ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18010719

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 TB18010719

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
W443157		0.99	25.0	0.13	0.20	24.2	19.65	0.10	0.04	<0.01	0.01	0.05	0.01	0.01	0.02	29.6
W443158		0.04	42.1	9.05	15.15	16.15	10.75	0.64	0.27	0.10	0.69	0.14	0.12	<0.01	0.03	3.81
W443159		2.16	49.5	14.80	12.10	10.70	8.19	2.47	0.33	0.04	0.84	0.20	0.07	0.01	0.01	1.02
W443160		2.41	49.9	15.10	12.15	11.45	8.00	2.34	0.37	0.04	0.86	0.21	0.07	0.01	0.01	1.11
W443161		2.41	49.1	14.45	11.90	11.15	7.72	2.40	0.36	0.04	0.83	0.21	0.06	0.01	0.01	1.07
W443162		2.44	50.1	15.05	12.00	11.80	7.49	2.37	0.35	0.04	0.86	0.20	0.07	0.01	0.01	1.06
W443163		2.36	48.4	14.80	11.85	12.15	6.87	2.08	0.42	0.04	0.84	0.21	0.09	0.01	0.01	1.21
W443164		2.30	49.3	14.85	12.10	13.15	6.43	1.88	0.44	0.04	0.85	0.21	0.06	0.02	0.01	1.03
W443165		2.26	50.2	15.05	11.30	13.20	5.46	1.79	0.35	0.04	0.86	0.22	0.06	0.02	0.01	1.62
W443166		2.53	49.2	14.75	12.20	11.90	6.85	2.15	0.40	0.04	0.81	0.22	0.07	0.02	0.01	1.53
W443167		2.41	49.8	14.90	12.15	11.35	8.57	2.26	0.35	0.05	0.80	0.21	0.05	0.01	0.01	1.44
W443168		2.31	47.3	14.20	11.85	12.40	7.70	2.05	0.40	0.04	0.76	0.20	0.06	0.01	0.01	1.61
W443169		2.55	48.4	14.40	12.25	11.60	7.95	2.15	0.31	0.04	0.77	0.21	0.05	0.01	0.01	1.15
W443170		2.45	48.2	14.55	11.95	11.40	8.18	2.16	0.36	0.04	0.78	0.21	0.05	0.01	0.01	1.42
W443171		2.24	48.9	14.75	11.90	10.95	8.16	2.31	0.34	0.04	0.79	0.21	0.07	0.01	0.01	1.15
W443172		2.51	48.3	15.00	13.90	10.95	6.74	2.08	0.37	0.05	0.81	0.41	0.06	0.01	0.01	1.31
W443173		2.48	50.1	15.65	11.80	12.50	4.69	1.83	0.30	0.05	0.85	0.32	0.06	0.02	0.01	1.46
W443174		2.34	49.1	15.25	12.30	11.95	4.95	2.07	0.32	0.05	0.82	0.31	0.06	0.01	0.01	1.42
W443175		2.51	45.1	13.40	15.85	13.00	5.33	1.75	0.32	0.04	0.72	0.36	0.06	0.01	0.01	1.98
W443176		2.52	47.9	14.45	11.70	11.15	7.87	2.30	0.33	0.04	0.76	0.23	0.07	0.01	0.01	1.22
W443177		0.04	46.9	12.80	20.1	6.20	6.69	2.22	0.64	0.03	1.23	0.19	0.16	0.03	0.02	1.17
W443178		2.32	48.3	14.55	11.80	12.65	6.65	2.13	0.34	0.04	0.78	0.25	0.05	0.01	0.01	1.53
W443179		2.58	48.8	15.40	13.30	10.45	6.07	3.02	0.21	0.05	0.81	0.34	0.07	<0.01	0.01	1.57
W443180		2.56	48.6	15.20	11.95	11.45	5.18	2.84	0.34	0.05	0.81	0.28	0.06	0.01	0.01	1.29
W443181		2.60	50.2	15.50	12.20	9.91	5.69	3.22	0.28	0.05	0.83	0.30	0.06	0.01	0.01	1.27
W443182		2.25	48.5	14.80	12.85	9.72	6.38	3.16	0.30	0.04	0.79	0.27	0.06	0.01	<0.01	1.59
W443183		2.40	49.5	15.75	11.60	10.10	5.38	3.36	0.42	0.05	0.80	0.28	0.06	0.01	0.01	1.29
W443184		2.65	44.6	14.10	15.50	12.00	5.78	2.25	0.29	0.04	0.74	0.26	0.06	0.01	0.01	1.52
W443185		2.51	48.1	14.70	11.80	10.55	5.70	3.50	0.25	0.04	0.84	0.25	0.07	0.01	0.01	1.91
W443186		2.45	48.7	15.20	11.65	10.70	5.31	3.65	0.26	0.04	0.81	0.22	0.06	0.01	0.01	2.49
W443187		2.69	50.3	15.35	11.35	10.90	5.59	3.54	0.23	0.05	0.85	0.23	0.07	0.02	0.01	1.05
W443188		2.71	48.9	13.45	16.00	10.15	5.18	2.84	0.32	0.02	1.31	0.26	0.11	0.01	0.01	0.54
W443189		2.61	47.4	12.80	17.15	10.80	5.07	1.92	0.33	0.01	1.43	0.26	0.12	0.01	0.01	1.47
W443190		2.25	49.9	13.20	16.60	10.65	5.10	2.01	0.42	0.01	1.42	0.25	0.13	0.01	0.01	1.53
W443191		2.56	49.8	12.75	17.45	9.32	5.09	2.24	0.35	0.01	1.51	0.26	0.14	0.01	0.01	0.62
W443192		2.65	47.7	12.55	16.80	9.64	4.90	2.02	0.40	0.01	1.47	0.25	0.13	0.01	0.01	0.85
W443193		2.64	49.9	12.95	17.55	9.82	5.00	2.04	0.45	0.01	1.52	0.26	0.13	0.01	0.01	0.85
W443194		2.51	50.5	13.25	17.70	9.54	5.04	2.21	0.41	0.01	1.55	0.26	0.14	0.01	0.01	0.71
W443195		2.54	50.1	14.10	14.65	9.79	4.55	3.11	0.40	0.02	1.23	0.24	0.10	0.01	0.01	1.43
W443196		2.35	50.1	15.95	11.35	10.35	4.25	4.01	0.44	0.04	0.90	0.24	0.09	0.03	0.01	1.90

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Finalized Date: 7-FEB-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18010719

