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: 22-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18073790

Project: Gfields

P.O. No.: 178845

This report is for 78 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

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 TB18073790

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
X101456		0.04	62.4	16.90	6.12	6.37	2.82	3.36	1.55	<0.01	0.50	0.12	0.13	0.05	0.07	1.11
X101457		0.08	42.0	9.23	15.45	16.15	11.10	0.61	0.24	0.11	0.72	0.15	0.12	<0.01	0.03	3.86
X101458		2.03	63.2	15.45	6.12	4.53	2.25	3.76	2.69	0.01	0.41	0.11	0.15	0.05	0.09	0.88
X101459		1.89	63.4	15.35	6.76	4.56	1.75	3.77	2.58	0.01	0.63	0.10	0.12	0.05	0.08	0.61
X101460		2.24	60.9	15.70	9.31	4.94	1.99	3.61	2.07	0.01	0.91	0.14	0.33	0.04	0.04	0.80
X101461		1.94	66.5	14.40	4.52	3.96	1.74	3.60	1.72	0.01	0.33	0.09	0.10	0.03	0.04	0.97
X101462		2.06	64.5	15.60	5.25	7.08	2.13	3.25	1.16	0.02	0.46	0.14	0.16	0.02	0.04	0.82
X101463		1.95	66.1	15.45	5.26	5.69	1.96	3.82	1.59	0.02	0.51	0.12	0.13	0.03	0.03	0.64
X101464		2.06	61.5	15.60	7.42	6.04	2.88	3.37	1.46	0.02	0.66	0.17	0.21	0.03	0.03	0.70
X101465		2.10	62.0	15.35	7.21	6.15	3.06	2.90	1.33	0.03	0.55	0.16	0.14	0.03	0.03	0.91
X101466		2.14	62.1	15.60	6.35	7.34	2.66	3.14	1.05	0.01	0.57	0.13	0.17	0.03	0.03	0.85
X101467		2.06	63.1	15.25	6.30	5.58	2.81	3.71	1.65	0.02	0.52	0.13	0.15	0.04	0.05	0.75
X101468		1.87	71.4	13.70	3.38	2.28	1.09	3.73	3.43	0.01	0.23	0.07	0.07	0.03	0.07	0.64
X101469		2.22	56.5	15.50	11.85	5.55	3.29	3.16	2.13	0.02	0.67	0.21	0.23	0.04	0.04	1.03
X101470		1.99	58.5	15.10	11.00	5.23	3.34	3.17	2.11	0.02	0.58	0.19	0.20	0.03	0.04	0.84
X101471		2.10	61.5	14.95	8.54	5.66	2.45	3.10	1.60	0.02	0.68	0.15	0.16	0.03	0.03	0.93
X101472		2.31	59.4	15.55	8.28	6.47	2.40	3.31	1.09	0.02	0.62	0.15	0.18	0.03	0.03	0.77
X101473		2.17	55.7	15.35	11.85	5.97	3.36	3.03	1.18	0.02	0.83	0.20	0.19	0.03	0.03	1.10
X101474		2.16	57.4	16.35	9.48	5.78	3.28	3.42	1.23	0.03	0.84	0.19	0.16	0.03	0.03	1.28
X101475		3.10	62.7	15.25	7.25	4.76	2.49	3.68	1.39	0.02	0.57	0.16	0.15	0.03	0.03	0.99
X101476		0.08	47.1	12.45	20.4	6.09	6.53	2.18	0.64	0.03	1.24	0.19	0.15	0.02	0.02	1.10
X101477		1.20	74.1	13.75	1.41	1.76	0.43	4.04	3.60	<0.01	0.13	0.03	0.05	0.05	0.09	0.47
X101478		1.99	74.4	13.65	1.41	1.36	0.46	4.02	4.07	<0.01	0.12	0.03	0.03	0.04	0.10	0.63
X101479		1.92	75.5	13.90	1.36	1.47	0.45	4.05	4.10	<0.01	0.11	0.03	0.03	0.03	0.10	0.62
X101480		2.03	73.4	13.20	1.31	1.40	0.38	3.69	4.27	<0.01	0.11	0.03	0.03	0.04	0.10	0.58
X101481		1.94	75.2	13.40	1.35	1.61	0.41	3.91	3.80	<0.01	0.12	0.03	0.03	0.04	0.09	0.68
X101482		1.28	76.1	13.25	1.96	2.66	0.65	4.56	1.05	<0.01	0.13	0.03	0.04	0.03	0.02	0.78
X101483		3.16	57.7	14.35	8.19	8.23	4.14	2.95	1.21	0.01	0.61	0.17	0.16	0.03	0.03	0.91
X101484		2.11	57.0	14.60	7.26	11.95	3.08	2.37	0.57	0.02	0.71	0.18	0.30	0.03	0.02	0.72
X101485		2.08	61.3	14.80	6.44	7.02	2.55	3.16	1.76	0.02	0.61	0.13	0.16	0.02	0.04	0.98
X101486		2.04	58.0	15.05	7.82	10.40	3.01	2.66	0.88	0.02	0.73	0.14	0.19	0.02	0.02	0.70
X101487		2.27	54.6	14.60	8.90	10.80	3.12	2.25	1.17	0.02	0.71	0.17	0.20	0.02	0.03	1.54
X101488		2.31	57.2	15.70	9.74	9.80	2.61	2.75	1.03	0.02	0.70	0.22	0.17	0.02	0.03	1.04
X101489		2.10	64.7	15.35	5.18	4.64	1.49	3.68	2.26	0.01	0.52	0.12	0.13	0.03	0.03	0.76
X101490		2.31	55.3	14.95	8.68	10.90	3.28	2.66	0.83	0.02	0.74	0.18	0.18	0.02	0.02	0.82
X101491		2.16	66.2	14.05	5.50	7.90	1.66	2.65	2.48	0.01	0.48	0.12	0.16	0.01	0.03	0.74
X101492		2.22	57.6	14.85	7.89	10.05	2.93	2.89	0.69	0.02	0.73	0.15	0.27	0.03	0.02	0.63
X101493		2.32	58.4	15.30	8.18	9.48	3.33	2.82	0.81	0.02	0.72	0.14	0.21	0.02	0.02	0.70
X101494		2.30	56.8	14.05	9.72	11.15	2.76	2.04	0.87	0.02	0.62	0.19	0.17	0.01	0.02	0.79
X101495		2.26	57.3	16.10	9.33	8.39	2.39	2.97	1.08	0.01	0.71	0.21	0.20	0.02	0.03	1.03

