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 TB18073791

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 TB18073791

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
X101534		0.09	61.1	16.35	5.93	6.16	2.82	3.30	1.52	<0.01	0.50	0.12	0.16	0.06	0.07	0.96
X101535		0.08	41.3	8.97	15.05	15.70	11.15	0.60	0.23	0.10	0.71	0.14	0.12	0.01	0.03	3.92
X101536		2.16	60.0	15.75	7.97	7.18	2.94	3.90	1.00	0.01	0.94	0.18	0.13	0.02	0.02	0.44
X101537		2.12	74.0	13.55	1.54	1.52	0.39	3.65	4.42	<0.01	0.11	0.03	0.02	0.02	0.04	0.22
X101538		2.19	65.4	15.00	6.48	3.97	1.36	3.82	2.64	<0.01	0.54	0.17	0.09	0.02	0.03	0.39
X101539		2.24	52.9	15.40	14.35	6.45	2.74	3.38	1.23	0.01	0.71	0.27	0.15	0.03	0.03	1.34
X101540		2.04	45.3	12.85	25.4	6.61	3.33	2.43	1.01	0.02	0.41	0.32	0.24	0.02	0.02	2.96
X101541		1.11	77.9	13.15	0.89	1.15	0.11	3.40	5.03	<0.01	0.05	0.02	0.01	0.01	0.03	0.18
X101542		2.18	53.2	14.65	15.70	6.00	3.17	2.92	1.19	0.01	0.60	0.39	0.19	0.03	0.03	1.59
X101543		1.49	64.4	15.20	5.81	6.32	1.74	2.89	2.38	0.01	0.49	0.15	0.14	0.03	0.03	0.51
X101544		2.28	56.3	17.15	9.87	8.23	2.81	3.14	0.87	0.01	0.72	0.23	0.25	0.03	0.03	0.61
X101545		2.37	56.3	15.85	12.65	6.59	2.59	3.34	1.12	<0.01	0.71	0.38	0.21	0.03	0.03	0.56
X101546		2.32	56.8	17.40	9.62	7.08	2.58	4.05	0.66	<0.01	0.92	0.18	0.14	0.03	0.03	0.41
X101547		2.32	55.2	14.35	15.50	4.62	3.14	3.25	1.77	0.02	0.78	0.14	0.14	0.03	0.03	0.59
X101548		2.26	53.3	15.95	11.85	6.55	5.84	3.34	0.95	0.03	0.66	0.17	0.13	0.03	0.03	1.12
X101549		2.38	48.5	14.40	19.50	6.27	4.68	2.78	0.95	0.02	1.40	0.19	0.20	0.03	0.03	0.28
X101550		2.35	46.9	13.45	23.6	5.65	3.59	2.60	1.08	0.02	1.78	0.21	0.29	0.02	0.03	0.36
X101551		2.34	60.2	15.75	8.40	6.20	3.49	3.28	1.60	0.02	0.62	0.18	0.19	0.02	0.03	0.58
X101552		2.31	60.4	16.75	7.86	6.38	3.26	3.33	1.05	0.03	0.63	0.14	0.14	0.02	0.03	0.54
X101553		2.28	61.8	16.15	6.38	7.59	2.84	3.16	0.58	0.03	0.53	0.11	0.12	0.02	0.02	0.86
X101554		0.08	46.4	12.65	20.6	6.22	6.86	2.16	0.63	0.03	1.26	0.19	0.16	0.03	0.02	1.23
X101555		2.38	57.2	16.75	8.53	6.45	3.33	3.35	1.40	0.02	0.89	0.16	0.32	0.03	0.04	0.71
X101556		2.37	55.1	16.45	10.40	6.27	3.75	3.35	1.11	0.02	0.75	0.20	0.16	0.03	0.03	1.14
X101557		2.26	55.1	16.05	10.30	5.91	4.27	3.16	1.22	0.03	0.81	0.20	0.12	0.03	0.04	0.78
