ALS Canada Ltd.

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

Finalized Date: 21-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18073793

Project: Gfields

P.O. No.: 178845

This report is for 36 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-APR-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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
X101612		0.08	61.3	16.25	5.92	6.11	2.77	3.34	1.52	<0.01	0.50	0.12	0.15	0.05	0.07	1.03
X101613		0.08	41.5	8.98	15.05	15.70	10.90	0.67	0.24	0.11	0.72	0.14	0.12	<0.01	0.03	3.92
X101614		2.16	53.6	12.70	9.40	7.92	9.17	2.19	0.68	0.06	0.58	0.15	0.13	0.01	0.01	1.53
X101615		2.37	55.7	12.50	9.49	8.44	10.05	2.14	0.86	0.07	0.57	0.18	0.11	0.01	0.02	1.59
X101616		2.09	54.6	12.20	9.36	7.49	9.64	2.36	0.68	0.07	0.54	0.17	0.13	0.01	0.01	1.67
X101617		2.43	58.4	14.20	9.68	5.79	7.39	2.95	0.98	0.05	0.67	0.19	0.12	0.02	0.02	1.48
X101618		2.26	58.7	15.30	8.78	6.02	5.32	3.13	1.43	0.03	0.82	0.16	0.24	0.03	0.03	0.92
X101619		2.27	55.2	14.45	9.35	6.56	5.42	2.78	1.71	0.02	1.07	0.19	0.28	0.02	0.04	2.02
X101620		2.19	60.0	14.85	8.77	5.62	5.46	3.13	1.25	0.03	0.64	0.14	0.19	0.03	0.03	1.24
X101621		2.39	58.6	15.70	7.76	8.07	3.58	2.81	1.21	0.03	0.56	0.18	0.16	0.02	0.03	0.99
X101622		2.39	55.9	14.90	11.00	7.08	4.58	3.03	1.27	0.02	0.56	0.28	0.15	0.02	0.02	1.05
X101623		2.21	58.1	15.25	8.76	7.18	3.56	3.20	0.86	0.02	0.57	0.20	0.17	0.02	0.02	0.72
X101624		2.29	54.1	17.20	9.66	10.00	3.21	3.17	0.63	0.01	0.88	0.22	0.20	0.03	0.02	0.46
X101625		2.25	55.0	14.10	11.85	8.96	3.93	2.54	0.94	0.01	0.72	0.30	0.17	0.02	0.02	0.52
X101626		2.28	55.1	14.05	11.10	7.82	6.56	2.82	0.65	0.04	0.61	0.24	0.19	0.04	0.03	1.11
X101627		2.49	55.8	14.65	10.25	7.59	5.01	2.88	0.93	0.03	0.53	0.28	0.20	0.03	0.02	0.80
X101628		2.18	62.6	15.20	8.62	5.71	2.43	3.58	1.83	0.01	0.72	0.23	0.11	0.02	0.02	0.78
X101629		2.35	51.0	15.80	13.45	8.41	3.73	3.02	0.82	0.01	1.06	0.35	0.20	0.02	0.03	1.11
X101630		2.29	53.2	14.15	14.05	8.95	3.19	2.55	0.59	0.01	1.22	0.37	0.13	0.02	0.02	1.17
X101631		2.23	53.7	17.65	11.50	9.11	3.85	3.32	0.58	0.02	0.75	0.27	0.18	0.03	0.02	0.64
X101632		0.08	48.5	13.00	21.1	6.36	6.79	2.17	0.63	0.03	1.26	0.19	0.15	0.03	0.02	1.20
X101633		2.27	54.0	17.70	11.20	9.37	3.66	3.09	0.69	0.02	0.78	0.26	0.21	0.03	0.03	0.94
X101634		2.21	54.0	16.95	10.05	8.09	3.46	3.07	0.65	0.02	0.72	0.22	0.21	0.03	0.02	0.92
X101635		2.05	55.5	17.95	9.56	8.95	3.51	3.27	0.60	0.02	0.79	0.19	0.19	0.04	0.03	0.73
X101636		2.07	54.5	16.70	9.73	8.10	3.48	3.27	0.87	0.02	0.72	0.20	0.21	0.03	0.03	0.69
X101637		2.40	51.3	16.30	14.20	7.18	3.98	3.14	0.88	0.02	1.06	0.24	0.28	0.04	0.03	0.80
X101638		2.11	50.7	15.40	17.35	7.29	3.23	2.81	0.69	0.01	0.79	0.50	0.18	0.02	0.02	0.82
X101639		2.72	51.8	15.60	18.35	7.35	2.93	2.63	0.80	<0.01	0.92	0.57	0.14	0.02	0.02	0.41
X101640		2.27	76.9	13.25	1.07	1.17	0.17	3.90	4.23	<0.01	0.07	0.02	0.02	0.01	0.04	0.13
X101641		2.29	76.3	13.15	0.93	1.17	0.17	3.85	4.22	<0.01	0.06	0.02	0.01	0.02	0.03	0.26
X101642		1.56	53.4	16.05	10.85	7.41	5.82	3.25	0.72	0.02	0.77	0.21	0.20	0.03	0.02	0.93
X101643		2.24	53.4	16.90	10.75	8.51	5.39	3.36	0.57	0.01	0.77	0.25	0.20	0.03	0.03	0.72
X101644		2.00	54.2	18.45	10.30	7.85	4.98	3.90	0.46	0.01	0.84	0.23	0.19	0.03	0.02	0.30
X101645		2.05	55.4	17.65	9.05	7.49	4.58	3.83	0.55	0.01	0.81	0.19	0.21	0.03	0.03	0.51
X101646		2.03	59.4	15.65	8.69	6.66	3.96	3.40	1.03	0.01	0.60	0.16	0.17	0.03	0.05	0.94
X101647		2.21	52.4	15.25	12.90	8.34	5.58	2.91	0.68	0.02	1.06	0.24	0.27	0.03	0.03	0.43