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
W443157		99.02	8.12	0.01	189.0	1.2	<10	0.59	0.07	0.04	0.03	1.1	0.09	<5	<0.2	0.02
W443158		99.00	0.24	2.65	305	20.4	930	0.45	2.64	1.56	0.78	14.2	2.92	<5	2.1	0.55
W443159		100.28	0.03	0.09	59.4	7.4	320	0.32	3.08	2.15	0.68	19.2	2.94	<5	1.5	0.75
W443160		101.62	0.05	0.07	61.9	6.6	290	0.58	2.99	1.90	0.66	18.6	2.47	<5	1.3	0.68
W443161		99.31	0.03	0.10	63.6	6.8	300	0.32	2.93	2.02	0.66	18.5	2.51	<5	1.3	0.66
W443162		101.41	0.05	0.07	67.9	7.5	320	0.44	3.09	2.11	0.75	19.7	2.68	<5	1.4	0.72
W443163		98.98	0.15	0.11	80.2	12.1	300	0.43	3.15	2.05	0.81	18.6	2.76	<5	1.5	0.72
W443164		100.37	0.15	0.11	67.0	7.3	300	0.36	3.17	2.01	0.71	18.9	2.42	<5	1.3	0.70
W443165		100.18	0.12	0.13	57.3	6.6	270	0.29	2.70	1.92	0.64	17.0	2.33	<5	1.2	0.61
W443166		100.15	0.14	0.20	73.0	6.6	310	0.51	2.69	1.88	0.68	17.2	2.33	<5	1.2	0.61
W443167		101.95	0.05	0.10	72.4	6.6	360	0.52	2.84	1.94	0.67	18.5	2.67	<5	1.4	0.64
W443168		98.59	0.25	0.10	74.1	6.1	320	0.40	2.58	1.70	0.64	16.6	2.32	<5	1.2	0.58
W443169		99.30	0.02	0.10	60.6	6.2	330	0.70	2.70	1.69	0.62	17.0	2.21	<5	1.2	0.59
W443170		99.32	0.11	0.11	76.4	6.3	340	0.60	2.82	1.81	0.69	17.5	2.35	<5	1.3	0.62
W443171		99.59	0.03	0.11	68.5	6.6	360	0.40	2.85	1.93	0.72	18.4	2.61	<5	1.3	0.67
W443172		100.00	0.18	0.13	75.1	6.6	370	0.52	2.84	1.96	0.73	19.2	2.57	<5	1.4	0.62
W443173		99.64	0.19	0.03	57.6	6.9	380	0.27	3.16	2.03	0.67	19.2	2.55	<5	1.4	0.78
W443174		98.62	0.32	0.15	60.5	7.2	380	0.34	3.12	2.14	0.71	19.5	2.74	<5	1.4	0.69
W443175		97.93	0.60	0.54	61.5	6.6	350	0.40	2.91	2.00	0.67	18.2	2.54	<5	1.3	0.64
W443176		98.04	0.12	0.06	81.7	7.1	370	0.39	3.02	2.00	0.77	18.9	2.55	<5	1.5	0.70
W443177		98.38	0.24	2.68	208	25.2	270	0.99	2.49	1.40	1.05	18.0	2.73	<5	2.3	0.47
W443178		99.09	0.25	0.04	57.5	5.5	290	0.24	2.35	1.59	0.57	15.2	1.97	<5	1.1	0.54
W443179		100.10	0.26	0.40	45.5	7.4	400	0.55	3.25	2.20	0.79	20.0	2.78	<5	1.5	0.74
W443180		98.07	0.18	0.13	64.7	7.1	390	0.19	3.27	2.07	0.79	19.4	2.54	<5	1.4	0.69
W443181		99.53	0.12	0.10	65.5	6.2	360	0.21	2.97	2.02	0.63	17.1	2.54	<5	1.3	0.64
W443182		98.47	0.08	0.10	36.8	6.3	340	0.27	2.90	1.84	0.68	17.7	2.27	<5	1.2	0.62
W443183		98.61	0.22	0.26	85.1	7.1	360	0.89	2.93	1.91	0.69	18.1	2.66	<5	1.3	0.64
W443184		97.16	0.36	1.08	46.8	6.5	320	0.41	2.75	1.84	0.72	20.0	2.22	<5	1.2	0.58
W443185		97.73	0.37	0.06	63.4	7.8	330	0.16	3.05	1.98	0.70	17.2	2.81	<5	1.4	0.67
W443186		99.11	0.45	0.08	58.0	6.1	300	0.20	2.53	1.69	0.69	15.8	2.21	<5	1.1	0.57
W443187		99.54	0.18	0.03	64.1	7.4	360	0.13	3.20	2.17	0.73	16.8	2.80	<5	1.3	0.74
W443188		99.10	0.10	0.09	57.4	12.2	130	0.08	4.78	3.22	1.09	19.7	4.12	<5	2.2	1.09
W443189		98.78	0.33	0.15	45.5	13.3	80	0.21	5.31	3.59	1.10	20.1	4.76	<5	2.4	1.20
W443190		101.24	0.31	0.22	58.2	13.3	90	0.24	4.95	3.36	1.06	19.2	4.49	<5	2.4	1.17
W443191		99.56	0.09	0.22	60.2	13.5	50	0.15	5.31	3.48	1.17	19.9	4.59	<5	2.5	1.15
W443192		96.74	0.12	0.28	82.3	12.6	40	0.11	4.98	3.45	1.09	19.1	4.48	<5	2.3	1.08
W443193		100.50	0.07	0.19	93.4	12.2	40	0.13	4.69	3.10	0.96	18.4	3.92	<5	2.2	1.07
W443194		101.34	0.11	0.20	74.0	15.9	50	0.15	5.62	3.85	1.29	21.0	5.11	<5	2.9	1.33
W443195		99.74	0.30	0.24	96.1	11.6	150	0.48	4.38	2.89	1.03	18.5	4.17	<5	2.0	0.96
W443196		99.66	0.40	0.18	119.5	8.7	260	0.74	3.24	2.03	0.68	17.4	2.83	<5	1.4	0.69