X101558		2.08	56.0	16.80	8.81	6.45	3.60	3.24	1.35	0.01	0.72	0.18	0.30	0.03	0.04	0.83
X101559		2.21	64.4	15.25	5.46	4.13	2.13	3.60	2.38	0.01	0.37	0.11	0.18	0.02	0.03	0.79
X101560		2.12	58.8	17.00	8.74	6.41	2.87	3.43	1.35	0.01	0.94	0.18	0.33	0.03	0.04	1.10
X101561		2.27	61.6	15.40	6.15	5.60	2.87	3.36	2.23	0.01	0.53	0.13	0.15	0.03	0.04	1.08
X101562		2.40	53.0	16.00	11.90	6.57	5.03	4.27	0.54	0.01	0.68	0.18	0.11	0.03	0.02	0.56
X101563		2.38	53.1	15.85	12.15	7.21	4.51	3.96	0.62	<0.01	0.67	0.17	0.08	0.01	0.01	0.55
X101564		2.10	56.9	15.70	11.10	5.85	4.21	3.75	0.97	<0.01	0.67	0.18	0.10	0.02	0.02	0.61
X101565		2.41	54.8	14.95	13.10	7.98	5.28	2.90	0.54	<0.01	0.83	0.26	0.14	0.03	0.02	0.57
X101566		1.96	56.9	15.20	10.05	6.81	3.93	3.24	0.90	<0.01	0.84	0.22	0.19	0.03	0.02	0.65
X101567		2.40	64.4	14.80	6.39	4.88	3.84	3.52	2.12	0.02	0.45	0.12	0.10	0.01	0.02	0.96
X101568		2.40	52.0	15.25	10.70	7.78	6.74	2.98	0.50	0.03	0.69	0.20	0.17	0.02	0.02	0.97
X101569		2.30	54.2	14.85	10.25	7.18	5.72	2.81	0.90	0.02	0.63	0.23	0.17	0.02	0.02	1.35
X101570		2.33	52.3	15.40	11.65	7.56	5.95	2.86	0.55	0.02	0.65	0.26	0.20	0.03	0.02	0.80
X101571		2.47	52.6	16.20	14.35	7.51	5.31	3.00	0.64	0.02	0.58	0.27	0.25	0.03	0.02	0.84
X101572		2.37	49.1	15.05	16.95	8.16	4.79	2.42	0.76	0.02	0.77	0.48	0.20	0.02	0.02	0.99
X101573		2.38	46.2	13.00	22.7	7.68	3.98	1.78	0.72	0.01	0.73	0.75	0.13	0.02	0.02	0.63

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Finalized Date: 22-APR-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18073791

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
X101534		99.05	0.06	0.02	582	28.7	10	0.75	4.56	2.76	1.04	16.5	4.10	<5	4.0	0.91
X101535		98.03	0.27	2.69	290	19.4	750	0.52	2.80	1.71	0.85	11.4	2.71	<5	2.1	0.52
X101536		100.48	0.04	0.03	146.5	23.0	100	2.99	3.89	2.46	1.00	22.1	3.75	<5	2.2	0.73
X101537		99.51	0.02	0.01	373	15.1	20	2.44	0.60	0.31	0.34	17.0	0.77	<5	2.6	0.10
X101538		99.91	0.02	0.13	275	17.8	20	4.37	1.57	0.80	0.75	18.9	1.95	<5	2.0	0.27
X101539		98.99	0.03	2.02	224	20.9	60	4.51	2.96	1.64	1.14	18.8	2.94	<5	2.2	0.55
X101540		100.92	0.04	7.19	192.5	28.5	100	2.25	3.88	2.26	1.08	15.4	3.96	<5	2.2	0.69
X101541		101.93	0.02	0.03	231	11.7	10	1.33	0.44	0.28	0.35	16.5	0.89	<5	3.9	0.07
X101542		99.67	0.02	2.34	224	23.8	90	3.49	2.71	1.58	1.20	17.8	2.85	<5	1.8	0.53