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Finalized Date: 21-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073793

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
X101612		99.13	0.04	0.01	579	27.3	10	0.84	4.03	2.51	0.78	17.5	4.07	<5	3.8	0.83
X101613		98.08	0.24	2.39	287	18.8	760	0.56	2.64	1.46	0.83	11.7	2.88	<5	1.9	0.62
X101614		98.13	0.09	<0.01	123.5	17.4	450	1.71	2.66	1.48	0.77	16.4	2.81	<5	1.7	0.53
X101615		101.73	0.05	0.01	156.5	18.1	470	1.71	2.85	1.60	0.69	15.4	3.06	<5	2.0	0.63
X101616		98.93	0.06	0.01	106.5	16.9	440	1.65	2.76	1.37	0.60	14.4	2.58	<5	1.9	0.56
X101617		101.94	0.06	0.02	193.0	20.7	390	3.24	2.63	1.45	0.83	19.8	2.54	<5	2.6	0.53
X101618		100.91	0.03	0.03	270	27.3	200	5.66	2.83	1.59	0.97	20.2	3.03	<5	2.9	0.57
X101619		99.11	0.19	0.04	357	30.2	160	3.46	2.99	1.72	0.99	18.4	3.73	<5	2.8	0.65
X101620		101.38	0.03	0.06	295	31.9	230	3.78	2.39	1.60	1.01	18.4	3.09	<5	2.4	0.54
X101621		99.70	0.09	0.11	275	27.0	190	4.22	3.18	1.50	0.90	20.3	2.97	<5	2.2	0.60
X101622		99.86	0.05	0.30	211	22.7	150	3.87	2.45	1.59	0.91	19.2	3.05	<5	1.9	0.60
X101623		98.63	0.03	0.28	196.5	22.7	120	3.10	2.83	1.65	1.01	19.9	3.07	<5	1.9	0.59
X101624		99.79	0.04	0.03	158.0	22.0	80	1.62	3.37	1.70	1.04	20.7	3.53	<5	1.7	0.72
X101625		99.08	0.05	0.10	157.0	21.0	100	2.12	3.09	1.87	0.93	19.0	3.48	<5	2.2	0.67
X101626		100.36	0.04	0.37	258	33.8	240	1.41	3.07	1.65	1.15	16.7	3.12	<5	2.2	0.53
X101627		99.00	0.03	0.37	203	30.3	200	4.62	3.42	1.92	1.31	19.9	3.50	<5	2.7	0.74
X101628		101.86	0.05	0.55	181.0	17.8	80	2.71	2.50	1.59	0.90	21.2	2.84	<5	2.0	0.56
X101629		99.01	0.05	1.49	231	24.1	100	2.19	4.01	2.04	1.26	22.6	4.44	<5	2.4	0.83
X101630		99.62	0.07	2.21	205	18.9	110	1.24	3.78	2.56	1.15	19.3	3.76	<5	2.0	0.76
X101631		101.62	0.05	0.11	177.5	24.9	170	1.07	3.05	1.75	1.22	20.0	2.99	<5	1.8	0.57
X101632		101.43	0.10	1.70	224	28.2	260	0.93	2.68	1.25	1.12	16.6	2.89	<5	2.7	0.50
X101633		101.98	0.09	0.10	239	26.5	180	1.36	3.42	1.99	1.22	21.2	3.70	<5	1.9	0.72