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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
W443157		1.1	0.01	0.2	0.4	0.13	1.4	0.14	<1	94.9	0.1	0.01	0.18	0.01	0.37	<5
W443158		10.8	0.24	6.5	11.1	2.65	5.1	2.78	2	68.8	0.5	0.46	2.01	0.23	0.98	191
W443159		3.2	0.33	2.2	6.3	1.21	10.2	1.98	1	132.0	0.2	0.47	0.24	0.31	0.05	307
W443160		2.7	0.30	2.1	5.4	1.05	11.2	1.83	1	127.0	0.2	0.46	0.17	0.29	0.06	278
W443161		2.8	0.33	2.1	5.8	1.12	11.6	1.68	1	127.5	0.2	0.46	0.19	0.33	0.05	289
W443162		3.1	0.35	2.4	6.0	1.20	11.6	1.82	1	124.5	0.2	0.49	0.19	0.32	<0.05	311
W443163		5.2	0.33	5.9	8.3	1.74	12.6	2.33	1	133.5	0.2	0.47	0.46	0.34	0.06	297
W443164		3.0	0.32	2.6	5.9	1.22	11.2	2.19	1	128.0	0.2	0.46	0.22	0.31	0.05	295
W443165		2.7	0.28	2.1	5.3	1.10	8.2	1.74	1	123.5	0.2	0.43	0.17	0.29	0.05	263
W443166		2.7	0.29	2.1	5.1	1.08	11.7	1.72	1	134.5	0.2	0.42	0.22	0.28	0.06	262
W443167		2.7	0.32	2.2	5.6	1.09	10.9	1.84	1	134.5	0.2	0.43	0.17	0.28	<0.05	285
W443168		2.6	0.27	2.0	5.1	0.95	11.6	1.93	1	115.0	0.2	0.43	0.16	0.28	0.05	259
W443169		2.6	0.29	1.9	5.5	1.02	9.1	1.88	1	115.5	0.2	0.43	0.16	0.27	<0.05	264
W443170		2.6	0.31	1.9	5.4	1.04	11.2	1.88	<1	118.0	0.2	0.42	0.18	0.29	<0.05	274
W443171		2.7	0.31	2.0	5.6	1.14	10.8	1.62	1	121.0	0.2	0.43	0.18	0.30	0.05	292
W443172		2.7	0.31	2.1	5.2	1.07	11.0	1.75	1	98.1	0.2	0.47	0.20	0.28	0.05	293
W443173		2.9	0.33	2.2	6.1	1.16	8.0	1.87	2	145.0	0.2	0.47	0.18	0.29	0.05	303
W443174		2.9	0.29	2.0	5.8	1.20	7.5	1.96	1	115.0	0.2	0.45	0.20	0.30	0.06	308
W443175		2.8	0.30	1.9	5.5	1.06	8.2	1.65	1	93.3	0.2	0.44	0.18	0.31	0.06	280
W443176		2.9	0.29	2.0	6.0	1.10	10.3	2.01	1	117.0	0.2	0.43	0.18	0.30	0.05	296
W443177		13.0	0.20	6.7	13.4	3.28	16.1	2.94	4	255	0.5	0.44	1.43	0.20	0.42	116
W443178		2.3	0.26	1.6	4.6	0.93	6.8	1.57	<1	98.8	0.2	0.40	0.13	0.23	<0.05	232
W443179		3.0	0.34	2.2	6.3	1.18	4.2	1.95	1	107.0	0.2	0.49	0.20	0.35	0.07	321
W443180		2.9	0.32	2.2	6.1	1.11	7.7	2.00	1	121.0	0.2	0.45	0.20	0.31	0.05	314
W443181		2.6	0.32	1.9	5.6	1.05	6.2	1.82	1	112.0	0.2	0.42	0.19	0.28	0.06	292
W443182		2.5	0.32	1.9	5.3	1.02	4.6	1.80	1	81.6	0.2	0.43	0.18	0.29	0.05	273
W443183		2.8	0.32	1.9	5.8	1.13	10.6	1.82	1	131.0	0.2	0.45	0.19	0.30	0.05	296
W443184		2.7	0.29	1.7	5.5	1.01	5.9	1.80	1	128.0	0.2	0.41	0.16	0.27	0.06	267
W443185		3.2	0.31	2.2	6.1	1.25	4.2	2.10	1	135.5	0.2	0.47	0.22	0.30	0.07	289
W443186		2.4	0.27	1.7	5.1	1.05	4.5	1.55	1	118.5	0.2	0.38	0.15	0.26	0.07	252
W443187		2.6	0.35	2.2	6.1	1.15	3.8	2.25	1	153.5	0.1	0.49	0.22	0.32	0.05	343
W443188		4.6	0.50	3.9	9.8	1.88	3.9	3.58	1	116.0	0.2	0.71	0.37	0.48	0.09	408
W443189		5.3	0.50	4.3	10.7	2.08	6.1	3.46	1	81.1	0.2	0.78	0.42	0.53	0.11	431
W443190		4.8	0.54	4.0	10.2	1.98	6.8	3.51	1	89.1	0.2	0.81	0.40	0.50	0.11	413
W443191		5.1	0.51	4.4	11.3	2.15	6.6	3.86	1	101.5	0.3	0.83	0.45	0.55	0.11	436
W443192		4.8	0.51	4.1	10.3	1.88	8.6	3.29	1	93.2	0.2	0.78	0.37	0.49	0.08	431
W443193		4.4	0.48	4.0	10.2	1.91	9.0	3.36	1	77.5	0.2	0.77	0.44	0.46	0.08	394
W443194		6.2	0.52	4.8	12.3	2.46	8.3	4.31	1	96.1	0.2	0.83	0.81	0.51	0.17	452
W443195		4.5	0.45	3.6	9.4	1.76	7.6	3.12	1	108.5	0.2	0.69	0.38	0.44	0.11	390
W443196		3.4	0.31	2.2	6.7	1.24	9.3	2.12	1	197.5	0.1	0.47	0.32	0.31	0.07	316