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Finalized Date: 22-APR-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101456		101.50	0.04	0.01	599	28.9	10	0.72	4.27	2.66	0.89	16.1	3.94	<5	3.9	0.81
X101457		99.77	0.24	2.57	291	20.4	780	0.42	2.47	1.49	0.87	11.1	2.66	<5	2.0	0.53
X101458		99.70	0.10	0.06	832	67.8	100	2.71	2.35	1.44	1.20	19.1	3.62	<5	3.8	0.48
X101459		99.77	0.03	0.03	732	61.9	90	3.14	1.66	0.90	0.88	18.8	2.14	<5	4.6	0.32
X101460		100.79	0.03	0.17	347	50.3	40	4.62	2.99	1.67	1.04	18.8	3.42	<5	3.2	0.53
X101461		98.01	0.04	0.13	388	36.5	100	4.84	1.72	1.04	0.66	16.0	2.27	<5	2.8	0.32
X101462		100.63	0.04	0.01	346	29.3	150	2.95	3.48	2.33	0.94	18.2	3.94	<5	2.6	0.75
X101463		101.35	0.05	0.10	274	26.7	130	2.79	3.11	1.83	0.87	19.3	3.53	<5	2.9	0.59
X101464		100.09	0.03	0.04	277	29.3	160	4.32	3.23	1.87	0.98	18.4	3.79	<5	3.6	0.63
X101465		99.85	0.03	0.01	275	25.4	190	4.01	3.15	1.84	0.90	18.1	3.74	<5	3.7	0.64
X101466		100.03	0.04	<0.01	264	24.1	100	0.93	3.24	1.67	0.89	19.5	3.11	<5	2.3	0.55
X101467		100.06	0.03	0.06	400	26.9	150	3.06	2.27	1.53	0.92	17.6	2.42	<5	2.5	0.46
X101468		100.13	0.03	0.12	544	18.2	40	2.44	1.14	0.68	0.50	16.4	1.45	<5	2.6	0.23
X101469		100.22	0.04	0.68	316	30.9	130	4.81	2.58	1.55	1.17	18.9	3.03	<5	2.2	0.51
X101470		100.35	0.03	0.33	301	27.2	110	5.24	2.36	1.44	0.97	17.8	2.68	<5	2.2	0.42
X101471		99.80	0.03	0.24	286	26.9	160	3.94	2.30	1.49	1.10	19.0	2.88	<5	3.5	0.46
X101472		98.30	0.03	0.10	248	27.0	100	2.12	2.88	1.54	1.02	19.4	3.45	<5	2.4	0.52
X101473		98.84	0.03	0.36	290	35.1	160	2.39	3.35	2.03	1.18	19.1	3.54	<5	3.4	0.66
X101474		99.50	0.03	0.23	288	31.2	210	2.62	3.08	1.89	1.28	20.2	3.15	<5	2.7	0.55
X101475		99.47	0.03	0.13	270	27.0	110	3.54	2.61	1.55	1.00	19.0	2.69	<5	2.5	0.45
X101476		98.14	0.09	1.68	193.0	22.7	220	0.78	2.38	1.55	0.98	14.8	2.85	<5	2.1	0.49
X101477		99.91	0.02	0.01	789	19.1	10	1.92	0.48	0.30	0.42	16.0	0.89	<5	2.2	0.09
X101478		100.32	0.03	0.01	846	22.3	20	1.50	0.69	0.39	0.36	15.5	1.09	<5	2.3	0.10
X101479		101.75	0.02	<0.01	895	31.3	20	1.52	1.03	0.44	0.42	16.9	1.31	<5	2.4	0.16
X101480		98.54	0.02	<0.01	827	24.2	20	1.40	0.73	0.34	0.38	15.0	1.24	<5	2.0	0.09
X101481		100.67	0.02	<0.01	781	19.5	20	1.20	0.50	0.27	0.38	16.3	0.88	<5	3.0	0.08
X101482		101.26	0.02	<0.01	178.5	9.3	20	1.99	0.67	0.41	0.35	16.7	0.79	<5	3.7	0.13
X101483		98.69	0.03	0.07	214	22.8	110	3.25	2.72	1.60	0.98	17.1	3.03	<5	2.4	0.50
X101484		98.81	0.06	0.01	177.5	28.5	150	0.32	4.21	2.30	1.18	18.1	4.48	<5	2.2	0.78
X101485		98.99	0.02	0.01	342	27.6	100	1.78	2.89	1.85	0.87	18.1	3.24	<5	2.9	0.51
X101486		99.64	0.02	0.02	169.5	30.9	120	0.47	4.05	2.34	1.03	18.0	4.14	<5	3.2	0.86
X101487		98.13	0.02	0.09	233	28.4	150	0.72	3.87	2.26	0.98	17.8	3.97	<5	2.9	0.68
X101488		101.03	0.03	0.16	220	23.4	130	0.71	3.34	1.89	0.87	17.1	3.22	<5	2.5	0.60
X101489		98.90	0.02	0.09	264	24.8	60	2.78	2.02	1.14	0.79	19.4	2.43	<5	3.3	0.41
X101490		98.58	0.02	0.07	160.0	27.9	120	1.40	3.74	2.30	1.14	18.3	3.87	<5	2.7	0.72
X101491		101.99	0.04	0.11	285	26.2	90	0.93	2.56	1.74	0.74	17.4	3.38	<5	2.6	0.57
X101492		98.75	0.02	0.05	172.0	32.3	110	1.07	3.56	2.29	1.05	19.8	4.21	<5	3.0	0.71
X101493		100.15	0.02	0.03	201	28.4	130	0.87	3.96	2.26	0.98	19.0	3.89	<5	3.3	0.69
X101494		99.21	0.03	0.14	131.0	25.3	120	0.97	3.19	2.24	0.89	17.9	3.47	<5	2.6	0.65
X101495		99.77	0.02	0.14	258	30.8	90	1.81	3.53	2.28	1.05	20.1	4.21	<5	3.5	0.76

