	8.34	5.44	1.27	0.51	0.01	1.91	0.30	0.19	0.01	0.01	2.13
W443125		3.44	22.4	0.36	33.4	0.48	0.30	0.01	0.03	<0.01	0.02	0.03	0.02	<0.01	<0.01	24.6
W443126		4.01	11.50	0.23	36.0	0.45	0.17	0.01	0.03	<0.01	0.01	0.02	0.01	<0.01	<0.01	29.3
W443127		3.96	5.95	1.00	36.8	0.63	0.69	0.03	0.04	<0.01	0.05	0.07	0.02	<0.01	<0.01	30.2
W443128		1.34	47.8	16.20	15.00	8.34	7.02	1.17	1.01	0.03	1.03	0.39	0.09	0.02	0.03	3.07
W443129		3.19	19.95	3.58	35.6	7.94	4.95	0.11	0.21	0.04	0.21	0.12	0.02	<0.01	0.01	18.35
W443130		3.04	27.9	6.58	39.0	2.74	3.00	0.24	0.50	0.01	0.39	0.10	0.05	<0.01	0.02	18.60
W443131		3.15	26.2	5.20	40.5	0.58	1.78	0.20	0.69	<0.01	0.24	0.03	0.06	<0.01	0.01	21.3
W443132		2.45	29.2	5.13	35.9	1.27	2.10	0.26	0.49	0.02	0.37	0.06	0.06	<0.01	0.01	19.75
W443133		2.82	22.1	3.28	35.3	3.04	2.37	0.11	0.05	0.01	0.16	0.10	0.03	<0.01	<0.01	21.7
W443134		3.04	50.9	15.80	11.60	10.45	5.05	1.78	0.93	0.04	0.89	0.23	0.07	0.01	0.04	1.69
W443135		2.94	50.4	15.40	11.60	10.60	5.49	2.50	0.59	0.04	0.88	0.22	0.07	0.01	0.02	1.17
W443136		2.60	52.0	15.70	11.25	11.45	5.30	2.64	0.73	0.04	0.88	0.22	0.07	0.02	0.02	1.26
W443137		2.57	49.7	14.75	12.60	12.10	6.92	2.18	0.60	0.04	0.82	0.22	0.06	0.02	0.02	1.07
W443138		2.66	48.2	14.35	12.10	11.75	6.92	2.09	0.56	0.04	0.79	0.20	0.05	0.02	0.01	1.23
W443139		0.04	42.2	9.01	15.20	15.90	11.00	0.59	0.21	0.10	0.68	0.14	0.13	0.01	0.03	3.76
W443140		2.43	50.8	15.70	11.65	11.90	5.48	2.66	0.66	0.04	0.89	0.23	0.06	0.02	0.02	1.21
W443141		2.62	52.2	15.35	11.25	11.65	5.24	2.19	0.73	0.04	0.86	0.26	0.07	0.02	0.02	1.26
W443142		2.62	49.4	15.00	12.40	11.60	5.82	1.57	1.00	0.04	0.84	0.30	0.06	0.01	0.02	1.31
W443143		2.31	47.0	15.00	12.70	11.50	7.79	1.69	0.81	0.04	0.84	0.23	0.07	0.01	0.02	1.44
W443144		2.51	49.3	14.30	11.65	10.40	8.21	1.71	0.99	0.04	0.77	0.23	0.06	0.01	0.03	1.90
W443145		2.45	46.5	14.25	12.05	13.00	7.58	1.40	0.85	0.04	0.77	0.23	0.06	0.02	0.02	2.04
W443146		2.38	49.4	14.55	12.35	10.70	7.68	2.31	0.75	0.04	0.82	0.20	0.07	0.01	0.02	1.27
W443147		2.54	49.6	14.75	12.20	10.85	7.46	2.33	0.67	0.04	0.83	0.21	0.06	0.01	0.01	1.13
W443148		2.33	49.6	14.70	12.50	11.50	7.67	2.06	0.84	0.04	0.83	0.21	0.06	0.01	0.02	1.11
W443149		2.40	49.9	14.70	12.50	11.85	7.51	2.18	0.56	0.04	0.82	0.20	0.07	0.01	0.01	1.12
W443150		2.57	49.3	14.75	13.70	11.35	7.23	2.05	0.56	0.03	0.89	0.22	0.08	0.01	0.01	0.86
W443151		2.62	49.2	14.80	14.70	10.35	6.46	2.13	0.44	0.03	0.97	0.22	0.08	0.01	0.01	1.11
W443152		2.33	48.8	14.60	13.45	10.50	7.66	1.91	0.34	0.03	0.88	0.21	0.07	0.01	0.01	1.13
W443153		2.36	48.9	14.80	12.35	10.80	7.87	2.03	0.47	0.04	0.82	0.20	0.06	0.01	0.01	1.07
W443154		2.49	49.4	15.35	12.35	10.70	7.91	2.16	0.48	0.04	0.86	0.20	0.07	0.01	0.01	1.23
W443155		2.44	48.7	14.40	12.50	10.75	8.19	2.24	0.45	0.04	0.82	0.21	0.07	0.01	0.01	1.08
W443156		0.04	46.5	12.55	20.7	6.10	6.73	2.12	0.68	0.03	1.18	0.19	0.16	0.03	0.02	1.02