***** 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 TB18010719

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
W443157		1	0.6	0.06	2	0.7	0.04	0.011	<0.005	0.001	0.10	0.4	0.01	0.06	<0.5	<0.5
W443158		95	15.5	1.43	82	37.1	0.28	0.105	0.050	0.013	1.26	11.0	1.23	0.05	2.8	1.0
W443159		1	19.3	2.05	49	0.2	0.03	<0.005	0.007	0.001	0.05	0.5	0.02	0.03	<0.5	<0.5
W443160		1	17.7	2.00	46	0.3	0.02	<0.005	0.005	0.001	<0.05	0.3	0.02	0.04	<0.5	<0.5
W443161		1	18.2	1.91	46	0.1	0.02	<0.005	0.007	0.001	<0.05	0.3	0.03	0.04	<0.5	<0.5
W443162		1	19.2	2.13	50	0.6	0.01	<0.005	0.007	0.001	<0.05	0.4	0.02	0.04	<0.5	0.5
W443163		2	19.0	2.07	48	0.3	0.01	<0.005	0.007	0.002	0.05	0.6	0.02	0.05	<0.5	<0.5
W443164		<1	18.7	2.02	48	0.3	0.01	<0.005	<0.005	0.001	<0.05	0.6	0.02	0.05	<0.5	0.5
W443165		<1	16.8	1.85	42	0.6	0.01	<0.005	0.009	0.001	0.05	0.6	0.03	0.05	<0.5	<0.5
W443166		1	16.4	1.82	42	0.7	0.02	<0.005	0.009	0.001	<0.05	0.5	0.04	0.10	<0.5	0.5
W443167		1	17.5	1.87	44	0.5	0.02	<0.005	0.006	0.001	<0.05	0.5	0.03	0.05	<0.5	<0.5
W443168		1	16.2	1.70	40	0.3	0.02	<0.005	0.005	0.001	<0.05	0.4	0.03	0.03	<0.5	<0.5
W443169		1	16.2	1.78	40	0.3	0.04	<0.005	0.008	0.001	<0.05	0.5	0.03	0.03	<0.5	0.5
W443170		1	16.8	1.74	42	0.2	0.04	<0.005	0.006	0.002	<0.05	0.5	0.03	0.04	<0.5	<0.5
W443171		1	17.7	1.92	45	0.3	0.03	<0.005	0.006	0.001	<0.05	0.4	0.04	0.04	<0.5	0.5
W443172		1	17.7	1.85	46	0.2	0.02	<0.005	0.010	0.001	<0.05	0.6	0.03	0.04	<0.5	0.5
W443173		1	18.5	1.94	46	0.9	0.01	<0.005	0.007	0.001	<0.05	0.2	0.02	0.05	<0.5	0.5
W443174		1	18.9	2.15	48	0.7	0.04	<0.005	0.010	0.001	<0.05	0.7	0.02	0.06	<0.5	<0.5
W443175		1	17.9	1.98	43	0.3	0.04	<0.005	0.009	0.001	<0.05	1.0	0.05	0.06	<0.5	0.7
W443176		1	18.4	1.92	46	0.6	0.02	<0.005	0.005	0.001	<0.05	0.4	0.01	0.06	<0.5	0.5
W443177		4	13.2	1.21	89	3.7	0.86	0.016	0.068	0.006	0.33	5.0	0.55	0.10	2.0	0.9
W443178		1	14.9	1.64	36	0.3	0.02	<0.005	0.005	<0.001	<0.05	0.3	0.02	0.05	<0.5	0.5
W443179		1	19.6	1.97	50	0.4	0.02	<0.005	0.008	0.001	<0.05	0.7	0.04	0.06	<0.5	0.5
W443180		1	19.3	1.96	48	0.3	0.04	<0.005	0.008	0.002	<0.05	0.4	0.03	0.04	<0.5	<0.5
W443181		1	17.9	1.92	45	0.3	0.05	<0.005	0.008	0.001	<0.05	0.3	0.03	0.04	<0.5	0.5
W443182		1	16.9	1.84	43	0.2	0.03	<0.005	0.014	<0.001	<0.05	0.3	0.02	0.09	<0.5	0.7
W443183		1	18.1	1.99	44	0.2	0.06	<0.005	0.010	0.002	<0.05	0.5	0.05	0.07	<0.5	<0.5
W443184		1	16.8	1.64	40	0.2	0.09	<0.005	0.011	<0.001	<0.05	2.3	0.10	0.06	<0.5	<0.5
W443185		1	18.7	2.00	48	0.2	0.01	<0.005	0.010	0.001	<0.05	0.4	0.03	0.03	<0.5	<0.5
W443186		<1	15.5	1.67	37	0.3	0.03	<0.005	0.010	0.001	<0.05	0.5	0.04	0.03	<0.5	<0.5
W443187		1	18.9	2.10	49	0.3	0.01	<0.005	0.008	<0.001	<0.05	0.5	0.02	<0.02	<0.5	<0.5
W443188		<1	28.2	3.10	83	0.3	0.01	<0.005	0.017	0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5
W443189		1	30.5	3.50	91	0.3	0.01	<0.005	0.018	0.002	<0.05	0.4	0.01	0.02	<0.5	<0.5
W443190		1	29.9	3.22	88	0.3	0.01	<0.005	0.018	0.001	<0.05	0.5	0.03	0.02	<0.5	<0.5
W443191		1	30.5	3.49	93	0.6	0.02	<0.005	0.020	0.002	<0.05	0.6	0.02	0.02	<0.5	<0.5
W443192		1	28.8	3.43	87	0.7	0.08	<0.005	0.017	0.002	<0.05	0.5	0.02	0.05	<0.5	<0.5
W443193		1	28.4	3.00	85	0.3	0.07	0.009	0.021	0.001	<0.05	0.6	0.01	<0.02	<0.5	<0.5
W443194		1	32.9	3.70	98	0.5	0.05	0.007	0.018	<0.001	<0.05	0.7	0.01	0.02	<0.5	<0.5
W443195		1	25.8	2.92	74	0.3	0.04	0.005	0.016	0.002	<0.05	0.6	0.01	0.04	<0.5	<0.5
W443196		2	17.5	1.87	51	0.4	0.04	0.006	0.011	0.001	0.05	0.4	0.02	0.07	<0.5	0.7

***** 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 TB18010719

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
W443157		<1	1	20	1	1	6	<1	66	<0.001	<0.005	<0.001	0.003
W443158		154	5650	40	3	2110	7	25	76	0.127	0.680	0.368	10.85
W443159		47	134	20	<1	135	6	38	98	0.001	<0.005	<0.001	0.242
W443160		48	111	20	<1	131	5	40	95	<0.001	<0.005	<0.001	0.221
W443161		46	123	20	<1	126	3	38	89	0.001	<0.005	<0.001	0.253
W443162		44	97	10	<1	126	4	39	85	0.002	<0.005	<0.001	0.180
W443163		48	130	20	1	131	3	41	90	0.002	<0.005	<0.001	0.295
W443164		47	137	10	<1	129	5	40	91	0.001	<0.005	<0.001	0.334
W443165		51	142	20	<1	137	3	42	90	0.002	<0.005	<0.001	0.341
W443166		49	126	20	<1	140	12	41	135	<0.001	<0.005	0.001	0.435
W443167		47	162	20	<1	146	8	34	116	<0.001	0.005	0.001	0.291
W443168		50	144	20	1	140	5	40	83	0.001	<0.005	0.002	0.327
W443169		48	156	20	<1	137	2	40	137	0.002	0.005	0.002	0.341
W443170		49	161	20	<1	136	3	38	108	0.002	<0.005	0.002	0.332
W443171		48	153	20	1	136	4	39	84	0.001	<0.005	0.002	0.356
W443172		45	78	20	1	134	5	40	110	0.004	<0.005	0.002	0.175
W443173		48	92	20	<1	143	3	43	122	<0.001	<0.005	0.003	0.071
W443174		48	126	20	<1	136	5	42	129	<0.001	<0.005	0.002	0.262
W443175		47	258	20	<1	135	9	38	119	0.009	<0.005	0.002	0.804
W443176		47	141	20	<1	141	6	38	104	<0.001	<0.005	0.003	0.210
W443177		114	4490	20	4	4230	27	12	105	0.058	0.271	0.531	10.85
W443178		47	91	10	<1	139	3	40	120	<0.001	<0.005	0.003	0.133
W443179		51	158	10	<1	145	8	41	133	<0.001	<0.005	0.003	0.496
W443180		46	118	10	<1	137	4	42	95	0.001	<0.005	0.003	0.304
W443181		46	83	20	<1	139	11	41	152	<0.001	<0.005	0.003	0.187
W443182		45	29	40	<1	129	2	40	224	<0.001	<0.005	0.003	0.122
W443183		46	205	20	1	131	4	40	106	<0.001	<0.005	0.001	0.197
W443184		65	287	20	<1	139	8	37	103	<0.001	<0.005	0.002	2.19
W443185		53	204	10	<1	136	4	41	95	0.001	<0.005	0.002	0.120
W443186		53	152	10	1	154	<2	44	91	<0.001	<0.005	0.003	0.177
W443187		51	89	10	<1	148	<2	43	86	<0.001	<0.005	0.002	0.056
W443188		50	119	10	<1	63	<2	44	118	<0.001	<0.005	0.001	0.261
W443189		48	103	20	1	44	<2	44	158	<0.001	<0.005	<0.001	0.307
W443190		47	99	20	<1	50	3	44	132	<0.001	<0.005	<0.001	0.436
W443191		50	125	20	<1	37	<2	44	130	<0.001	<0.005	<0.001	0.466
W443192		53	127	30	<1	38	6	45	143	<0.001	<0.005	<0.001	0.507
W443193		51	136	30	1	36	<2	47	170	<0.001	<0.005	<0.001	0.413
W443194		47	118	20	<1	34	<2	43	127	<0.001	<0.005	<0.001	0.441
W443195		48	161	20	1	74	2	43	130	<0.001	<0.005	<0.001	0.591
W443196		46	113	20	<1	120	6	42	109	0.001	<0.005	<0.001	0.307