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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
X101456		13.1	0.40	3.2	17.8	3.98	27.1	3.90	1	498	0.2	0.61	2.94	0.41	1.41	149
X101457		9.8	0.23	6.4	11.2	2.66	5.0	2.65	2	66.0	0.4	0.45	2.02	0.25	1.04	173
X101458		34.7	0.20	6.4	27.7	7.58	91.1	4.74	1	506	0.5	0.44	9.71	0.18	1.58	69
X101459		32.5	0.14	7.7	22.2	6.66	93.4	3.21	1	465	0.4	0.32	11.75	0.14	1.69	124
X101460		24.0	0.16	7.2	22.8	5.96	96.9	4.11	2	329	0.5	0.44	8.01	0.22	1.55	85
X101461		18.1	0.17	5.9	14.7	4.09	68.9	2.74	1	292	0.6	0.37	7.28	0.13	5.84	47
X101462		13.4	0.32	6.1	16.4	3.81	43.1	4.01	1	243	0.9	0.53	5.98	0.32	9.10	92
X101463		12.7	0.25	6.6	13.7	3.51	54.7	3.17	1	278	0.7	0.53	5.51	0.20	2.68	98
X101464		13.7	0.27	6.8	15.6	3.84	58.6	3.50	1	255	0.8	0.55	3.82	0.24	2.07	97
X101465		12.4	0.35	6.3	12.8	3.15	50.8	3.10	1	248	0.8	0.53	3.09	0.30	2.06	106
X101466		12.0	0.26	5.9	12.7	3.20	27.7	3.46	<1	290	0.6	0.55	1.59	0.22	0.88	107
X101467		13.7	0.18	5.0	12.5	3.28	53.3	2.75	1	318	0.6	0.40	4.67	0.16	1.82	91
X101468		9.3	0.11	4.0	7.6	2.06	80.2	1.54	<1	257	0.4	0.19	6.02	0.06	2.31	34
X101469		16.0	0.20	4.6	14.9	3.74	85.3	2.89	1	291	0.5	0.43	4.50	0.20	1.46	133
X101470		14.0	0.19	4.7	12.7	3.34	89.8	2.71	1	268	0.5	0.43	4.82	0.20	1.73	96
X101471		14.1	0.24	6.2	12.9	3.31	66.7	2.89	1	268	0.6	0.46	3.59	0.22	1.22	114
X101472		13.6	0.22	6.5	14.5	3.42	37.8	3.01	1	239	0.6	0.46	3.80	0.23	1.49	102
X101473		17.6	0.28	7.4	17.5	4.43	36.6	3.94	1	262	0.8	0.62	3.60	0.24	0.97	153
X101474		16.0	0.26	6.3	15.2	3.85	42.9	2.74	1	274	0.7	0.53	2.47	0.22	0.55	162
X101475		13.6	0.20	5.7	12.5	3.24	60.9	3.04	3	260	0.6	0.43	4.70	0.19	1.92	92
X101476		11.0	0.16	6.4	11.9	2.95	15.2	2.62	3	249	0.5	0.41	1.44	0.20	0.42	110
X101477		10.1	0.06	2.6	7.1	2.29	73.8	1.09	<1	387	0.3	0.09	3.66	0.04	1.46	12
X101478		12.1	0.05	2.8	8.8	2.51	78.1	1.93	<1	333	0.5	0.10	3.87	0.03	1.21	12
X101479		17.2	0.06	4.7	13.7	3.65	83.1	1.84	<1	341	0.5	0.17	5.34	0.05	1.87	13
X101480		13.0	0.04	3.0	9.3	2.69	83.2	1.42	<1	340	0.4	0.11	4.26	0.02	1.34	11
X101481		10.7	0.03	2.7	7.2	2.06	77.3	1.09	<1	328	0.4	0.08	4.70	0.03	1.72	12
X101482		4.8	0.08	4.3	4.2	1.10	38.2	0.82	<1	243	0.6	0.10	18.75	0.06	7.19	18
X101483		10.7	0.25	6.2	13.0	2.92	56.4	2.65	1	215	0.7	0.54	3.23	0.22	2.16	112
X101484		13.6	0.32	6.7	16.6	3.75	15.9	3.69	1	204	0.6	0.65	1.06	0.28	0.44	127
X101485		13.4	0.23	6.2	13.4	3.40	56.6	3.19	1	203	0.7	0.46	5.08	0.20	1.95	95
X101486		14.6	0.36	7.5	16.4	3.88	21.6	3.99	1	171.5	0.7	0.70	1.83	0.32	0.70	125
X101487		13.3	0.27	6.8	15.3	3.76	39.7	3.53	1	199.5	0.6	0.64	1.84	0.29	0.60	137
X101488		11.5	0.24	4.7	12.6	3.10	28.8	3.11	1	182.5	0.5	0.55	1.30	0.26	0.46	129
X101489		12.9	0.19	6.3	12.3	3.05	62.0	2.63	1	219	0.7	0.40	4.69	0.19	2.07	71
X101490		13.0	0.37	6.7	14.7	3.78	29.7	3.40	1	192.5	0.6	0.60	1.54	0.25	0.48	128
X101491		12.2	0.23	5.2	12.9	3.36	64.3	3.15	1	149.0	0.5	0.44	3.67	0.18	1.79	81
X101492		15.8	0.34	7.0	16.8	4.17	24.9	3.65	1	213	0.6	0.69	2.00	0.27	0.78	130
X101493		13.9	0.32	7.3	14.9	3.67	24.2	3.75	1	223	0.7	0.57	1.94	0.32	0.82	125
X101494		12.4	0.27	6.0	13.1	3.33	25.2	2.82	2	147.5	0.6	0.59	1.88	0.26	0.93	114
X101495		15.0	0.28	6.6	15.9	3.95	35.9	3.33	1	207	0.7	0.66	1.99	0.27	0.75	116