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

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443119		86.37	10.30	0.23	191.5	4.0	<10	0.46	0.10	0.05	0.06	0.1	0.18	<5	<0.2	0.01
W443120		99.64	0.03	0.88	121.0	17.9	60	2.13	6.02	3.83	1.26	20.6	5.24	<5	3.1	1.31
W443121		99.61	0.05	1.24	104.0	17.8	50	1.31	5.89	3.74	1.26	21.1	4.97	<5	3.0	1.31
W443122		100.00	0.04	1.12	103.0	18.3	50	0.94	6.24	3.87	1.48	21.9	5.41	<5	3.0	1.34
W443123		99.34	0.04	0.52	109.0	17.7	70	0.74	5.80	3.53	1.37	19.4	4.99	<5	2.8	1.24
W443124		100.97	0.03	2.01	104.0	20.9	50	1.34	5.99	3.87	1.56	19.5	5.39	<5	3.1	1.33
W443125		81.65	0.02	40.3	4.0	1.0	10	0.13	0.15	0.09	0.06	0.6	0.14	<5	<0.2	0.03
W443126		77.73	0.07	47.7	2.8	1.2	10	0.10	0.14	0.07	0.03	0.4	0.12	<5	<0.2	0.02
W443127		75.48	0.03	48.6	9.9	2.1	10	0.47	0.32	0.18	0.08	1.3	0.35	<5	0.2	0.08
W443128		101.20	0.02	1.61	272	13.2	210	2.82	4.01	2.64	0.95	17.9	3.49	<5	2.0	0.88
W443129		91.09	0.89	30.7	62.0	3.5	270	0.55	0.69	0.50	0.22	4.5	0.59	<5	0.5	0.16
W443130		99.13	0.02	28.4	136.5	12.4	40	1.47	1.66	1.11	0.44	8.3	1.63	<5	1.4	0.37
W443131		96.79	0.02	33.2	123.0	20.1	20	1.69	2.02	1.13	0.58	7.9	1.96	<5	2.1	0.39
W443132		94.62	0.02	30.4	110.0	21.0	90	1.06	1.84	1.05	0.59	8.3	1.86	<5	2.1	0.39
W443133		88.25	0.03	34.1	12.7	9.8	20	0.22	1.11	0.75	0.38	5.0	1.20	<5	1.2	0.23
W443134		99.48	0.03	0.62	347	8.2	270	0.90	3.48	2.32	0.81	16.2	2.77	<5	1.6	0.76
W443135		98.99	0.07	0.30	188.0	9.0	260	0.52	3.47	2.36	0.88	16.6	2.81	<5	1.5	0.78
W443136		101.58	0.06	0.32	147.5	6.6	220	0.41	2.63	1.87	0.69	12.5	2.18	<5	1.2	0.58
W443137		101.10	0.04	0.18	157.5	8.4	280	1.03	3.44	2.34	0.83	16.2	2.94	<5	1.5	0.79
W443138		98.31	0.05	0.15	132.0	7.9	270	1.65	3.41	2.27	0.83	15.4	2.73	<5	1.4	0.74
W443139		98.96	0.24	2.64	292	20.8	760	0.41	2.67	1.50	0.79	10.3	2.75	<5	2.0	0.55
W443140		101.32	0.08	0.20	139.0	7.8	260	0.39	3.28	2.05	0.79	15.6	2.66	<5	1.3	0.73
W443141		101.14	0.05	0.21	128.5	7.0	240	0.66	2.85	1.94	0.74	14.1	2.39	<5	1.3	0.67
W443142		99.37	0.07	0.26	185.5	7.7	260	0.93	3.29	2.12	0.81	15.6	2.56	<5	1.5	0.72
W443143		99.14	0.04	0.16	213	7.8	270	1.78	3.38	2.32	0.79	15.9	2.91	<5	1.4	0.75
W443144		99.60	0.03	0.12	261	6.9	250	1.64	2.96	2.04	0.69	14.5	2.55	<5	1.3	0.67
W443145		98.81	0.19	0.07	205	9.8	260	1.42	3.15	2.01	0.80	15.0	2.83	<5	1.3	0.67
W443146		100.17	0.04	0.04	175.0	8.0	270	3.29	3.30	2.15	0.79	15.9	2.88	<5	1.4	0.75
W443147		100.15	0.03	0.10	127.5	8.4	280	1.09	3.50	2.33	0.83	16.1	2.94	<5	1.5	0.79
W443148		101.15	0.04	0.05	146.5	7.7	270	0.49	3.24	2.05	0.76	15.7	2.84	<5	1.4	0.73
W443149		101.47	0.06	0.09	82.6	7.4	250	0.37	3.22	2.16	0.79	15.3	2.47	<5	1.3	0.70
W443150		101.04	0.03	0.13	85.2	9.5	230	0.39	3.50	2.37	0.87	15.9	2.95	<5	1.5	0.78
W443151		100.51	0.04	0.35	65.2	11.7	190	0.36	3.85	2.54	0.88	16.0	3.35	<5	1.9	0.84
W443152		99.60	0.02	0.21	41.2	6.7	170	0.32	2.63	1.63	0.56	11.6	2.15	<5	1.2	0.55
W443153		99.43	0.02	0.06	67.8	7.3	250	0.45	3.06	2.14	0.70	14.4	2.64	<5	1.3	0.70
W443154		100.77	0.02	0.08	84.3	7.6	270	0.77	3.23	2.16	0.76	15.2	2.73	<5	1.5	0.70
W443155		99.47	0.06	0.07	79.5	7.0	250	0.53	2.96	2.09	0.70	14.3	2.63	<5	1.3	0.67
W443156		98.01	0.08	1.71	215	27.4	230	0.96	2.54	1.46	1.19	14.9	2.83	<5	2.5	0.52