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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 TB18010719

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
W443197		1.42	20.4	0.20	0.13	27.1	20.9	0.12	0.10	<0.01	0.01	0.05	<0.01	0.02	0.01	31.4
W443198		2.02	66.6	14.65	4.26	4.16	1.65	4.55	2.11	0.01	0.39	0.07	0.08	0.02	0.08	1.87
W443199		1.90	74.0	14.10	2.08	2.26	0.31	4.70	2.04	<0.01	0.23	0.02	0.07	0.03	0.07	1.34
W443200		1.68	49.8	14.75	10.15	9.00	7.99	2.88	1.27	0.05	0.63	0.17	0.20	0.06	0.04	1.83
W443201		2.21	46.8	12.05	7.22	10.40	11.90	2.26	2.14	0.12	0.58	0.12	0.47	0.14	0.08	4.09
W443202		2.13	48.9	15.10	12.45	10.10	8.78	1.60	1.25	0.04	0.54	0.20	0.03	0.01	0.03	2.43
W443203		2.30	50.2	15.10	12.20	11.75	6.09	2.13	0.38	0.04	0.78	0.21	0.06	0.02	0.01	1.63
W443204		2.25	53.0	16.00	10.20	11.80	4.01	2.80	0.17	0.04	0.91	0.21	0.06	0.02	0.01	1.60
W443205		2.24	45.7	15.55	13.00	12.25	5.24	1.84	0.15	0.04	0.87	0.27	0.04	0.01	0.01	3.23
W443206		2.32	52.3	15.85	10.65	13.00	4.14	1.81	0.15	0.04	0.90	0.22	0.06	0.02	0.01	1.60
W443207		2.26	50.4	15.15	10.40	13.30	4.08	1.90	0.12	0.04	0.91	0.23	0.07	0.01	0.01	2.44
W443208		2.21	51.9	15.95	11.10	11.80	4.35	1.93	0.16	0.04	0.90	0.23	0.05	0.01	0.01	1.63
W443209		2.26	49.7	15.25	10.05	12.35	3.93	1.92	0.31	0.04	0.92	0.22	0.07	0.01	0.01	3.96
W443210		2.51	49.8	15.60	12.15	12.30	4.35	1.34	0.25	0.04	0.88	0.27	0.05	0.01	0.01	2.12
W443211		2.50	50.4	15.60	11.40	13.45	4.18	1.72	0.12	0.04	0.93	0.26	0.07	0.01	<0.01	1.93
W443212		2.38	51.8	15.90	10.25	12.10	4.31	2.27	0.15	0.04	0.90	0.22	0.07	0.01	0.01	1.59
W443213		2.69	50.9	16.05	12.45	11.25	4.87	1.87	0.18	0.04	0.91	0.27	0.04	0.01	0.01	1.88
W443214		2.40	52.1	15.90	11.75	10.65	4.39	2.39	0.15	0.04	0.90	0.29	0.06	0.01	0.01	1.17
W443215		2.20	49.1	15.50	14.85	9.47	8.78	2.20	0.28	0.02	0.85	0.19	0.08	0.01	0.01	-0.47
W443216		2.49	49.5	15.70	13.65	10.30	8.25	2.20	0.28	0.02	0.87	0.19	0.08	0.02	0.01	-0.31
W443217		0.04	42.7	9.15	15.20	16.10	11.20	0.61	0.24	0.11	0.68	0.14	0.11	<0.01	0.03	NSS
W443218		2.38	48.2	15.45	13.65	9.77	8.13	2.18	0.30	0.02	0.87	0.18	0.07	0.01	0.01	-0.30
W443219		2.43	49.3	15.95	13.90	9.89	8.25	2.25	0.32	0.02	0.94	0.19	0.08	0.02	0.01	-0.44
W443220		2.39	49.3	15.95	13.70	9.78	8.67	2.22	0.30	0.02	0.92	0.18	0.08	0.02	0.01	-0.45
W443221		2.35	49.1	16.35	13.95	9.59	9.18	2.20	0.27	0.01	0.82	0.18	0.07	0.02	0.01	-0.55
W443222		2.30	48.6	16.20	13.75	9.93	9.03	2.18	0.25	0.02	0.85	0.17	0.10	0.01	0.01	-0.36
W443223		2.36	49.4	16.50	12.85	10.50	7.82	2.31	0.29	0.02	0.99	0.17	0.10	0.01	0.01	-0.33
W443224		2.37	49.3	16.80	13.40	10.15	8.03	2.31	0.29	0.01	0.98	0.17	0.10	0.01	0.01	-0.35
W443225		2.51	48.1	16.05	13.55	9.77	8.07	2.22	0.29	0.01	0.99	0.18	0.10	0.01	0.01	-0.13
W443226		2.41	48.5	16.10	13.90	9.94	8.05	2.22	0.29	0.01	1.05	0.18	0.10	0.01	0.01	-0.39
W443227		2.43	49.3	16.60	13.35	10.25	7.27	2.32	0.31	0.01	1.09	0.17	0.10	0.01	0.01	-0.22
W443228		2.39	48.9	15.85	14.10	10.00	7.83	2.27	0.31	0.01	1.10	0.18	0.10	0.02	0.01	-0.23
W443229		2.55	47.9	15.35	14.70	9.93	7.39	2.28	0.58	0.01	1.12	0.19	0.09	0.01	0.02	1.06
W443230		2.36	49.2	15.35	14.65	9.85	7.41	2.30	0.45	0.01	1.22	0.19	0.11	0.02	0.02	-0.14
W443231		2.48	49.3	14.95	14.85	9.98	7.12	2.27	0.56	0.01	1.29	0.19	0.15	0.01	0.02	0.35
W443232		2.37	49.7	14.30	15.45	9.98	6.67	2.31	0.44	0.01	1.38	0.21	0.14	0.01	0.02	-0.28
W443233		2.50	50.0	14.25	15.80	10.10	6.53	2.36	0.48	0.01	1.44	0.21	0.17	0.01	0.02	-0.15
W443234		0.04	47.4	12.90	20.7	6.32	6.74	2.13	0.63	0.03	1.26	0.18	0.14	0.02	0.02	1.04