X101543		100.10	0.02	0.13	279	26.6	70	1.96	2.57	1.52	0.97	19.5	3.33	<5	3.1	0.50
X101544		100.25	0.03	0.19	230	26.3	70	1.58	3.28	1.94	1.29	19.7	3.15	<5	2.1	0.64
X101545		100.36	0.02	0.10	240	20.9	20	2.66	2.59	1.68	1.01	18.6	2.60	<5	1.8	0.52
X101546		99.90	0.04	0.12	229	20.8	30	1.70	2.97	1.79	1.19	20.0	2.97	<5	1.9	0.58
X101547		99.56	0.03	0.39	236	23.6	130	4.76	2.54	1.49	0.89	21.8	2.27	<5	2.2	0.43
X101548		99.95	0.05	0.16	250	24.4	200	1.98	3.03	1.87	1.11	20.0	2.89	<5	3.5	0.53
X101549		99.23	0.03	0.15	256	27.4	160	2.20	3.41	1.85	1.05	23.0	3.34	<5	2.7	0.66
X101550		99.58	0.03	0.50	267	34.6	140	3.87	3.85	2.15	1.03	26.5	4.15	<5	2.6	0.73
X101551		100.56	0.04	0.20	237	26.4	130	1.78	2.54	1.45	1.24	19.1	3.12	<5	2.7	0.50
X101552		100.56	0.03	0.06	243	26.5	200	2.46	2.65	1.38	1.10	20.1	3.05	<5	1.9	0.48
X101553		100.19	0.10	0.02	193.5	30.3	200	0.72	2.53	1.32	1.26	19.3	2.81	<5	2.3	0.48
X101554		98.44	0.12	1.73	207	25.8	230	0.90	2.83	1.38	1.05	15.6	3.11	<5	2.5	0.44
X101555		99.18	0.04	0.08	344	40.9	150	2.61	3.95	2.17	1.30	20.1	4.72	<5	2.8	0.68
X101556		98.76	0.04	0.28	245	28.9	170	2.57	2.26	1.64	1.26	19.4	2.71	<5	2.6	0.57
X101557		98.02	0.03	0.18	304	26.0	180	3.51	2.31	1.37	1.28	19.0	2.69	<5	2.8	0.43
X101558		98.36	0.03	0.04	323	37.7	90	3.47	3.30	1.72	1.35	18.9	3.63	<5	2.7	0.56
X101559		98.86	0.06	0.04	274	27.8	60	2.37	1.82	1.18	0.99	17.4	2.78	<5	2.8	0.43
X101560		101.23	0.04	0.11	330	37.2	70	2.49	3.20	1.75	1.23	18.5	4.02	<5	3.6	0.61
X101561		99.18	0.07	0.04	304	21.8	90	1.45	2.32	1.22	0.93	17.8	2.55	<5	2.5	0.40
X101562		98.90	0.01	0.28	151.5	18.5	40	1.10	2.83	1.49	0.93	18.0	2.65	<5	1.3	0.51
X101563		98.89	0.03	0.20	78.8	13.1	20	1.73	2.66	1.78	0.68	14.8	2.28	<5	1.5	0.50
X101564		100.08	0.01	0.08	154.5	15.5	20	3.91	2.65	1.64	0.80	16.8	2.71	<5	1.8	0.53
X101565		101.40	0.04	0.08	168.0	18.8	30	1.03	3.87	2.26	1.33	17.0	3.76	<5	1.6	0.70
X101566		98.98	0.03	0.06	167.5	20.3	40	3.41	3.18	1.92	1.21	19.7	3.33	<5	2.0	0.63
X101567		101.63	0.03	<0.01	147.0	15.3	100	1.60	1.64	1.15	0.78	17.2	1.96	<5	2.2	0.35
X101568		98.05	0.01	0.01	159.5	20.5	180	1.15	2.97	1.75	1.22	18.3	3.53	<5	1.6	0.69
X101569		98.35	0.03	0.05	184.0	20.4	150	2.33	2.86	1.39	1.09	17.5	3.06	<5	2.2	0.51
X101570		98.25	0.03	0.22	169.0	23.0	160	1.60	3.04	1.69	1.21	18.3	3.06	<5	1.8	0.60