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443119		1.8	<0.01	3.0	1.8	0.45	0.5	0.33	<1	141.5	<0.1	0.02	0.22	<0.01	0.19	<5
W443120		6.9	0.52	6.1	12.8	2.76	18.9	4.19	<1	123.0	0.3	0.89	0.59	0.52	0.14	447
W443121		6.9	0.54	5.8	12.9	2.68	13.5	3.91	<1	113.5	0.3	0.87	0.56	0.54	0.13	444
W443122		7.2	0.54	5.8	13.7	2.79	11.0	4.11	1	103.0	0.3	0.94	0.60	0.54	0.12	449
W443123		6.9	0.54	4.9	12.7	2.60	12.4	3.68	1	120.5	0.3	0.86	0.56	0.52	0.13	404
W443124		8.3	0.55	5.9	14.7	2.97	15.3	4.53	1	165.5	0.3	0.91	1.21	0.59	0.16	435
W443125		0.5	0.01	0.3	0.6	0.14	0.4	0.10	<1	4.2	<0.1	0.02	0.15	0.01	0.12	7
W443126		0.5	0.01	0.2	0.6	0.15	0.4	0.12	<1	2.5	<0.1	0.01	0.12	0.01	0.08	<5
W443127		0.9	0.04	0.5	1.2	0.28	2.0	0.27	<1	4.7	<0.1	0.05	0.16	0.03	0.07	14
W443128		5.3	0.40	3.5	8.9	1.99	31.6	2.76	1	173.5	0.2	0.60	0.50	0.36	0.13	316
W443129		1.5	0.07	0.8	1.8	0.44	5.2	0.50	<1	26.8	<0.1	0.12	0.20	0.07	0.11	66
W443130		5.7	0.17	2.1	6.4	1.61	18.5	1.48	1	48.8	0.1	0.28	0.89	0.16	0.26	98
W443131		9.3	0.16	3.4	9.5	2.51	28.2	2.03	1	28.7	0.2	0.31	1.44	0.16	0.67	35
W443132		9.3	0.15	4.5	10.0	2.53	19.7	2.12	2	34.0	0.3	0.32	1.56	0.16	0.49	55
W443133		4.4	0.10	1.7	4.9	1.26	1.8	1.01	2	27.5	0.1	0.18	1.00	0.10	0.31	34
W443134		3.1	0.33	2.4	6.7	1.30	25.9	2.24	1	181.0	0.1	0.48	0.25	0.34	0.08	312
W443135		3.3	0.35	2.6	6.9	1.41	18.2	2.14	1	184.5	0.2	0.51	0.27	0.35	0.08	316
W443136		2.5	0.26	1.9	5.2	1.02	19.1	1.66	<1	150.5	0.1	0.42	0.20	0.29	0.05	249
W443137		3.1	0.33	2.3	6.5	1.34	20.3	2.26	<1	211	0.1	0.52	1.26	0.34	0.06	314
W443138		2.9	0.33	2.3	6.3	1.27	19.4	2.18	1	210	0.1	0.51	0.20	0.33	0.05	301
W443139		10.0	0.22	6.2	10.8	2.66	4.9	2.63	2	65.4	0.3	0.43	2.15	0.23	1.00	177
W443140		2.8	0.34	2.2	6.2	1.18	20.2	1.89	<1	178.5	0.1	0.47	0.20	0.32	<0.05	292
W443141		2.5	0.28	2.2	5.6	1.07	19.8	1.75	1	148.0	0.1	0.45	0.30	0.27	<0.05	266
W443142		2.9	0.31	2.7	6.2	1.20	30.8	1.94	<1	156.5	1.1	0.47	0.22	0.30	0.06	296
W443143		2.9	0.33	2.4	6.5	1.24	24.6	2.04	<1	175.0	0.1	0.49	0.20	0.33	0.06	303
W443144		2.6	0.29	2.1	5.5	1.08	31.7	1.81	<1	152.0	0.1	0.45	0.19	0.28	0.07	274
W443145		4.8	0.30	2.2	6.8	1.37	27.4	1.96	<1	162.5	0.1	0.46	0.21	0.29	0.06	282
W443146		3.1	0.33	2.3	6.3	1.27	23.7	1.91	1	166.5	0.1	0.51	0.21	0.32	0.06	302
W443147		3.0	0.34	2.4	6.4	1.27	22.4	2.19	1	172.0	0.1	0.52	0.21	0.34	0.06	319
W443148		2.8	0.32	2.2	6.1	1.21	27.2	1.98	<1	144.5	0.1	0.47	0.23	0.33	0.05	300
W443149		2.7	0.33	2.2	5.9	1.19	17.3	1.97	<1	147.5	0.1	0.46	0.20	0.30	0.05	284
W443150		3.5	0.32	2.6	7.2	1.44	17.8	2.24	<1	140.5	0.1	0.53	0.35	0.37	0.07	299
W443151		4.7	0.34	3.1	8.6	1.66	12.9	2.39	1	133.5	0.2	0.57	0.45	0.37	0.12	297
W443152		2.6	0.25	2.0	4.8	1.00	8.0	1.49	<1	86.3	0.1	0.37	0.24	0.23	0.05	215
W443153		2.8	0.30	2.1	5.7	1.12	14.2	1.77	<1	111.5	0.1	0.48	0.19	0.31	<0.05	284
W443154		2.8	0.34	2.4	6.1	1.21	16.0	1.96	<1	113.5	0.1	0.49	0.22	0.32	0.05	303
W443155		2.6	0.30	2.1	5.5	1.10	13.4	1.78	<1	125.0	0.1	0.46	0.18	0.29	0.05	278
W443156		12.5	0.20	7.0	13.6	3.41	16.4	2.99	4	257	0.4	0.42	1.69	0.20	0.53	122