***** 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: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101456		6	22.4	2.98	125	1.2	0.07	<0.005	0.012	<0.001	0.18	<0.2	0.02	0.04	<0.5	<0.5
X101457		1	13.8	1.63	78	46.8	0.33	0.133	0.051	0.017	1.55	11.3	1.26	0.06	2.7	1.1
X101458		1	12.6	1.34	150	0.4	0.06	<0.005	0.011	<0.001	<0.05	0.2	0.02	0.29	<0.5	<0.5
X101459		1	8.4	0.98	175	0.4	0.03	<0.005	0.013	<0.001	<0.05	<0.2	0.01	0.36	<0.5	<0.5
X101460		<1	13.8	1.42	116	0.6	0.06	<0.005	0.016	<0.001	<0.05	0.2	0.01	0.41	<0.5	<0.5
X101461		1	9.1	1.07	93	1.2	0.05	<0.005	0.009	<0.001	0.05	<0.2	<0.01	0.25	<0.5	0.5
X101462		1	18.7	1.84	80	2.6	0.04	<0.005	0.011	<0.001	0.06	<0.2	<0.01	0.14	<0.5	<0.5
X101463		1	15.7	1.74	96	3.6	0.07	<0.005	0.013	<0.001	<0.05	<0.2	0.02	0.33	<0.5	<0.5
X101464		1	17.2	1.91	125	1.4	0.04	<0.005	0.011	<0.001	0.05	<0.2	<0.01	0.26	<0.5	<0.5
X101465		1	17.6	1.81	138	1.5	0.03	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.21	<0.5	<0.5
X101466		1	15.6	1.73	96	1.2	0.04	<0.005	0.009	<0.001	0.05	0.2	<0.01	0.03	<0.5	<0.5
X101467		1	12.4	1.36	86	1.0	0.06	<0.005	0.009	0.001	0.06	<0.2	<0.01	0.22	<0.5	<0.5
X101468		2	5.4	0.51	71	0.7	0.04	<0.005	0.007	<0.001	0.06	<0.2	0.01	0.17	<0.5	<0.5
X101469		1	13.2	1.27	76	0.6	0.10	<0.005	0.013	0.001	<0.05	0.3	0.03	0.41	<0.5	<0.5
X101470		1	12.2	1.37	81	0.6	0.07	<0.005	0.014	<0.001	<0.05	<0.2	0.02	0.43	<0.5	0.5
X101471		1	12.6	1.42	134	1.4	0.08	<0.005	0.014	<0.001	<0.05	0.4	0.05	0.33	<0.5	<0.5
X101472		1	15.1	1.66	95	2.0	0.04	<0.005	0.011	<0.001	0.05	<0.2	0.01	0.19	<0.5	<0.5
X101473		1	17.2	1.55	114	1.5	0.06	<0.005	0.014	<0.001	<0.05	0.2	0.03	0.25	<0.5	<0.5
X101474		2	15.1	1.71	110	1.3	0.06	<0.005	0.011	<0.001	0.05	0.3	0.04	0.24	<0.5	<0.5
X101475		1	12.1	1.34	89	1.4	0.07	<0.005	0.012	0.001	0.07	0.2	0.01	0.32	<0.5	<0.5
X101476		3	12.3	1.43	86	4.3	1.04	0.008	0.064	0.005	0.32	5.1	0.77	0.10	2.0	1.0
X101477		1	2.7	0.31	66	1.1	0.04	<0.005	0.005	<0.001	0.11	<0.2	<0.01	0.12	<0.5	<0.5
X101478		1	3.5	0.41	68	0.8	0.03	<0.005	<0.005	<0.001	0.09	<0.2	<0.01	0.06	<0.5	<0.5
X101479		1	4.4	0.49	69	1.1	0.03	<0.005	<0.005	<0.001	0.11	<0.2	<0.01	0.06	<0.5	<0.5
X101480		1	3.2	0.40	61	1.0	0.03	<0.005	<0.005	<0.001	0.10	<0.2	<0.01	0.06	<0.5	<0.5
X101481		1	2.5	0.19	79	1.2	0.03	<0.005	<0.005	<0.001	0.09	<0.2	<0.01	0.08	<0.5	<0.5
X101482		2	3.9	0.50	89	2.7	0.05	<0.005	<0.005	<0.001	0.21	<0.2	<0.01	0.13	<0.5	<0.5
X101483		1	14.9	1.65	92	1.0	0.06	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.23	<0.5	<0.5
X101484		2	20.9	2.33	94	1.8	0.05	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.03	<0.5	0.6
X101485		1	15.3	1.42	110	1.2	0.05	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.13	<0.5	<0.5
X101486		1	21.8	2.33	131	1.2	0.04	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101487		7	19.6	2.15	119	42.7	0.16	<0.005	0.011	0.001	0.12	0.2	0.02	0.07	<0.5	0.5
X101488		2	16.3	1.79	85	12.2	0.09	<0.005	0.012	<0.001	0.07	0.3	0.01	0.11	<0.5	0.5
X101489		1	11.2	1.19	106	1.8	0.06	<0.005	0.008	<0.001	0.09	0.2	0.01	0.18	<0.5	<0.5
X101490		1	18.6	1.97	105	1.5	0.05	<0.005	0.012	<0.001	0.06	0.2	<0.01	0.10	<0.5	<0.5
X101491		1	14.3	1.49	89	2.3	0.04	<0.005	0.006	<0.001	0.08	<0.2	<0.01	0.07	<0.5	<0.5
X101492		12	20.1	2.22	116	2.5	0.05	<0.005	0.013	0.001	0.07	<0.2	0.01	0.06	<0.5	<0.5
X101493		1	19.3	2.07	128	1.9	0.04	<0.005	0.011	0.001	0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101494		2	17.7	1.78	103	6.2	0.05	<0.005	0.010	0.001	0.20	<0.2	0.01	0.08	<0.5	<0.5
X101495		1	18.9	2.03	137	3.3	0.06	<0.005	0.011	<0.001	0.09	<0.2	0.02	0.14	<0.5	<0.5

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

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

Finalized Date: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101456		15	92	10	2	6	<2	17	63	0.004	<0.005	0.001	0.026
X101457		150	5560	40	2	2150	<2	25	73	0.136	0.689	0.367	10.00
X101458		15	57	40	<1	46	6	11	78	<0.001	<0.005	0.002	0.067
X101459		15	15	30	<1	43	4	8	65	<0.001	<0.005	0.001	0.021
X101460		16	49	40	4	19	9	12	87	0.001	<0.005	<0.001	0.059
X101461		12	32	30	1	26	10	9	272	<0.001	<0.005	0.001	0.051
X101462		17	2	20	<1	43	6	16	65	<0.001	<0.005	0.001	0.006
X101463		40	27	20	<1	200	8	17	116	<0.001	<0.005	0.001	0.090
X101464		22	13	40	<1	41	<2	18	98	<0.001	<0.005	0.002	0.021
X101465		22	2	40	5	45	<2	19	81	<0.001	<0.005	0.002	0.010
X101466		19	2	20	<1	52	2	15	80	<0.001	<0.005	0.001	0.026
X101467		24	40	30	1	57	2	16	135	<0.001	<0.005	0.002	0.058
X101468		7	15	30	<1	21	11	6	46	<0.001	<0.005	<0.001	0.059
X101469		27	106	60	1	68	2	18	115	<0.001	<0.005	0.001	0.184
X101470		23	43	60	<1	74	6	16	98	<0.001	<0.005	0.001	0.128
X101471		24	99	50	1	78	3	18	103	0.001	<0.005	0.002	0.179
X101472		22	43	30	<1	61	3	17	91	<0.001	<0.005	<0.001	0.073
X101473		30	175	50	1	93	<2	19	129	0.001	<0.005	0.002	0.197
X101474		32	109	50	1	91	5	22	110	0.001	<0.005	0.003	0.141
X101475		21	57	50	<1	53	40	16	111	0.001	<0.005	0.001	0.086
X101476		116	4640	20	4	4420	16	13	106	0.086	0.314	0.602	3.75
X101477		2	7	20	<1	9	13	2	25	<0.001	<0.005	<0.001	0.004
X101478		1	3	20	1	8	16	2	15	<0.001	<0.005	<0.001	<0.003
X101479		2	2	20	1	7	14	1	14	<0.001	<0.005	<0.001	<0.003
X101480		2	1	20	1	7	20	1	20	<0.001	<0.005	<0.001	<0.003
X101481		1	1	20	1	6	16	1	20	<0.001	<0.005	<0.001	<0.003
X101482		3	4	20	1	10	20	3	24	<0.001	<0.005	<0.001	0.010
X101483		24	26	40	1	78	11	18	87	<0.001	<0.005	0.001	0.052
X101484		21	16	10	1	61	9	21	87	<0.001	<0.005	0.001	0.015
X101485		18	14	30	1	52	22	15	93	<0.001	<0.005	0.001	0.018
X101486		24	47	20	1	67	17	20	103	0.001	<0.005	0.001	0.029
X101487		46	71	20	1	123	10	21	130	<0.001	<0.005	0.001	0.111
X101488		36	84	20	1	126	7	21	138	0.001	<0.005	0.001	0.192
X101489		14	46	30	1	36	15	10	60	<0.001	<0.005	0.001	0.067
X101490		27	38	20	1	76	8	21	113	<0.001	<0.005	<0.001	0.060
X101491		14	59	10	<1	41	14	12	63	<0.001	<0.005	<0.001	0.138
X101492		22	24	20	1	54	7	19	93	0.001	<0.005	0.001	0.026
X101493		23	24	10	1	65	6	18	96	0.001	<0.005	0.001	0.013
X101494		27	109	10	1	70	9	17	99	0.003	<0.005	<0.001	0.200
X101495		24	54	30	<1	53	2	16	100	<0.001	<0.005	<0.001	0.106