X101634		98.41	0.10	0.13	215	27.0	130	1.69	3.21	1.91	1.17	18.9	3.28	<5	2.3	0.57
X101635		101.33	0.08	0.07	232	27.3	180	1.32	3.85	2.24	1.37	19.6	3.78	<5	2.3	0.69
X101636		98.55	0.07	0.08	241	28.7	140	2.57	3.36	2.05	1.00	21.0	3.37	<5	2.0	0.61
X101637		99.45	0.09	0.36	250	28.7	150	2.22	2.99	2.08	1.42	20.6	3.57	<5	2.2	0.57
X101638		99.81	0.06	0.89	185.0	21.9	60	1.60	3.37	2.04	1.08	19.1	3.20	<5	2.1	0.63
X101639		101.54	0.06	0.18	190.5	20.9	30	2.22	2.83	1.81	0.91	18.1	2.76	<5	1.8	0.54
X101640		100.98	0.01	<0.01	351	14.7	20	1.14	0.41	0.14	0.34	17.7	0.88	<5	3.1	0.05
X101641		100.19	0.03	<0.01	314	11.5	20	1.22	0.34	0.18	0.27	17.8	0.64	<5	2.3	0.05
X101642		99.68	0.04	0.14	215	27.5	170	1.82	3.25	2.03	1.13	19.2	2.79	<5	2.1	0.63
X101643		100.89	0.04	0.05	228	25.1	100	0.85	3.25	1.85	1.33	20.7	3.06	<5	2.0	0.54
X101644		101.76	0.03	<0.01	215	27.6	50	1.14	2.87	1.70	1.41	21.9	3.06	<5	2.1	0.51
X101645		100.34	0.03	<0.01	270	30.3	50	1.21	2.57	1.44	1.34	19.2	2.84	<5	1.8	0.48
X101646		100.75	0.04	0.02	431	38.0	110	2.25	3.17	1.84	1.13	18.0	2.98	<5	2.1	0.54
X101647		100.14	0.05	0.35	243	30.4	170	2.02	3.81	2.56	1.39	19.2	3.90	<5	2.2	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
X101612		12.1	0.40	3.1	16.0	3.82	26.9	3.90	1	473	0.3	0.67	3.22	0.36	1.48	145
X101613		9.2	0.22	6.2	9.9	2.33	5.1	2.40	2	65.7	0.4	0.47	1.97	0.21	0.94	168
X101614		8.0	0.26	3.6	10.3	2.25	23.6	2.66	1	140.5	0.2	0.43	0.68	0.23	0.30	143
X101615		7.8	0.20	3.9	10.7	2.36	33.7	2.43	<1	134.5	0.3	0.46	1.12	0.23	0.58	132
X101616		8.0	0.25	3.9	9.0	2.17	22.6	2.33	1	130.0	0.3	0.43	1.47	0.25	1.17	124
X101617		9.6	0.21	6.4	10.6	2.57	38.4	2.34	1	209	0.4	0.34	2.36	0.18	1.35	117
X101618		12.1	0.24	6.6	14.0	3.30	58.8	2.74	1	242	0.5	0.46	3.71	0.22	1.69	115
X101619		14.0	0.22	8.5	16.2	3.82	53.2	3.53	1	237	0.7	0.52	3.58	0.23	1.39	108
X101620		15.3	0.20	4.5	14.8	3.75	45.7	3.01	1	229	0.4	0.42	4.62	0.21	1.08	102
X101621		13.5	0.24	5.7	13.3	3.24	49.4	2.96	1	263	0.5	0.49	2.78	0.26	0.94	108