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443119		1	0.6	0.04	<2	0.7	0.08	0.005	<0.005	<0.001	0.08	0.2	0.02	0.06	<0.5	<0.5
W443120		4	32.6	3.40	115	3.5	0.08	0.006	0.023	0.002	0.55	0.9	0.06	0.25	<0.5	0.9
W443121		1	31.6	3.32	116	2.6	0.09	<0.005	0.024	0.003	0.57	0.6	0.06	0.18	<0.5	1.1
W443122		1	33.3	3.50	117	1.5	0.09	<0.005	0.025	0.002	0.51	0.8	0.03	0.10	<0.5	1.3
W443123		1	32.9	3.39	104	1.9	0.04	0.008	0.023	0.001	0.46	0.6	0.01	0.07	<0.5	1.1
W443124		<1	34.0	3.55	114	4.3	0.04	0.006	0.020	0.003	0.84	0.7	0.04	0.14	<0.5	1.0
W443125		1	0.8	0.10	4	93.0	0.11	0.012	0.013	0.003	0.97	2.1	0.26	0.08	<0.5	<0.5
W443126		<1	0.7	0.07	3	110.0	0.06	0.011	0.010	0.002	0.99	2.2	0.10	0.07	<0.5	<0.5
W443127		<1	2.0	0.24	8	102.0	0.09	0.008	0.012	0.002	1.07	2.6	0.12	0.15	<0.5	<0.5
W443128		1	23.7	2.38	73	9.5	0.03	0.018	0.024	0.001	0.72	0.5	0.06	0.60	<0.5	1.3
W443129		1	4.3	0.48	17	107.0	0.12	0.009	0.018	0.002	1.21	3.6	0.34	0.23	<0.5	1.3
W443130		1	9.8	1.04	52	62.7	0.12	0.015	0.025	0.002	0.92	3.9	0.27	0.28	<0.5	0.9
W443131		1	10.3	1.05	81	55.1	0.16	0.041	0.094	0.003	0.98	4.7	0.44	0.24	<0.5	1.6
W443132		1	9.9	1.01	83	52.6	0.19	0.070	0.104	0.002	1.35	4.5	0.58	0.21	<0.5	1.8
W443133		1	6.5	0.66	44	46.0	0.26	0.016	0.048	0.002	1.05	5.8	0.79	0.17	<0.5	1.0
W443134		1	19.9	2.04	53	0.4	0.04	0.009	0.020	0.001	0.16	0.5	0.06	0.15	<0.5	0.8
W443135		1	20.5	2.22	56	0.2	0.03	0.015	0.015	0.001	0.10	0.4	0.03	0.06	<0.5	0.9
W443136		<1	15.9	1.73	42	0.4	0.04	0.012	0.015	0.001	0.14	0.5	0.03	0.10	<0.5	1.1
W443137		1	20.5	2.07	52	0.3	0.04	0.007	0.009	0.001	0.10	0.5	0.01	0.07	<0.5	0.8