X101571		101.62	0.03	0.43	181.5	22.5	160	1.51	2.71	1.47	1.19	18.6	3.15	<5	1.2	0.54
X101572		99.73	0.04	0.32	192.5	21.1	120	2.72	2.55	1.53	0.99	17.5	2.61	<5	1.7	0.51
X101573		98.35	0.03	0.41	132.0	16.5	70	1.70	2.58	1.39	0.94	16.1	2.50	<5	2.0	0.56

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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
X101534		13.0	0.38	3.0	16.0	3.83	25.6	4.12	1	507	0.3	0.69	2.73	0.38	1.22	146
X101535		9.5	0.26	5.9	10.7	2.44	4.6	2.41	3	68.6	0.4	0.49	1.92	0.20	0.91	170
X101536		10.3	0.37	5.8	13.0	3.03	41.8	3.27	1	230	0.6	0.58	4.31	0.30	2.61	239
X101537		7.5	0.05	2.7	6.0	1.70	96.6	0.91	<1	196.0	0.2	0.09	6.65	0.04	2.49	14
X101538		8.7	0.14	4.7	8.6	2.13	76.5	2.00	1	228	0.4	0.24	5.23	0.11	2.47	87
X101539		9.8	0.26	5.7	10.8	2.69	49.9	2.64	1	240	0.6	0.43	2.34	0.22	1.61	115
X101540		12.5	0.30	3.0	15.7	3.62	37.7	3.71	2	217	0.2	0.57	1.52	0.29	0.55	77
X101541		5.5	0.07	2.8	5.2	1.37	80.3	0.99	<1	120.0	0.2	0.10	9.72	0.04	5.06	<5
X101542		10.9	0.25	5.3	11.5	2.85	46.2	2.46	1	236	0.5	0.45	3.10	0.20	1.27	92
X101543		12.2	0.21	6.1	14.0	3.33	59.8	2.91	1	249	0.5	0.41	4.58	0.21	2.40	72
X101544		12.6	0.26	5.6	13.9	3.24	26.9	3.18	1	288	0.4	0.52	1.90	0.23	0.91	125
X101545		9.2	0.23	4.7	11.1	2.60	30.5	2.82	<1	240	0.5	0.43	2.49	0.25	1.37	133
X101546		9.9	0.26	5.3	11.0	2.60	16.9	2.76	1	257	0.5	0.45	1.09	0.26	0.40	154
X101547		11.4	0.20	3.7	11.5	2.69	50.8	2.64	1	234	0.3	0.35	3.52	0.19	1.49	108
X101548		12.1	0.26	3.2	11.3	2.92	29.4	2.71	1	321	0.3	0.47	1.51	0.24	0.59	145
X101549		13.1	0.29	3.6	13.9	3.34	28.1	3.12	2	277	0.3	0.50	1.46	0.27	0.52	174
X101550		15.5	0.25	6.7	18.8	4.49	34.8	4.23	2	222	0.6	0.61	2.04	0.27	0.81	197
X101551		12.8	0.23	5.7	13.2	3.25	37.6	2.81	1	241	0.4	0.44	3.02	0.23	1.53	103
X101552		12.9	0.22	5.3	12.0	3.02	34.0	2.60	1	254	0.4	0.38	1.84	0.18	0.72	118
X101553		18.3	0.17	4.5	13.0	3.22	14.7	2.41	1	237	0.4	0.39	1.37	0.20	0.42	98
X101554		11.6	0.18	6.4	12.6	3.19	14.8	3.22	4	264	0.4	0.40	1.57	0.19	0.60	116
X101555		18.6	0.28	7.7	20.9	5.15	42.0	4.42	1	294	0.6	0.66	2.97	0.30	0.88	102
X101556		14.4	0.22	6.7	13.1	3.48	33.7	2.64	1	285	0.5	0.44	2.52	0.21	0.67	111
X101557		13.2	0.23	7.5	11.5	3.06	37.7	2.41	1	302	0.5	0.40	2.42	0.22	0.95	117
X101558		17.2	0.23	7.8	18.2	4.60	39.7	3.88	1	289	0.6	0.57	3.67	0.23	0.91	81