X101622		10.5	0.25	5.2	12.0	3.02	49.8	3.12	1	241	0.4	0.45	2.26	0.23	1.13	110
X101623		10.7	0.21	5.1	12.6	2.98	32.0	2.78	1	216	0.4	0.46	2.15	0.23	1.40	112
X101624		10.1	0.28	5.6	12.4	2.90	17.2	2.78	1	243	0.3	0.46	1.52	0.28	0.60	157
X101625		9.4	0.31	4.7	11.7	2.76	27.2	2.95	1	202	0.3	0.48	2.11	0.26	1.04	139
X101626		15.4	0.24	4.8	17.1	4.09	17.1	3.84	1	308	0.2	0.53	2.21	0.21	0.66	124
X101627		13.5	0.27	5.2	16.6	3.79	40.1	3.73	1	280	0.4	0.58	2.82	0.26	2.00	128
X101628		8.3	0.22	6.0	9.9	2.34	53.6	2.43	1	180.0	0.4	0.43	2.90	0.22	2.36	152
X101629		10.7	0.31	6.7	13.5	3.18	27.1	3.35	1	230	0.4	0.66	1.44	0.36	0.67	254
X101630		8.3	0.29	5.4	12.1	2.53	18.1	3.09	1	217	0.4	0.66	1.03	0.41	0.30	306
X101631		11.5	0.27	4.9	13.9	2.81	14.5	2.90	1	264	0.3	0.48	1.21	0.24	0.24	160
X101632		12.4	0.18	7.0	14.6	3.11	18.2	2.98	4	274	0.4	0.46	1.66	0.22	0.47	127
X101633		12.1	0.30	4.5	15.1	3.13	22.1	3.48	1	288	0.3	0.54	1.27	0.27	0.29	181
X101634		12.2	0.26	5.6	14.8	2.91	21.5	2.95	1	277	0.5	0.47	1.74	0.32	0.52	137
X101635		12.4	0.30	5.7	15.4	3.23	17.7	3.91	1	300	0.4	0.54	1.20	0.32	0.29	164
X101636		13.3	0.32	4.7	16.4	3.40	30.4	3.33	1	300	0.4	0.57	2.37	0.31	0.93	159
X101637		12.9	0.29	5.3	14.7	3.23	30.6	3.00	1	322	0.4	0.44	1.32	0.25	0.50	192
X101638		10.2	0.28	4.6	12.2	2.57	22.8	3.02	1	207	0.4	0.48	1.54	0.27	0.71	146
X101639		9.7	0.27	5.2	11.6	2.39	29.6	2.91	1	172.0	0.4	0.45	1.16	0.29	0.43	172
X101640		6.6	0.03	2.8	7.2	1.70	111.0	1.55	<1	166.0	0.1	0.08	7.57	0.03	2.57	7
X101641		5.2	0.03	2.9	5.5	1.29	105.5	1.15	1	147.0	0.2	0.11	5.95	0.03	2.23	7
X101642		12.8	0.24	6.5	15.3	3.11	27.4	3.12	1	262	0.5	0.51	0.99	0.24	0.31	153
X101643		11.4	0.27	5.8	13.4	2.96	17.4	2.98	1	263	0.4	0.44	0.64	0.25	0.20	151
X101644		13.2	0.28	7.2	13.9	3.17	11.9	2.85	1	300	0.5	0.46	0.83	0.25	0.25	151
X101645		14.1	0.24	6.4	15.6	3.40	13.9	3.05	1	316	1.6	0.43	1.65	0.23	0.20	145
X101646		19.0	0.25	6.2	17.5	4.03	33.2	3.77	1	298	0.5	0.44	3.25	0.21	0.70	104
X101647		13.0	0.31	7.4	18.2	3.69	18.1	4.11	1	333	0.5	0.67	1.19	0.34	0.27	176