W443138		1	19.4	2.13	51	0.4	0.06	<0.005	0.010	0.001	0.09	0.2	0.01	0.06	<0.5	0.8
W443139		1	14.6	1.44	77	44.7	0.31	0.117	0.054	0.017	1.55	11.2	1.71	0.06	2.4	1.6
W443140		1	19.3	2.02	50	0.5	0.05	<0.005	0.012	0.001	0.15	0.4	0.02	0.07	<0.5	0.8
W443141		1	16.9	1.83	46	0.8	0.05	0.009	0.013	0.001	0.16	0.5	0.02	0.15	<0.5	1.2
W443142		517	19.0	2.13	50	0.5	0.05	0.008	0.013	0.002	0.12	0.5	0.04	0.12	<0.5	0.8
W443143		1	19.7	2.09	52	0.2	0.08	<0.005	0.012	0.001	0.07	0.5	0.05	0.09	<0.5	0.7
W443144		1	17.1	1.82	45	1.3	0.10	<0.005	0.008	0.001	0.09	0.3	0.02	0.08	<0.5	0.8
W443145		1	17.7	1.86	47	0.2	0.03	<0.005	0.012	0.001	0.07	0.3	0.02	0.04	<0.5	0.8
W443146		1	19.2	2.12	51	0.2	0.02	<0.005	0.008	0.001	0.07	0.2	<0.01	0.04	<0.5	0.5
W443147		3	20.6	2.20	54	0.6	0.04	0.007	0.009	0.001	0.05	0.4	0.02	0.05	<0.5	0.9
W443148		1	19.1	1.97	50	0.3	0.01	<0.005	0.006	0.001	0.05	0.2	0.02	0.03	<0.5	0.9
W443149		8	18.6	2.06	49	0.3	0.02	<0.005	0.010	0.001	0.07	0.2	0.02	0.05	<0.5	0.6
W443150		1	20.4	2.12	58	0.3	0.02	<0.005	0.012	0.001	0.05	0.4	0.01	0.03	<0.5	0.8
W443151		1	22.2	2.34	68	0.2	0.02	<0.005	0.012	0.001	0.06	0.9	0.03	0.06	<0.5	0.8
W443152		1	14.6	1.58	42	0.2	0.02	<0.005	0.011	0.001	0.05	0.5	0.02	0.06	<0.5	1.0
W443153		1	18.0	1.98	47	0.7	0.02	<0.005	0.012	0.001	0.05	0.4	0.02	0.04	<0.5	0.9
W443154		2	18.8	2.12	51	0.9	0.02	<0.005	0.012	0.001	0.05	0.2	0.02	0.06	<0.5	0.9
W443155		2	17.7	1.91	46	0.3	0.02	<0.005	0.011	0.001	<0.05	0.2	0.01	0.04	<0.5	0.7
W443156		4	13.5	1.20	95	4.8	0.97	0.011	0.070	0.006	0.30	4.9	0.60	0.09	2.2	1.5