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

Finalized Date: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
X101496		0.04	63.1	16.10	5.73	6.01	2.58	3.34	1.44	<0.01	0.48	0.12	0.13	0.05	0.07	0.93
X101497		2.16	63.8	17.75	4.32	8.68	0.98	3.47	0.48	0.01	0.76	0.16	0.20	0.02	0.02	0.59
X101498		2.20	59.9	17.05	6.58	8.21	2.91	3.67	0.63	0.02	0.73	0.14	0.22	0.02	0.03	0.43
X101499		2.21	59.1	17.30	6.74	8.63	3.10	3.81	0.61	0.02	0.76	0.13	0.23	0.03	0.02	0.48
X101500		2.22	61.9	16.40	6.05	9.34	2.62	3.36	0.46	0.02	0.72	0.11	0.21	0.02	0.02	0.43
X101501		2.03	64.6	16.00	5.24	7.11	2.52	3.79	0.55	0.02	0.70	0.10	0.18	0.02	0.02	0.49
X101502		2.27	58.4	14.20	7.80	6.88	4.18	3.60	2.67	0.02	0.73	0.14	0.35	0.07	0.12	0.67
X101503		2.32	52.0	13.60	10.25	8.83	6.02	3.41	2.51	0.03	0.91	0.17	0.40	0.10	0.11	0.78
X101504		2.24	52.7	13.40	10.50	9.06	6.22	3.22	2.67	0.03	0.90	0.18	0.38	0.10	0.10	0.89
X101505		2.64	47.1	12.65	16.50	11.45	4.73	2.25	0.69	0.02	0.60	0.38	0.20	0.03	0.02	1.38
X101506		2.67	56.2	15.75	10.70	7.31	4.14	3.12	1.02	0.02	0.77	0.20	0.21	0.03	0.02	1.06
X101507		2.65	57.7	15.05	9.68	7.46	3.44	3.03	1.26	0.02	0.65	0.25	0.18	0.02	0.03	0.80
X101508		2.18	57.9	14.30	12.15	5.58	3.28	3.12	1.39	0.01	0.67	0.21	0.23	0.02	0.03	1.13
X101509		2.60	51.1	15.55	15.45	7.76	5.24	2.89	0.71	0.02	0.83	0.25	0.31	0.04	0.03	0.67
X101510		2.43	62.2	14.50	10.25	4.60	3.02	3.46	1.51	0.02	0.52	0.22	0.13	0.02	0.02	0.80
X101511		2.45	62.7	14.95	7.32	5.16	2.09	3.45	1.47	0.01	0.45	0.18	0.15	0.02	0.02	0.61
X101512		2.40	58.4	17.25	8.47	7.42	3.09	3.61	0.72	0.01	0.65	0.16	0.23	0.03	0.03	0.65
X101513		2.64	59.7	17.40	7.30	7.62	2.65	3.74	0.62	0.01	0.64	0.15	0.20	0.03	0.03	0.46
X101514		2.42	58.9	17.40	7.10	9.23	2.43	2.99	0.78	0.01	0.67	0.17	0.23	0.03	0.03	0.63
X101515		2.59	62.0	16.00	6.38	8.12	2.24	3.45	0.98	0.01	0.52	0.16	0.17	0.02	0.02	0.46
X101516		0.07	41.9	9.04	15.35	16.05	11.00	0.62	0.22	0.10	0.71	0.14	0.13	<0.01	0.03	4.44
X101517		2.22	58.0	15.75	9.94	6.93	2.39	3.31	1.25	0.01	0.79	0.26	0.15	0.03	0.02	0.46
X101518		2.39	55.4	17.45	10.55	8.18	2.16	3.32	0.50	<0.01	1.08	0.29	0.17	0.02	0.02	0.36
X101519		2.17	57.9	17.65	9.55	7.92	1.81	2.93	1.01	<0.01	1.06	0.21	0.14	0.02	0.03	0.74
X101520		2.44	50.7	16.45	15.70	7.46	3.04	3.11	0.84	<0.01	1.23	0.45	0.16	0.02	0.02	0.27
X101521		2.19	49.5	16.60	16.15	7.26	3.17	3.29	0.69	<0.01	1.32	0.44	0.12	0.02	0.02	0.61
X101522		2.33	57.0	14.45	14.65	6.22	2.22	3.09	1.53	<0.01	0.67	0.48	0.07	0.01	0.02	0.27
X101523		2.73	60.8	15.85	8.19	8.26	2.30	3.06	1.06	0.01	0.64	0.26	0.13	0.02	0.02	0.61
X101524		1.91	55.9	12.35	17.35	6.17	2.73	2.46	0.67	0.02	0.40	0.32	0.11	0.02	0.02	2.32
X101525		2.46	48.6	11.50	24.2	5.81	3.16	2.29	0.55	0.02	0.31	0.38	0.12	0.01	0.02	3.59
X101526		1.63	50.5	11.15	23.5	6.13	3.06	1.99	0.61	0.02	0.34	0.39	0.12	0.01	0.02	3.63
X101527		1.64	75.0	12.65	1.63	1.08	0.15	3.70	4.12	<0.01	0.05	0.02	0.01	0.01	0.03	0.40
X101528		1.29	56.2	16.30	9.63	7.21	2.67	3.44	0.76	0.01	0.74	0.21	0.18	0.02	0.02	0.86
X101529		2.40	54.7	15.60	10.05	8.49	4.22	2.82	0.80	0.03	0.78	0.20	0.17	0.02	0.03	0.60
X101530		2.33	57.4	15.80	10.35	8.06	3.77	3.22	1.03	0.03	0.75	0.23	0.19	0.03	0.03	0.45
X101531		2.33	62.2	15.40	8.02	6.26	2.49	3.59	1.76	0.01	0.78	0.18	0.13	0.03	0.04	0.46
X101532		2.37	65.2	14.85	6.21	5.64	2.06	3.53	2.73	0.01	0.74	0.14	0.08	0.03	0.05	0.25
X101533		0.08	46.5	12.75	20.7	6.29	6.89	2.17	0.65	0.03	1.26	0.19	0.15	0.03	0.02	1.13