X101559		13.3	0.17	5.3	12.6	3.27	48.0	2.79	<1	215	0.5	0.36	5.58	0.19	3.13	44
X101560		17.3	0.24	9.8	19.2	4.69	35.3	4.16	1	273	0.7	0.53	3.17	0.22	0.91	93
X101561		10.5	0.18	4.8	10.8	2.79	52.3	2.47	1	217	0.3	0.32	3.16	0.16	1.61	91
X101562		8.5	0.21	5.0	10.4	2.45	12.9	2.55	1	263	0.3	0.42	1.03	0.22	0.33	167
X101563		5.7	0.23	3.8	7.6	1.71	14.8	2.10	1	129.5	0.2	0.38	1.00	0.24	0.49	144
X101564		7.0	0.24	5.9	8.6	2.02	33.9	2.16	<1	177.0	0.7	0.44	1.91	0.22	1.73	133
X101565		8.3	0.31	6.1	11.9	2.56	14.6	3.11	1	241	0.3	0.62	0.74	0.33	0.28	198
X101566		9.1	0.25	8.7	13.2	2.77	38.4	3.25	1	238	0.6	0.54	1.84	0.26	1.41	159
X101567		7.4	0.16	4.0	8.4	1.93	43.4	1.81	<1	144.5	0.2	0.27	3.56	0.15	1.93	88
X101568		9.0	0.25	4.8	13.1	2.72	12.4	2.92	<1	207	0.2	0.43	0.51	0.23	0.16	166
X101569		9.6	0.22	5.6	12.5	2.73	30.9	2.85	1	187.5	0.3	0.47	1.36	0.24	0.86	123
X101570		10.6	0.26	5.1	13.3	2.86	14.8	3.52	<1	246	0.4	0.45	0.96	0.25	0.25	129
X101571		10.7	0.21	2.3	12.5	2.88	17.5	3.14	1	255	0.1	0.34	0.72	0.21	0.26	125
X101572		10.0	0.21	4.0	12.2	2.75	24.9	2.47	1	186.5	0.2	0.37	1.01	0.25	0.49	151
X101573		7.8	0.23	4.2	9.5	2.06	19.0	1.98	1	172.0	0.2	0.41	1.41	0.20	0.83	165

***** 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 TB18073791

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
X101534		6	23.6	2.72	136	1.0	0.05	<0.005	0.010	<0.001	0.13	<0.2	<0.01	0.05	<0.5	<0.5
X101535		1	14.2	1.69	78	43.3	0.29	0.120	0.050	0.016	1.42	11.7	1.31	0.05	2.6	0.8
X101536		1	19.7	1.97	61	3.2	0.06	<0.005	0.017	<0.001	0.11	0.2	<0.01	0.17	<0.5	<0.5
X101537		<1	2.6	0.26	63	1.8	0.03	<0.005	<0.005	<0.001	0.10	<0.2	<0.01	0.10	<0.5	<0.5
X101538		2	7.9	0.84	49	3.4	0.08	<0.005	0.009	0.001	0.21	<0.2	<0.01	0.19	<0.5	<0.5
X101539		1	15.1	1.65	73	5.3	0.28	<0.005	0.013	0.001	0.14	0.5	0.07	0.16	<0.5	<0.5
X101540		1	19.0	2.03	77	4.3	0.73	<0.005	0.017	0.001	0.13	1.2	0.16	0.13	0.6	<0.5
X101541		<1	2.6	0.33	72	2.1	0.02	<0.005	<0.005	<0.001	0.13	<0.2	<0.01	0.03	<0.5	<0.5
X101542		1	13.9	1.73	64	3.6	0.24	<0.005	0.010	0.001	0.09	0.4	0.04	0.14	<0.5	<0.5
X101543		1	13.1	1.46	95	7.9	0.05	<0.005	0.008	<0.001	0.10	<0.2	<0.01	0.09	<0.5	<0.5
X101544		1	16.7	1.95	70	2.4	0.05	<0.005	0.010	0.001	0.06	<0.2	<0.01	0.07	<0.5	<0.5
X101545		1	14.1	1.67	58	1.6	0.07	<0.005	0.012	<0.001	0.09	<0.2	<0.01	0.09	<0.5	<0.5