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

ALS Canada Ltd.

2103 Dollarton Hwy
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010721

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
W443119		1	1	10	1	2	7	<1	20	<0.001	<0.005	<0.001	0.008
W443120		35	31	40	<1	45	4	40	176	<0.001	<0.005	<0.001	0.412
W443121		55	81	40	<1	45	8	40	166	<0.001	<0.005	<0.001	0.482
W443122		54	89	40	1	47	3	40	194	<0.001	<0.005	<0.001	0.445
W443123		48	78	30	<1	52	<2	39	168	<0.001	<0.005	<0.001	0.326
W443124		40	58	40	1	48	8	41	152	0.002	<0.005	<0.001	0.495
W443125		48	98	<10	2	52	<2	1	7	0.010	<0.005	0.001	<0.003
W443126		42	37	<10	2	32	<2	<1	7	0.014	<0.005	0.001	0.003
W443127		51	53	10	4	42	<2	2	27	0.007	<0.005	0.001	0.004
W443128		31	28	60	<1	100	15	42	322	0.001	<0.005	0.003	0.365
W443129		46	126	10	2	101	11	10	96	0.017	<0.005	0.002	0.003
W443130		56	111	30	2	55	7	14	120	0.007	<0.005	0.002	0.007
W443131		50	146	30	3	67	5	5	305	0.011	<0.005	0.001	0.004
W443132		43	178	30	3	89	8	7	546	0.012	<0.005	0.001	0.003
W443133		46	281	10	2	52	9	5	157	0.014	<0.005	0.002	0.004
W443134		40	89	30	<1	144	5	43	167	<0.001	<0.005	0.001	0.382
W443135		50	162	20	<1	139	<2	44	192	0.001	<0.005	0.001	0.443
W443136		51	197	10	<1	153	<2	45	236	0.001	<0.005	0.001	0.410
W443137		49	138	20	1	145	<2	40	147	<0.001	<0.005	0.001	0.323
W443138		48	100	20	<1	137	<2	41	93	<0.001	<0.005	0.001	0.204
W443139		156	5740	40	3	2220	5	26	76	0.095	0.673	0.369	11.10
W443140		48	140	20	<1	140	2	42	121	<0.001	<0.005	0.001	0.319
W443141		49	148	20	<1	143	5	42	236	0.001	<0.005	0.001	0.332
W443142		53	127	30	<1	144	2	41	219	<0.001	<0.005	0.001	0.392
W443143		50	207	30	<1	166	2	39	153	0.004	<0.005	0.002	0.302
W443144		60	57	40	<1	175	3	38	91	<0.001	<0.005	0.001	0.170
W443145		49	71	30	<1	173	<2	36	92	<0.001	<0.005	0.001	0.108
W443146		46	69	30	<1	125	3	35	82	<0.001	<0.005	0.001	0.089
W443147		45	133	20	<1	126	<2	37	100	0.001	<0.005	0.001	0.259
W443148		45	31	20	<1	123	3	33	96	<0.001	<0.005	0.001	0.113
W443149		46	109	20	<1	121	<2	38	89	<0.001	<0.005	<0.001	0.199
W443150		48	79	20	<1	117	3	40	104	<0.001	<0.005	0.001	0.222
W443151		53	160	30	<1	111	<2	41	122	<0.001	<0.005	0.003	0.542
W443152		50	166	20	<1	122	4	41	119	<0.001	<0.005	0.001	0.408
W443153		47	94	20	<1	134	<2	40	104	<0.001	<0.005	0.001	0.149
W443154		49	91	20	<1	136	4	42	93	<0.001	<0.005	0.001	0.160
W443155		47	79	20	1	136	5	39	105	<0.001	<0.005	0.001	0.165
W443156		113	4440	20	3	4360	21	12	104	0.052	0.289	0.613	4.29

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

Finalized Date: 7-FEB-2018
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CERTIFICATE OF ANALYSIS TB18010721

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		