***** 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 TB18010719

Sample Description	Method	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho
	Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
W443197		100.44	8.58	0.01	119.0	1.0	<10	0.85	0.10	<0.03	0.03	0.4	0.12	<5	<0.2	0.03
W443198		100.50	0.33	0.19	689	62.1	80	1.04	1.26	0.54	0.91	22.6	2.95	<5	5.1	0.23
W443199		101.25	0.20	0.07	601	77.3	20	0.91	0.54	0.06	0.77	22.6	2.55	<5	6.4	0.04
W443200		98.82	0.15	0.19	356	41.7	340	2.18	2.35	1.32	1.07	15.2	3.23	<5	2.3	0.47
W443201		98.37	0.70	0.18	750	132.0	880	5.66	2.95	1.06	2.47	15.5	6.74	<5	5.2	0.49
W443202		101.46	0.19	0.08	279	3.6	270	2.05	2.00	1.33	0.43	14.8	1.77	<5	0.8	0.49
W443203		100.60	0.28	0.11	84.9	5.8	250	0.34	2.63	1.78	0.61	16.1	2.33	<5	1.1	0.65
W443204		100.83	0.30	0.16	65.8	7.3	290	0.07	3.16	2.30	0.76	17.3	2.83	<5	1.5	0.76
W443205		98.20	0.60	0.26	57.7	7.3	290	0.19	3.34	2.19	0.84	19.1	2.91	<5	1.4	0.81
W443206		100.75	0.30	0.19	59.6	7.4	280	0.10	3.16	2.03	0.64	16.8	2.50	<5	1.4	0.70
W443207		99.06	0.56	0.17	48.0	6.8	260	0.10	2.73	1.92	0.64	15.0	2.39	<5	1.1	0.66
W443208		100.06	0.28	0.20	43.8	7.2	290	0.13	3.18	2.05	0.70	16.8	2.57	<5	1.3	0.76
W443209		98.74	0.83	0.16	69.4	6.5	260	0.62	2.85	1.74	0.65	15.3	2.24	<5	1.1	0.66
W443210		99.17	0.40	0.19	53.0	7.7	300	0.40	3.22	2.17	0.85	17.0	2.78	<5	1.5	0.72
W443211		100.11	0.42	0.36	40.4	7.5	290	0.11	3.35	2.28	0.72	17.2	2.69	<5	1.4	0.77
W443212		99.62	0.30	0.15	65.2	7.9	300	0.16	3.35	2.29	0.70	17.9	2.91	<5	1.4	0.80
W443213		100.73	0.25	0.27	51.5	7.1	270	0.20	3.14	2.12	0.69	16.7	2.64	<5	1.3	0.74
W443214		99.81	0.14	0.14	47.8	7.8	300	0.20	3.61	2.35	0.80	18.3	2.91	<5	1.6	0.77
W443215		100.87	<0.01	0.01	86.7	11.1	120	0.41	2.80	1.69	0.76	18.5	2.71	<5	1.6	0.64
W443216		100.76	<0.01	0.01	100.0	11.2	120	0.47	2.96	1.96	0.76	19.1	2.74	<5	1.6	0.64
W443217		96.27	0.24	2.47	299	19.6	780	0.37	2.61	1.46	0.77	12.0	2.58	<5	1.8	0.51
W443218		98.54	<0.01	0.02	102.0	12.2	130	0.47	3.04	1.85	0.80	19.1	3.05	<5	1.5	0.66
W443219		100.68	<0.01	0.01	103.5	13.4	130	0.65	3.46	2.06	0.88	19.2	3.26	<5	1.7	0.72
W443220		100.70	<0.01	0.01	101.5	12.1	120	0.45	3.14	1.97	0.83	19.3	2.72	<5	1.6	0.64
W443221		101.20	<0.01	0.01	97.8	11.4	100	0.39	2.74	1.74	0.86	19.3	2.79	<5	1.4	0.64
W443222		100.74	0.02	0.01	88.1	13.8	120	0.37	3.05	1.90	0.90	18.4	2.99	<5	1.8	0.61
W443223		100.64	<0.01	0.01	93.8	14.0	150	0.36	3.42	2.11	0.94	18.8	3.12	<5	2.0	0.75
W443224		101.21	<0.01	0.01	98.8	13.8	80	0.57	3.40	2.04	0.96	19.6	3.05	<5	1.9	0.70
W443225		99.22	0.01	0.01	110.0	14.0	80	0.57	3.49	2.09	0.99	18.8	3.14	<5	1.9	0.71
W443226		99.97	0.01	0.01	101.0	13.9	80	0.56	3.50	2.22	0.90	19.0	3.42	<5	2.0	0.73
W443227		100.57	<0.01	0.01	108.0	15.1	90	0.55	3.66	2.33	1.03	20.3	3.47	<5	2.1	0.77
W443228		100.45	0.01	0.01	108.0	14.1	80	0.48	3.59	2.27	0.99	18.7	3.20	<5	2.1	0.79
W443229		100.63	<0.01	0.02	128.5	16.4	80	1.22	3.63	2.36	1.04	18.0	3.48	<5	2.0	0.78
W443230		100.64	<0.01	0.02	136.0	16.3	90	0.94	4.02	2.47	1.07	18.9	3.79	<5	2.2	0.87
W443231		101.05	0.01	0.03	166.5	20.7	90	1.13	4.64	3.10	1.23	20.8	4.24	<5	2.6	0.99
W443232		100.34	<0.01	0.01	136.5	18.6	100	0.99	4.71	2.84	1.19	19.8	4.28	<5	2.6	0.98
W443233		101.23	0.01	0.14	144.0	20.1	100	0.99	5.15	3.13	1.28	20.9	4.75	<5	2.9	1.08
W443234		99.51	0.09	1.68	208	25.0	250	0.93	2.42	1.32	1.02	14.9	2.74	<5	2.5	0.47

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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 TB18010719