X101546		1	15.3	1.77	67	1.7	0.04	<0.005	0.011	<0.001	0.06	<0.2	0.01	0.07	<0.5	<0.5
X101547		1	11.4	1.39	71	2.8	0.10	<0.005	0.019	<0.001	0.10	0.2	0.02	0.21	<0.5	<0.5
X101548		1	15.1	1.72	135	2.7	0.04	<0.005	0.012	<0.001	0.09	0.2	0.01	0.11	<0.5	<0.5
X101549		1	16.0	1.86	99	1.6	0.05	<0.005	0.023	<0.001	0.06	<0.2	0.01	0.11	<0.5	<0.5
X101550		1	18.8	1.87	94	1.6	0.09	<0.005	0.024	0.001	0.06	0.2	0.03	0.16	<0.5	0.5
X101551		1	13.7	1.52	97	2.4	0.04	<0.005	0.011	<0.001	0.10	<0.2	0.01	0.11	<0.5	<0.5
X101552		1	12.8	1.55	67	1.9	0.03	<0.005	0.010	<0.001	0.07	<0.2	0.01	0.15	<0.5	<0.5
X101553		1	12.2	1.32	88	8.0	0.02	<0.005	0.009	<0.001	0.09	<0.2	<0.01	0.07	<0.5	<0.5
X101554		3	13.3	1.24	98	3.9	0.69	0.008	0.060	0.006	0.32	5.4	0.45	0.09	1.6	0.9
X101555		1	19.5	1.96	103	3.4	0.03	<0.005	0.011	<0.001	0.09	0.2	<0.01	0.18	<0.5	<0.5
X101556		2	13.3	1.42	103	2.2	0.05	<0.005	0.011	0.001	0.06	0.3	0.02	0.17	<0.5	<0.5
X101557		1	12.6	1.68	101	2.2	0.03	<0.005	0.012	0.001	0.08	0.3	0.01	0.23	<0.5	<0.5
X101558		1	16.7	1.63	91	3.1	0.04	<0.005	0.010	<0.001	0.07	<0.2	<0.01	0.19	<0.5	<0.5
X101559		1	11.3	1.20	97	1.8	0.03	<0.005	0.008	<0.001	0.07	<0.2	<0.01	0.12	<0.5	<0.5
X101560		1	16.3	1.76	139	2.9	0.05	<0.005	0.012	0.001	0.08	<0.2	0.01	0.15	<0.5	<0.5
X101561		1	11.6	1.21	81	1.3	0.04	<0.005	0.008	<0.001	0.08	0.2	0.01	0.07	<0.5	<0.5
X101562		1	13.4	1.72	48	0.7	0.04	<0.005	0.011	<0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
X101563		1	13.0	1.47	45	1.4	0.05	<0.005	0.011	0.001	0.06	0.2	0.01	0.07	<0.5	<0.5
X101564		<1	14.1	1.73	56	1.4	0.04	<0.005	0.010	<0.001	0.07	0.2	<0.01	0.15	<0.5	<0.5
X101565		1	17.6	2.20	57	3.5	0.04	<0.005	0.010	0.001	0.08	0.2	0.01	0.05	<0.5	0.5
X101566		1	15.9	1.81	60	3.8	0.07	<0.005	0.011	0.001	0.11	0.3	0.01	0.14	<0.5	<0.5
X101567		1	8.5	1.12	58	1.2	0.03	<0.005	0.008	<0.001	0.07	<0.2	<0.01	0.12	<0.5	<0.5
X101568		1	15.9	1.74	54	0.9	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
X101569		1	13.6	1.52	82	2.8	0.07	<0.005	0.010	<0.001	0.12	<0.2	<0.01	0.11	<0.5	0.5
X101570		1	14.5	1.67	72	2.7	0.03	0.006	0.010	<0.001	0.09	<0.2	0.01	0.08	<0.5	<0.5
X101571		1	12.9	1.46	46	1.7	0.05	0.006	0.011	0.001	0.11	<0.2	0.02	0.13	<0.5	<0.5
X101572		1	13.2	1.56	71	1.5	0.08	0.006	0.012	0.001	0.09	0.3	0.01	0.12	<0.5	<0.5
X101573		1	13.8	1.71	71	1.5	0.06	0.005	0.009	0.001	0.08	<0.2	0.01	0.10	<0.5	0.6