***** 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: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101496		100.08	0.05	0.02	569	27.0	10	0.60	4.62	2.68	0.90	15.9	4.50	<5	4.0	0.87
X101497		101.24	0.04	0.05	203	31.1	60	0.41	3.16	1.61	1.25	21.1	3.67	<5	1.9	0.53
X101498		100.54	0.03	0.03	217	30.3	130	1.02	3.80	2.00	1.26	20.3	3.78	<5	3.0	0.72
X101499		100.96	0.03	0.02	184.5	30.5	140	0.68	3.32	2.01	1.24	18.9	4.07	<5	2.1	0.74
X101500		101.66	0.03	0.01	149.0	36.1	140	0.48	4.57	2.32	1.22	20.9	4.28	<5	4.1	0.90
X101501		101.34	0.04	0.01	158.0	34.9	120	0.70	4.03	2.16	1.12	18.1	4.44	<5	3.8	0.67
X101502		99.83	0.04	0.28	1135	147.5	100	1.29	6.20	2.90	3.04	22.1	10.40	<5	5.3	1.10
X101503		99.12	0.03	0.42	948	197.5	180	0.73	6.83	2.81	3.60	22.1	12.90	<5	6.2	1.05
X101504		100.35	0.05	0.45	870	188.0	190	0.89	6.30	2.50	3.55	20.6	11.60	<5	5.4	1.01
X101505		98.00	0.04	2.04	215	38.2	150	1.12	3.74	2.13	1.18	18.4	3.91	<5	2.7	0.69
X101506		100.55	0.03	0.56	237	30.5	170	3.96	3.09	1.78	1.25	21.5	3.22	<5	2.3	0.61
X101507		99.57	0.04	0.59	225	26.7	110	1.78	3.18	1.70	0.96	18.9	3.34	<5	2.6	0.59
X101508		100.02	0.04	1.59	235	27.9	90	4.89	2.98	1.62	1.20	18.9	3.48	<5	2.0	0.60
X101509		100.85	0.02	0.24	226	36.5	120	1.53	2.76	1.75	1.16	18.1	4.08	<5	2.2	0.60
X101510		101.27	0.02	0.21	223	23.4	110	3.82	1.95	1.29	0.90	19.5	2.50	<5	2.6	0.39
X101511		98.58	0.04	0.02	199.0	24.1	50	2.27	2.14	1.40	0.94	17.3	2.64	<5	2.3	0.44
X101512		100.72	0.05	0.03	283	32.2	90	1.19	2.98	1.52	1.30	21.3	3.37	<5	2.6	0.59
X101513		100.55	0.05	0.02	270	30.2	90	1.19	3.05	1.48	1.33	21.5	4.00	<5	2.1	0.50
X101514		100.60	0.07	0.01	288	34.8	90	1.07	3.75	2.08	1.50	22.1	3.75	<5	2.3	0.70
X101515		100.53	0.04	0.01	226	30.0	80	1.48	2.85	1.69	1.16	20.0	3.20	<5	2.5	0.62
X101516		99.73	0.27	2.66	300	19.6	710	0.40	2.86	1.50	0.77	11.4	2.78	<5	2.1	0.54
X101517		99.29	0.03	0.05	224	25.0	50	4.49	2.51	1.66	1.17	20.0	2.73	<5	2.6	0.54
X101518		99.50	0.03	0.02	121.5	15.3	20	0.39	2.39	1.60	1.02	19.1	2.27	<5	1.3	0.49
X101519		100.97	0.03	0.01	263	18.7	20	1.10	2.95	2.07	1.04	21.4	3.01	<5	2.1	0.66
X101520		99.45	0.06	0.06	191.0	21.6	30	4.26	3.46	2.05	1.29	22.0	3.25	<5	1.9	0.66
X101521		99.19	0.04	0.07	187.0	16.5	20	1.13	2.43	1.75	1.10	18.2	2.37	<5	1.8	0.52
X101522		100.68	0.03	0.03	88.0	7.8	<10	1.73	1.13	0.87	0.40	8.6	1.13	<5	1.1	0.26
X101523		101.21	0.05	0.07	214	24.1	50	3.25	3.35	2.00	1.19	21.9	3.31	<5	2.7	0.60
X101524		100.84	0.04	5.24	149.0	20.2	100	2.02	2.30	1.16	1.01	14.0	2.62	<5	2.0	0.41
X101525		100.56	0.07	8.31	162.5	22.8	120	1.38	2.41	1.56	1.04	14.0	2.71	<5	1.7	0.54
X101526		101.47	0.15	8.07	157.5	25.4	130	2.14	2.96	1.42	0.94	14.8	3.02	<5	2.3	0.54
X101527		98.85	0.05	0.37	241	12.4	10	1.49	0.46	0.29	0.24	14.4	0.89	<5	3.1	0.09
X101528		98.25	0.04	0.80	196.5	25.9	50	1.33	3.03	1.83	1.25	19.8	3.27	<5	1.8	0.68
X101529		98.51	0.02	0.29	206	23.2	170	1.30	3.18	1.90	1.04	15.9	2.96	<5	2.2	0.63
X101530		101.34	0.03	0.18	273	31.7	180	2.75	3.81	2.05	1.31	20.2	4.09	<5	3.1	0.75
X101531		101.35	0.03	0.12	368	23.2	70	4.45	3.25	1.71	0.99	22.0	3.00	<5	2.5	0.68
X101532		101.52	0.02	0.01	452	16.8	60	2.31	3.05	2.02	0.84	20.4	2.92	<5	2.4	0.58
X101533		98.76	0.09	1.76	212	25.5	230	0.97	2.71	1.58	1.19	15.6	3.08	<5	2.3	0.50