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
W443197		0.7	0.02	0.8	0.5	0.10	3.9	0.06	1	142.5	<0.1	0.02	0.15	0.01	0.21	<5
W443198		30.5	0.09	10.0	27.1	7.12	52.4	4.86	2	239	0.8	0.29	7.75	0.06	2.20	76
W443199		38.1	<0.01	12.5	34.2	8.68	55.4	5.65	2	256	1.0	0.20	10.30	0.01	2.74	5
W443200		19.3	0.19	4.3	22.5	5.26	35.4	4.43	1	456	0.2	0.40	2.26	0.19	0.54	187
W443201		58.7	0.12	11.7	69.2	16.90	64.9	11.50	2	1205	0.5	0.66	7.28	0.15	1.75	97
W443202		1.4	0.22	1.0	3.3	0.59	44.3	1.16	<1	117.0	<0.1	0.29	0.10	0.19	<0.05	258
W443203		2.1	0.29	1.7	4.8	0.92	9.6	1.53	1	186.5	0.1	0.45	0.19	0.26	<0.05	302
W443204		2.8	0.35	2.4	6.8	1.18	2.6	2.10	<1	192.5	0.1	0.53	0.21	0.32	<0.05	346
W443205		2.9	0.37	2.4	6.3	1.15	3.2	2.12	1	142.0	0.1	0.50	0.20	0.34	0.05	345
W443206		2.8	0.33	2.2	6.3	1.15	2.5	2.07	1	136.5	0.1	0.44	0.22	0.31	0.06	327
W443207		2.5	0.28	2.0	5.6	1.03	2.3	1.65	1	110.5	0.1	0.40	0.14	0.29	0.06	298
W443208		2.8	0.33	2.3	6.0	1.14	2.9	1.98	<1	111.0	0.1	0.50	0.19	0.32	<0.05	333
W443209		2.4	0.31	2.1	5.5	1.05	11.0	1.92	<1	99.8	0.1	0.39	0.20	0.27	0.05	303
W443210		2.9	0.36	2.4	6.3	1.14	7.3	2.19	1	95.4	0.1	0.49	0.22	0.33	0.07	343
W443211		2.9	0.37	2.3	6.4	1.20	2.9	2.08	1	110.0	0.1	0.47	0.22	0.33	0.06	343
W443212		2.8	0.34	2.5	6.4	1.21	3.2	2.10	1	114.5	0.1	0.57	0.22	0.35	<0.05	353
W443213		2.6	0.31	2.2	6.2	1.13	3.1	2.03	1	91.1	0.1	0.49	0.20	0.32	0.05	321
W443214		2.9	0.36	2.4	6.5	1.24	2.8	2.32	1	109.5	0.1	0.53	0.23	0.31	0.05	356
W443215		4.7	0.25	2.9	7.6	1.54	5.6	2.16	1	144.5	0.1	0.49	0.70	0.27	0.22	257
W443216		4.9	0.27	3.1	7.8	1.61	6.2	2.05	1	148.0	0.1	0.47	0.69	0.28	0.17	278
W443217		9.7	0.20	6.4	11.2	2.54	4.7	2.58	2	65.7	0.3	0.41	1.80	0.22	0.84	183
W443218		5.2	0.25	3.1	8.1	1.69	6.8	2.62	1	156.5	0.2	0.50	0.71	0.26	0.19	272
W443219		5.9	0.31	3.8	9.1	1.91	8.0	2.49	1	153.5	0.2	0.51	0.86	0.32	0.22	279
W443220		5.4	0.26	3.4	8.1	1.68	6.8	2.25	1	149.0	0.1	0.53	0.73	0.30	0.19	265
W443221		5.1	0.25	3.0	8.2	1.58	6.3	2.32	1	159.5	0.1	0.48	0.68	0.29	0.18	251
W443222		6.0	0.26	5.0	8.4	1.87	6.0	2.33	1	158.0	0.2	0.47	0.88	0.26	0.24	248
W443223		6.1	0.30	4.2	9.2	1.97	7.2	2.58	1	156.5	0.2	0.53	0.94	0.30	0.26	276
W443224		6.2	0.30	3.9	9.0	1.91	7.2	2.69	<1	162.5	0.2	0.51	0.84	0.31	0.24	270
W443225		6.2	0.30	3.9	8.8	1.91	7.6	2.61	1	157.5	0.2	0.53	0.93	0.30	0.23	269
W443226		6.1	0.30	4.0	9.1	1.93	7.4	2.73	1	154.5	0.2	0.56	0.88	0.31	0.26	288
W443227		6.7	0.34	4.3	9.7	2.10	8.1	2.91	1	165.5	0.2	0.60	0.95	0.33	0.26	296
W443228		6.1	0.32	4.0	9.2	2.02	7.7	2.76	1	151.0	0.2	0.54	0.99	0.32	0.28	288
W443229		7.6	0.30	4.2	9.9	2.24	16.6	2.85	1	140.0	0.2	0.57	0.97	0.33	0.60	286
W443230		7.0	0.36	4.5	10.4	2.33	12.5	2.98	1	158.0	0.2	0.63	1.07	0.36	0.29	322
W443231		9.7	0.41	5.3	12.6	2.80	17.9	3.71	1	164.0	0.3	0.71	1.33	0.40	0.50	363
W443232		8.3	0.41	5.2	12.3	2.60	12.7	3.41	1	149.0	0.3	0.75	1.21	0.40	0.39	368
W443233		8.7	0.43	5.6	12.9	2.88	14.3	3.95	1	149.5	0.3	0.84	1.32	0.42	0.44	393
W443234		11.5	0.18	7.1	13.1	3.15	15.6	2.79	3	248	0.4	0.41	1.57	0.19	0.47	126

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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 TB18010719