***** 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 TB18073791

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
X101534		13	90	10	3	6	8	17	60	0.003	<0.005	<0.001	0.024
X101535		148	5270	40	3	2070	4	24	76	0.109	0.732	0.368	9.89
X101536		32	12	30	1	63	8	27	98	<0.001	<0.005	<0.001	0.050
X101537		2	1	20	<1	6	22	2	20	<0.001	<0.005	<0.001	0.017
X101538		13	23	30	1	16	20	11	68	<0.001	<0.005	<0.001	0.084
X101539		31	153	40	1	49	9	19	100	<0.001	<0.005	<0.001	0.349
X101540		61	533	30	4	124	8	23	98	0.005	<0.005	<0.001	0.933
X101541		1	2	10	<1	1	33	1	9	<0.001	<0.005	<0.001	0.015
X101542		29	256	40	2	58	6	18	100	0.001	<0.005	0.001	0.290
X101543		17	16	20	1	40	14	11	67	<0.001	<0.005	<0.001	0.039
X101544		24	27	30	3	41	5	18	94	<0.001	<0.005	<0.001	0.073
X101545		22	12	40	1	18	9	18	87	<0.001	<0.005	<0.001	0.049
X101546		26	37	20	1	32	2	18	94	<0.001	<0.005	<0.001	0.065
X101547		24	73	40	1	72	9	18	117	<0.001	<0.005	0.001	0.102
X101548		31	61	40	1	141	8	21	107	<0.001	<0.005	0.001	0.069
X101549		29	39	40	1	98	3	25	138	<0.001	<0.005	0.001	0.092
X101550		33	63	40	3	88	6	27	183	<0.001	<0.005	0.001	0.211
X101551		27	65	30	1	81	11	17	90	<0.001	<0.005	0.002	0.103
X101552		23	22	40	1	74	3	17	94	<0.001	<0.005	0.001	0.045
X101553		21	5	20	1	74	4	14	82	<0.001	<0.005	0.001	0.033
X101554		109	4240	20	5	4160	23	11	100	0.052	0.265	0.607	3.78
X101555		23	27	40	1	59	4	17	93	<0.001	<0.005	0.002	0.055
X101556		28	74	40	1	84	5	20	124	<0.001	<0.005	0.002	0.255
X101557		29	48	40	<1	93	5	21	103	<0.001	<0.005	0.001	0.130
X101558		21	11	40	1	59	7	17	92	<0.001	<0.005	<0.001	0.039
X101559		13	14	30	1	29	16	11	62	<0.001	<0.005	<0.001	0.030
X101560		22	27	50	<1	53	7	16	103	<0.001	<0.005	<0.001	0.052
X101561		17	7	30	2	41	13	13	62	<0.001	<0.005	<0.001	0.074
X101562		45	97	30	<1	52	4	27	94	<0.001	<0.005	<0.001	0.176
X101563		48	67	20	1	46	<2	28	107	<0.001	<0.005	<0.001	0.142
X101564		41	28	40	1	38	7	24	96	<0.001	<0.005	<0.001	0.093
X101565		43	24	20	2	50	3	40	113	0.001	<0.005	<0.001	0.108
X101566		30	18	30	1	43	8	30	95	<0.001	<0.005	<0.001	0.073
X101567		20	4	20	1	99	17	13	60	<0.001	<0.005	0.001	0.021
X101568		36	3	30	1	171	3	25	104	<0.001	<0.005	0.001	0.034
X101569		31	19	40	<1	121	6	22	99	<0.001	<0.005	<0.001	0.049
X101570		31	42	30	1	136	3	24	108	<0.001	<0.005	0.002	0.119