***** 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: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101496		13.0	0.38	3.2	17.0	3.85	26.6	3.83	1	501	0.4	0.71	3.11	0.37	1.23	146
X101497		14.3	0.18	6.9	15.4	3.70	10.9	3.30	1	219	0.5	0.47	1.80	0.20	0.65	119
X101498		13.9	0.31	6.6	16.3	3.68	14.9	3.86	1	233	0.5	0.57	1.47	0.31	0.82	117
X101499		14.0	0.30	5.8	16.9	3.63	12.1	3.56	1	228	0.3	0.61	0.95	0.24	0.26	115
X101500		16.4	0.34	7.9	19.2	4.28	8.0	4.04	2	192.5	0.6	0.66	2.27	0.40	0.83	122
X101501		15.8	0.29	7.1	16.8	4.08	12.6	4.00	1	179.5	0.5	0.62	1.82	0.30	0.46	107
X101502		64.8	0.32	12.6	76.4	18.10	53.6	15.10	2	705	1.4	1.20	13.50	0.35	3.41	150
X101503		90.0	0.27	13.0	101.0	24.4	43.7	17.50	2	914	1.1	1.41	17.00	0.39	3.44	193
X101504		85.2	0.30	11.7	93.9	22.8	47.5	16.90	2	843	1.0	1.40	16.25	0.38	4.20	190
X101505		17.8	0.33	5.7	18.9	4.67	23.9	4.11	3	322	0.4	0.58	2.30	0.29	0.63	115
X101506		14.1	0.30	7.1	15.3	3.56	44.2	3.30	1	248	0.5	0.46	2.10	0.30	0.65	132
X101507		12.3	0.24	5.9	14.0	3.33	34.7	3.10	1	201	0.4	0.51	2.46	0.23	0.86	111
X101508		12.4	0.25	5.7	14.7	3.32	58.1	2.84	1	235	0.5	0.46	3.82	0.30	2.08	99
X101509		16.5	0.27	3.5	19.3	4.61	20.5	4.26	1	353	0.2	0.51	1.33	0.26	0.34	157
X101510		11.4	0.20	4.7	11.7	2.78	54.5	2.35	1	225	0.3	0.31	4.95	0.18	2.95	102
X101511		11.5	0.24	4.3	11.9	2.84	38.1	2.48	1	203	0.3	0.37	3.06	0.17	1.97	66
X101512		15.5	0.28	5.2	15.2	3.72	18.3	3.31	1	285	0.3	0.51	1.54	0.25	0.39	108
X101513		14.4	0.27	5.3	15.6	3.66	16.6	3.03	1	279	0.4	0.45	1.28	0.25	0.56	113
X101514		15.8	0.24	5.2	19.0	4.30	22.5	3.80	1	308	0.3	0.59	1.73	0.29	0.45	116
X101515		14.0	0.27	4.8	14.8	3.65	25.4	3.41	1	248	0.3	0.54	2.52	0.22	1.14	102
X101516		9.4	0.27	5.7	10.5	2.53	5.1	2.64	2	67.3	0.3	0.53	1.98	0.28	0.93	166
X101517		11.6	0.23	6.0	12.4	2.86	52.9	2.83	1	246	0.4	0.39	3.52	0.21	2.07	140
X101518		7.3	0.25	4.4	8.7	1.87	11.4	1.92	1	199.0	0.3	0.35	0.39	0.22	0.11	164
X101519		8.7	0.26	4.7	10.5	2.28	37.9	2.81	1	232	0.4	0.52	0.65	0.23	0.66	184
X101520		10.0	0.32	8.3	11.3	2.61	38.2	2.57	1	253	0.7	0.55	1.59	0.33	1.17	209
X101521		8.0	0.29	6.0	8.3	1.96	19.3	1.86	1	223	0.4	0.41	0.60	0.22	0.14	183
X101522		3.6	0.11	2.6	4.4	1.05	23.8	1.33	<1	71.2	0.3	0.19	1.89	0.13	1.50	57
X101523		11.3	0.24	6.3	13.0	3.09	46.0	2.95	1	226	0.5	0.50	2.96	0.24	2.26	115
X101524		9.5	0.18	3.7	10.7	2.55	26.6	2.05	1	172.0	0.3	0.37	1.90	0.20	0.81	63
X101525		10.8	0.21	2.7	12.4	2.76	19.8	2.45	<1	175.5	0.2	0.46	1.57	0.24	0.51	71
X101526		12.2	0.27	3.6	13.0	2.98	26.7	3.20	1	173.5	0.3	0.45	1.03	0.24	0.39	79
X101527		5.9	0.07	2.6	6.0	1.50	75.8	1.26	<1	116.0	0.2	0.09	9.48	0.06	5.19	<5
X101528		11.9	0.25	5.4	13.7	3.09	22.2	3.24	1	258	0.4	0.49	1.01	0.30	0.34	123
X101529		10.6	0.27	4.9	13.0	2.87	19.7	3.14	1	198.0	0.3	0.51	1.25	0.26	0.40	119
X101530		14.1	0.28	6.7	17.4	3.93	40.0	3.81	1	291	0.5	0.61	3.25	0.30	1.17	131
X101531		10.6	0.32	5.4	13.1	3.07	67.0	3.30	1	268	0.5	0.50	4.71	0.28	2.20	165
X101532		7.5	0.28	4.8	8.8	2.09	58.9	2.27	1	281	0.5	0.47	5.45	0.24	2.74	189
X101533		11.5	0.21	6.6	13.2	3.13	15.4	2.79	4	267	0.4	0.47	1.60	0.22	0.45	117