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
W443197		1	0.6	0.06	3	0.3	0.03	0.006	<0.005	<0.001	0.07	<0.2	<0.01	0.08	<0.5	<0.5
W443198		1	5.9	0.48	190	0.3	0.15	0.009	0.014	<0.001	0.07	0.3	0.08	0.14	<0.5	<0.5
W443199		1	1.6	0.03	241	0.3	0.12	<0.005	0.015	<0.001	<0.05	0.2	0.02	0.12	<0.5	<0.5
W443200		<1	12.4	1.23	87	0.2	0.06	0.007	0.009	0.001	0.06	0.4	0.04	0.28	<0.5	0.7
W443201		1	12.4	0.83	204	0.5	0.06	<0.005	0.009	<0.001	<0.05	0.5	0.03	0.48	<0.5	<0.5
W443202		1	11.9	1.26	27	0.1	0.03	<0.005	0.006	0.001	<0.05	0.4	0.04	0.13	<0.5	0.6
W443203		<1	16.1	1.92	40	0.2	0.02	0.006	0.008	0.001	<0.05	0.5	0.01	0.04	<0.5	1.1
W443204		<1	19.3	2.18	52	0.1	0.01	0.005	0.006	0.001	<0.05	0.3	0.02	0.04	<0.5	0.5
W443205		<1	20.0	2.06	51	0.2	0.01	<0.005	0.013	0.001	<0.05	0.5	0.02	0.04	<0.5	1.0
W443206		<1	18.8	2.18	50	0.3	0.02	0.007	0.007	0.001	<0.05	0.4	0.06	0.04	<0.5	0.8
W443207		1	17.2	2.01	45	0.6	0.01	0.006	0.008	0.002	<0.05	0.7	0.03	0.05	<0.5	0.6
W443208		<1	18.8	2.17	50	0.3	0.01	<0.005	0.007	0.001	<0.05	0.4	0.02	0.05	<0.5	1.0
W443209		1	16.0	1.75	44	0.2	0.01	<0.005	0.013	<0.001	<0.05	0.6	0.02	0.10	<0.5	0.9
W443210		<1	19.5	2.23	51	0.2	0.02	<0.005	0.011	0.001	<0.05	0.4	0.02	0.07	<0.5	1.1
W443211		<1	19.2	2.39	51	0.4	0.02	0.005	0.009	0.001	<0.05	0.4	0.02	0.06	<0.5	0.7
W443212		<1	19.9	2.28	53	0.1	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	0.06	<0.5	0.8
W443213		<1	18.0	2.19	48	0.3	0.02	<0.005	0.011	0.001	<0.05	0.4	0.02	0.04	<0.5	0.9
W443214		<1	20.4	2.22	54	0.3	0.02	<0.005	0.011	0.001	<0.05	0.6	0.05	0.03	<0.5	0.6
W443215		<1	16.1	1.73	54	0.3	0.02	0.005	0.014	0.001	<0.05	<0.2	<0.01	0.05	<0.5	1.1
W443216		1	16.2	1.78	54	0.2	0.02	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.05	<0.5	0.9
W443217		1	14.4	1.43	77	44.6	0.35	0.140	0.054	0.015	1.42	13.4	1.43	0.06	2.7	1.5
W443218		<1	16.8	1.80	58	0.6	0.01	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.06	<0.5	1.1
W443219		<1	18.6	1.93	68	0.5	0.02	<0.005	0.014	0.001	<0.05	<0.2	<0.01	0.06	<0.5	1.1
W443220		<1	17.0	1.71	60	0.5	0.02	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.04	<0.5	0.9
W443221		<1	16.0	1.82	56	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.5	<0.01	0.05	<0.5	0.5
W443222		<1	16.8	1.68	66	0.3	0.02	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
W443223		<1	19.4	1.94	73	0.3	0.02	<0.005	0.015	0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443224		<1	18.8	1.78	70	0.4	0.02	<0.005	0.014	<0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W443225		<1	19.4	2.00	72	0.7	0.02	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.08	<0.5	<0.5
W443226		<1	19.7	2.02	74	0.5	0.02	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.05	<0.5	<0.5
W443227		<1	20.9	1.96	80	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W443228		<1	19.9	2.05	79	0.4	0.02	<0.005	0.014	0.001	<0.05	0.3	0.01	0.05	<0.5	<0.5
W443229		<1	20.5	2.06	77	0.5	0.03	<0.005	0.012	0.001	<0.05	0.4	<0.01	0.11	<0.5	<0.5
W443230		<1	22.8	2.19	85	0.6	0.03	<0.005	0.016	0.001	<0.05	0.4	<0.01	0.17	<0.5	<0.5
W443231		<1	25.9	2.62	96	0.5	0.04	<0.005	0.016	0.001	<0.05	0.2	<0.01	0.44	<0.5	0.6
W443232		<1	26.0	2.60	99	0.4	0.03	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.07	<0.5	0.6
W443233		1	28.5	2.75	107	0.6	0.04	<0.005	0.010	0.001	<0.05	0.2	<0.01	0.17	<0.5	0.7
W443234		12	12.8	1.26	103	3.7	0.79	0.013	0.069	0.007	0.34	4.8	0.48	0.10	2.2	1.3

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010719

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
W443197		<1	1	50	<1	<1	3	<1	28	<0.001	<0.005	<0.001	0.003
W443198		14	56	30	<1	35	9	9	57	<0.001	<0.005	<0.001	0.161
W443199		4	32	20	1	4	13	1	43	<0.001	<0.005	<0.001	0.062
W443200		42	124	50	<1	192	5	25	102	<0.001	0.009	0.011	0.302
W443201		45	27	60	<1	456	6	18	88	<0.001	<0.005	0.009	0.069
W443202		53	155	40	<1	166	6	40	98	<0.001	0.030	0.032	0.246
W443203		51	150	20	<1	136	<2	42	93	<0.001	0.012	0.014	0.306
W443204		52	140	10	<1	129	<2	46	102	<0.001	<0.005	<0.001	0.376
W443205		56	197	20	<1	133	<2	43	130	<0.001	<0.005	<0.001	0.506
W443206		52	122	10	<1	128	<2	45	114	<0.001	<0.005	<0.001	0.331
W443207		53	161	10	<1	129	<2	44	102	<0.001	<0.005	<0.001	0.336
W443208		51	140	10	<1	132	2	45	108	<0.001	<0.005	<0.001	0.367
W443209		50	123	20	<1	122	<2	45	94	<0.001	<0.005	<0.001	0.312
W443210		56	111	10	<1	136	<2	47	121	0.002	<0.005	0.001	0.286
W443211		58	169	10	<1	140	3	47	115	<0.001	<0.005	<0.001	0.427
W443212		54	133	10	<1	133	<2	47	103	<0.001	<0.005	<0.001	0.323
W443213		53	162	20	<1	132	<2	43	120	<0.001	<0.005	<0.001	0.369
W443214		52	188	10	<1	134	<2	47	127	<0.001	<0.005	<0.001	0.277
W443215		74	161	10	<1	246	3	23	108	<0.001	<0.005	0.012	0.153
W443216		65	143	10	<1	186	3	28	109	<0.001	0.006	0.012	0.129
W443217		159	5780	40	2	2260	7	27	77	0.099	0.614	0.325	12.00
W443218		65	171	10	<1	214	4	27	109	<0.001	0.006	0.013	0.161
W443219		63	167	10	<1	213	3	26	101	<0.001	0.006	0.016	0.154
W443220		66	158	10	<1	230	7	25	106	0.002	0.006	0.014	0.142
W443221		66	140	10	<1	265	<2	16	100	0.001	0.008	0.012	0.142
W443222		65	136	10	<1	228	2	20	95	0.001	0.006	0.013	0.136
W443223		56	152	10	<1	175	2	24	92	0.001	0.007	0.015	0.143
W443224		58	142	10	<1	183	3	20	91	0.002	0.007	0.014	0.132
W443225		63	161	10	<1	211	4	24	109	0.003	0.006	0.017	0.140
W443226		61	167	10	<1	200	2	26	100	0.006	0.006	0.016	0.144
W443227		54	168	10	<1	169	3	25	98	0.002	0.006	0.015	0.125
W443228		58	167	10	<1	187	<2	25	105	0.002	0.006	0.016	0.150
W443229		54	151	30	<1	164	5	28	89	0.001	0.006	0.016	0.107
W443230		58	191	20	<1	166	<2	28	108	0.002	0.006	0.018	0.130
W443231		57	198	20	<1	150	2	33	125	0.009	<0.005	0.018	0.137
W443232		57	223	10	<1	122	2	35	129	0.004	0.005	0.022	0.126
W443233		57	275	20	<1	112	3	37	124	0.002	<0.005	0.019	0.170
W443234		115	4350	20	4	4270	24	12	105	0.055	0.306	0.585	4.22

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Finalized Date: 7-FEB-2018
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CERTIFICATE OF ANALYSIS TB18010719

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

NSS is non-sufficient sample.

Applies to Method: ALL METHODS

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		