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

Finalized Date: 21-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073793

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
X101612		6	22.2	2.47	130	0.9	0.05	<0.005	0.009	<0.001	0.13	<0.2	<0.01	0.05	<0.5	<0.5
X101613		1	13.9	1.44	80	39.8	0.32	0.108	0.049	0.015	1.32	10.7	1.10	0.06	3.2	0.7
X101614		1	14.1	1.62	66	1.2	0.03	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	0.03	<0.5	<0.5
X101615		1	15.2	1.55	76	0.8	0.05	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101616		26	14.3	1.42	66	0.5	0.05	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101617		1	12.3	1.47	100	4.2	0.05	<0.005	0.007	<0.001	0.06	<0.2	0.01	0.08	<0.5	<0.5
X101618		1	14.5	1.35	110	2.8	0.07	<0.005	0.009	<0.001	0.09	<0.2	0.01	0.21	<0.5	<0.5
X101619		3	15.5	1.55	105	1.9	0.06	<0.005	0.007	<0.001	0.07	0.2	<0.01	0.11	<0.5	<0.5
X101620		1	13.0	1.21	89	2.8	0.05	<0.005	0.008	<0.001	0.08	<0.2	0.01	0.16	<0.5	<0.5
X101621		2	14.5	1.54	88	2.8	0.05	<0.005	0.006	<0.001	0.07	<0.2	0.01	0.17	<0.5	<0.5
X101622		1	14.2	1.67	60	2.3	0.08	<0.005	0.008	0.001	0.06	<0.2	0.01	0.19	<0.5	<0.5
X101623		1	14.5	1.66	64	2.3	0.08	<0.005	0.006	<0.001	0.12	<0.2	0.01	0.12	<0.5	<0.5
X101624		1	16.0	1.81	61	2.6	0.04	<0.005	0.009	<0.001	0.06	<0.2	<0.01	0.05	<0.5	<0.5
X101625		1	16.5	1.79	80	1.8	0.03	<0.005	0.009	<0.001	0.07	<0.2	0.01	0.09	<0.5	<0.5
X101626		1	14.6	1.41	83	2.5	0.06	<0.005	0.006	<0.001	0.08	0.3	0.02	0.08	<0.5	<0.5
X101627		1	16.6	1.78	96	3.1	0.08	<0.005	0.007	<0.001	0.10	0.4	0.02	0.17	<0.5	<0.5
X101628		2	13.4	1.50	54	3.3	0.11	<0.005	0.009	<0.001	0.09	0.4	0.02	0.11	<0.5	<0.5
X101629		1	19.9	2.13	85	3.9	0.16	<0.005	0.014	0.001	0.08	1.0	0.04	0.09	<0.5	<0.5
X101630		1	22.6	2.49	73	3.1	0.13	<0.005	0.014	<0.001	0.07	1.3	0.05	0.09	<0.5	<0.5
X101631		1	16.6	1.92	71	1.8	0.03	<0.005	0.008	<0.001	0.05	<0.2	0.01	0.06	<0.5	<0.5
X101632		4	13.9	1.33	100	4.6	0.76	0.010	0.061	0.005	0.31	3.7	0.52	0.10	2.3	0.7
X101633		1	18.4	1.87	72	3.0	0.03	<0.005	0.011	<0.001	0.07	<0.2	0.01	0.05	<0.5	<0.5
X101634		2	17.0	1.61	85	4.4	0.03	<0.005	0.007	0.001	0.09	<0.2	0.02	0.07	<0.5	<0.5
X101635		1	19.6	1.94	80	3.6	0.02	<0.005	0.007	<0.001	0.07	<0.2	0.01	0.05	<0.5	<0.5
X101636		1	17.9	1.96	72	4.0	0.04	<0.005	0.009	<0.001	0.09	<0.2	0.01	0.09	<0.5	<0.5
X101637		1	17.2	1.89	94	2.7	0.05	<0.005	0.012	<0.001	0.08	0.2	0.02	0.10	<0.5	<0.5
X101638		1	17.7	1.99	76	2.2	0.09	<0.005	0.011	<0.001	0.10	0.2	0.03	0.06	<0.5	<0.5
X101639		1	16.7	1.75	74	0.8	0.04	<0.005	0.013	<0.001	0.07	<0.2	0.01	0.09	<0.5	<0.5
X101640		<1	1.8	0.18	67	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101641		<1	1.8	0.20	51	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101642		1	17.2	1.65	84	1.5	0.04	<0.005	0.007	0.001	0.08	0.2	0.01	0.07	<0.5	<0.5
X101643		1	15.8	1.49	75	2.1	0.03	<0.005	0.005	<0.001	0.09	<0.2	0.01	0.02	<0.5	<0.5
X101644		1	15.4	1.64	81	3.6	0.04	<0.005	0.005	<0.001	0.11	<0.2	<0.01	0.02	<0.5	<0.5
X101645		1	13.9	1.57	66	1.2	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101646		6	15.7	1.53	70	0.8	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
X101647		1	20.9	2.28	80	2.6	0.04	<0.005	0.009	0.001	0.07	0.5	0.04	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: 21-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073793