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

Finalized Date: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101496		6	22.6	2.48	142	0.8	0.04	<0.005	0.009	0.001	0.13	<0.2	0.01	0.04	<0.5	<0.5
X101497		2	15.5	1.22	71	2.8	0.05	<0.005	0.009	<0.001	0.06	<0.2	<0.01	0.02	<0.5	<0.5
X101498		2	19.2	1.92	118	2.4	0.04	<0.005	0.010	0.001	0.06	<0.2	<0.01	0.09	<0.5	<0.5
X101499		1	18.7	1.64	81	1.7	0.03	<0.005	0.011	0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
X101500		1	22.9	2.24	153	2.1	0.03	<0.005	0.015	<0.001	0.06	<0.2	<0.01	0.02	<0.5	<0.5
X101501		1	20.1	2.21	151	1.9	0.03	<0.005	0.012	0.001	0.06	<0.2	<0.01	0.04	<0.5	<0.5
X101502		1	29.4	2.27	173	2.5	0.16	<0.005	0.015	<0.001	0.16	<0.2	0.01	0.08	<0.5	1.7
X101503		1	30.5	2.16	205	1.9	0.19	<0.005	0.016	<0.001	0.13	0.2	0.01	0.05	<0.5	<0.5
X101504		1	28.6	2.03	181	2.0	0.19	<0.005	0.014	<0.001	0.14	0.2	0.01	0.06	<0.5	<0.5
X101505		1	20.6	1.83	99	1.2	0.20	<0.005	0.012	<0.001	0.13	0.6	0.04	0.08	<0.5	<0.5
X101506		1	16.4	1.95	81	1.7	0.08	<0.005	0.010	0.001	0.05	<0.2	0.02	0.14	<0.5	<0.5
X101507		1	16.8	1.99	86	1.6	0.11	<0.005	0.008	0.001	0.10	0.2	0.03	0.09	<0.5	<0.5
X101508		2	16.0	1.75	57	2.7	0.31	<0.005	0.014	0.001	0.12	0.2	0.06	0.21	<0.5	<0.5
X101509		1	16.4	1.73	78	1.3	0.09	<0.005	0.013	<0.001	0.06	0.2	0.02	0.09	<0.5	<0.5
X101510		1	11.6	1.31	73	1.9	0.08	<0.005	0.010	<0.001	0.11	<0.2	0.01	0.21	<0.5	<0.5
X101511		1	12.0	1.66	65	3.6	0.06	<0.005	0.008	0.001	0.18	<0.2	<0.01	0.10	<0.5	<0.5
X101512		1	15.6	1.42	96	2.3	0.02	<0.005	0.010	<0.001	0.08	<0.2	<0.01	0.07	<0.5	<0.5
X101513		1	14.7	1.68	75	3.2	0.03	<0.005	0.010	<0.001	0.10	<0.2	<0.01	0.05	<0.5	<0.5
X101514		1	19.0	1.67	87	4.4	0.04	<0.005	0.010	<0.001	0.09	0.2	<0.01	0.05	<0.5	<0.5
X101515		1	15.9	1.80	90	3.2	0.04	<0.005	0.007	<0.001	0.08	<0.2	<0.01	0.06	<0.5	<0.5
X101516		1	14.4	1.53	72	43.7	0.33	0.121	0.049	0.016	1.55	11.7	1.16	0.06	2.7	0.8
X101517		1	14.0	1.44	87	2.5	0.07	<0.005	0.011	<0.001	0.13	<0.2	0.01	0.18	<0.5	<0.5
X101518		1	13.1	1.58	48	2.1	0.03	<0.005	0.011	0.001	0.07	<0.2	0.01	<0.02	<0.5	<0.5
X101519		1	17.5	2.08	74	2.7	0.06	<0.005	0.013	<0.001	0.09	<0.2	<0.01	0.02	<0.5	<0.5
X101520		1	19.5	2.21	67	3.1	0.07	<0.005	0.013	0.001	0.15	<0.2	0.01	0.11	<0.5	<0.5
X101521		1	13.8	1.78	59	3.3	0.04	<0.005	0.012	0.001	0.12	<0.2	0.01	0.04	<0.5	<0.5
X101522		1	7.1	0.61	29	5.1	0.09	<0.005	0.011	<0.001	0.25	<0.2	<0.01	0.11	<0.5	<0.5
X101523		1	16.9	1.91	85	5.5	0.07	<0.005	0.011	<0.001	0.20	<0.2	0.01	0.12	<0.5	<0.5
X101524		<1	12.5	1.23	68	2.0	0.42	<0.005	0.011	0.001	0.06	0.7	0.07	0.10	<0.5	<0.5
X101525		1	14.3	1.32	55	1.0	0.51	<0.005	0.009	0.001	<0.05	0.6	0.07	0.08	<0.5	<0.5
X101526		1	15.5	1.71	88	1.3	0.56	<0.005	0.009	0.002	0.07	1.1	0.14	0.09	0.7	<0.5
X101527		1	2.5	0.32	57	2.0	0.03	<0.005	<0.005	0.001	0.14	<0.2	0.01	0.03	<0.5	<0.5
X101528		1	15.8	1.75	75	1.8	0.12	<0.005	0.014	0.001	0.11	0.2	0.04	0.08	<0.5	<0.5
X101529		1	16.3	1.77	79	2.2	0.05	<0.005	0.009	<0.001	0.05	<0.2	0.01	0.08	<0.5	<0.5
X101530		1	20.2	2.15	97	2.6	0.05	<0.005	0.013	0.001	0.08	0.2	0.01	0.14	<0.5	<0.5
X101531		1	16.8	1.88	72	2.7	0.08	<0.005	0.015	0.001	0.12	0.2	0.01	0.19	<0.5	<0.5
X101532		1	16.2	1.80	69	3.2	0.07	<0.005	0.015	<0.001	0.19	<0.2	<0.01	0.07	<0.5	<0.5
X101533		3	12.9	1.34	87	4.2	0.79	0.008	0.059	0.006	0.31	4.8	0.60	0.08	1.9	0.8

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

ALS Canada Ltd.

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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: 22-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18073790

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
X101496		14	90	10	2	7	7	16	62	0.001	<0.005	<0.001	0.040
X101497		8	15	10	<1	23	<2	11	56	<0.001	<0.005	<0.001	0.056
X101498		24	14	20	2	73	2	17	100	<0.001	<0.005	<0.001	0.017
X101499		24	6	20	<1	66	<2	18	111	<0.001	<0.005	<0.001	0.003
X101500		22	5	10	<1	65	2	17	96	<0.001	<0.005	<0.001	0.005
X101501		19	2	20	1	52	4	15	84	0.003	<0.005	<0.001	0.003
X101502		22	65	20	<1	32	250	17	801	<0.001	<0.005	0.001	0.110
X101503		31	64	30	<1	44	12	24	121	<0.001	<0.005	0.001	0.116
X101504		34	75	30	<1	56	21	26	116	<0.001	<0.005	0.002	0.153
X101505		37	230	30	<1	98	3	16	94	<0.001	<0.005	<0.001	0.451
X101506		28	111	40	<1	83	4	18	95	<0.001	<0.005	<0.001	0.092
X101507		22	62	30	<1	61	6	17	88	<0.001	<0.005	<0.001	0.130
X101508		30	178	40	1	75	4	17	84	<0.001	<0.005	<0.001	0.253
X101509		32	66	40	<1	84	2	22	126	<0.001	<0.005	0.001	0.120
X101510		20	70	40	<1	65	10	14	83	<0.001	<0.005	<0.001	0.114
X101511		15	8	30	<1	37	9	12	80	<0.001	<0.005	<0.001	0.020
X101512		27	10	30	<1	65	2	15	116	0.002	<0.005	<0.001	0.030
X101513		25	3	30	<1	62	<2	14	89	<0.001	<0.005	<0.001	0.009
X101514		19	3	20	<1	52	<2	17	90	<0.001	<0.005	<0.001	0.010
X101515		19	2	20	<1	51	7	13	84	<0.001	<0.005	<0.001	0.012
X101516		149	5340	40	2	2100	5	24	79	0.107	0.698	0.363	9.51
X101517		22	19	40	<1	37	7	16	104	<0.001	<0.005	<0.001	0.037
X101518		26	4	30	<1	19	<2	18	90	<0.001	<0.005	<0.001	0.003
X101519		28	1	30	1	16	<2	18	83	<0.001	<0.005	<0.001	<0.003
X101520		27	23	40	<1	30	2	20	139	<0.001	<0.005	<0.001	0.023
X101521		31	7	40	1	29	<2	23	141	<0.001	<0.005	<0.001	0.041
X101522		20	16	40	<1	14	11	15	80	<0.001	<0.005	<0.001	0.010
X101523		18	17	20	<1	31	9	15	81	<0.001	<0.005	<0.001	0.038
X101524		27	123	20	2	71	11	12	103	0.001	<0.005	<0.001	0.397
X101525		42	217	30	3	110	2	14	112	0.004	<0.005	<0.001	0.539
X101526		41	235	30	3	102	4	14	102	0.005	<0.005	0.001	0.632
X101527		2	10	10	<1	7	24	1	10	<0.001	<0.005	<0.001	0.077
X101528		25	70	30	3	41	<2	20	103	<0.001	<0.005	<0.001	0.195
X101529		34	30	30	<1	105	<2	24	106	0.004	<0.005	0.002	0.065
X101530		26	27	30	<1	87	4	21	107	<0.001	<0.005	0.002	0.098
X101531		25	40	30	<1	47	9	19	102	<0.001	<0.005	<0.001	0.075
X101532		25	11	20	<1	42	18	21	81	<0.001	<0.005	<0.001	0.008
X101533		113	4260	20	5	4340	25	12	100	0.072	0.298	0.610	3.89

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CERTIFICATE OF ANALYSIS TB18073790

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		