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
X101612		13	95	10	2	8	8	18	66	0.001	<0.005	0.001	0.029
X101613		155	5530	40	2	2150	5	25	77	0.129	0.785	0.376	11.15
X101614		41	20	40	<1	263	<2	23	88	0.001	<0.005	0.003	0.033
X101615		41	20	40	<1	272	2	22	84	0.001	<0.005	0.003	0.030
X101616		39	8	40	1	268	<2	21	85	0.001	<0.005	0.003	0.024
X101617		33	15	60	<1	192	4	19	96	0.002	<0.005	0.004	0.027
X101618		26	40	50	<1	131	7	16	85	0.001	<0.005	0.003	0.065
X101619		26	26	70	<1	110	6	17	87	<0.001	<0.005	<0.001	0.118
X101620		25	66	50	<1	137	2	17	88	<0.001	<0.005	0.002	0.066
X101621		24	25	30	<1	90	18	16	114	<0.001	<0.005	0.001	0.058
X101622		28	50	50	1	100	6	20	119	0.001	<0.005	0.001	0.102
X101623		23	211	30	<1	69	4	17	92	0.001	<0.005	0.001	0.082
X101624		26	11	30	<1	47	<2	23	119	<0.001	<0.005	0.001	0.024
X101625		29	37	30	1	80	4	23	130	<0.001	<0.005	0.001	0.190
X101626		35	51	40	<1	155	4	23	108	<0.001	<0.005	0.002	0.496
X101627		27	31	40	<1	111	7	21	121	0.001	<0.005	0.002	0.423
X101628		29	63	20	<1	47	12	20	81	0.001	<0.005	<0.001	0.528
X101629		49	118	30	1	79	4	32	114	0.001	<0.005	0.001	0.943
X101630		55	195	20	<1	77	2	36	94	0.001	<0.005	<0.001	1.295
X101631		32	35	30	<1	93	<2	21	106	<0.001	<0.005	0.002	0.051
X101632		112	4440	20	4	4290	22	12	105	0.079	0.311	0.595	4.64
X101633		30	36	30	<1	88	<2	23	107	<0.001	<0.005	0.003	0.047
X101634		30	44	30	<1	73	<2	21	102	<0.001	<0.005	0.001	0.076
X101635		28	24	30	<1	84	2	23	101	<0.001	<0.005	0.002	0.028
X101636		27	19	30	<1	65	2	21	99	0.001	<0.005	0.002	0.047
X101637		30	62	40	<1	82	<2	23	126	0.001	<0.005	0.002	0.123
X101638		33	192	40	1	47	4	22	115	0.001	<0.005	0.001	0.151
X101639		25	37	40	<1	22	19	21	138	<0.001	<0.005	<0.001	0.065
X101640		<1	1	10	<1	3	24	1	15	<0.001	<0.005	<0.001	<0.003
X101641		<1	1	10	<1	2	24	1	12	<0.001	<0.005	0.001	<0.003
X101642		33	101	40	<1	136	3	22	111	<0.001	<0.005	0.002	0.111
X101643		31	36	30	<1	100	2	20	114	<0.001	<0.005	0.002	0.063
X101644		30	2	30	<1	68	<2	17	107	<0.001	<0.005	0.001	0.017
X101645		28	2	30	<1	67	<2	18	97	<0.001	<0.005	0.001	0.009
X101646		24	6	50	<1	98	4	17	83	<0.001	<0.005	<0.001	0.050
X101647		42	73	30	<1	259	<2	31	115	0.001	<0.005	0.001	0.631

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THUNDER BAY ON P7B 2R2

Finalized Date: 21-APR-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18073793

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		