X101571		32	63	30	1	116	3	22	108	0.001	<0.005	0.002	0.145
X101572		27	40	40	1	85	6	21	107	<0.001	<0.005	<0.001	0.274
X101573		26	39	40	1	57	7	20	112	<0.001	<0.005	<0.001	0.172

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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 TB18073791

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
X101574		0.09	63.5	16.60	6.01	6.25	2.76	3.28	1.50	<0.01	0.49	0.12	0.14	0.05	0.06	1.05
X101575		2.49	47.1	12.10	22.6	6.96	3.78	2.40	0.52	0.02	0.44	0.42	0.16	0.01	0.02	4.61
X101576		2.24	53.1	16.35	10.45	8.18	5.67	3.36	0.84	0.02	0.79	0.49	0.19	0.03	0.03	1.43
X101577		2.52	48.5	9.87	26.5	4.87	3.12	2.26	0.71	0.02	0.26	0.40	0.10	0.01	0.02	4.43
X101578		2.48	47.1	4.28	34.6	4.02	2.00	0.94	0.48	<0.01	0.09	0.62	0.02	<0.01	0.01	5.60
X101579		2.59	34.9	7.48	40.4	4.29	2.41	1.57	0.45	0.01	0.18	0.47	0.08	0.01	0.01	7.49
X101580		2.70	43.2	7.32	35.8	2.52	1.28	1.89	1.05	0.01	0.13	0.23	0.04	<0.01	0.01	6.49
X101581		2.34	53.1	10.90	19.95	5.71	3.53	2.35	0.66	0.02	0.43	0.30	0.13	0.01	0.02	3.32
X101582		1.81	56.1	16.65	8.04	7.61	4.07	3.52	1.09	0.02	1.22	0.27	0.26	0.03	0.03	1.01
X101583		2.30	55.3	15.95	8.29	7.62	4.08	3.54	0.86	0.02	0.77	0.24	0.19	0.02	0.02	1.45
X101584		2.24	56.7	15.20	7.79	8.28	5.42	3.01	0.66	0.03	0.59	0.16	0.15	0.02	0.02	0.92
X101585		2.03	68.0	13.80	4.29	3.32	2.46	3.72	2.42	0.01	0.36	0.08	0.10	0.01	0.02	0.86
X101586		2.03	55.2	14.95	10.00	7.35	5.72	2.76	0.78	0.02	0.79	0.20	0.22	0.02	0.02	1.21
X101587		2.31	53.2	14.45	9.61	11.80	5.69	2.53	0.44	0.03	0.69	0.19	0.15	0.03	0.02	0.53
X101588		2.24	53.1	14.70	9.83	9.91	5.71	3.01	0.80	0.03	0.69	0.21	0.17	0.03	0.02	1.05
X101589		2.43	52.7	15.45	10.85	8.52	6.42	2.93	0.58	0.03	0.68	0.21	0.18	0.03	0.02	0.84
X101590		2.09	53.7	16.15	10.35	8.24	6.32	3.22	0.82	0.03	0.70	0.24	0.21	0.03	0.03	1.15
X101591		2.25	53.9	15.70	11.05	7.68	5.77	3.12	0.56	0.03	0.71	0.26	0.19	0.03	0.02	0.75
X101592		2.30	51.4	13.75	11.35	7.36	6.96	2.66	0.53	0.04	0.65	0.25	0.15	0.02	0.02	0.92
X101593		2.31	57.1	13.90	9.69	7.04	7.23	2.71	0.76	0.05	0.56	0.17	0.14	0.02	0.02	0.91
X101594		0.08	42.4	9.21	15.45	16.20	11.15	0.63	0.24	0.11	0.70	0.15	0.13	0.01	0.03	4.05
X101595		2.35	53.8	13.60	9.96	7.33	7.99	2.70	0.63	0.05	0.60	0.16	0.14	0.02	0.02	1.60
X101596		2.33	58.2	14.55	9.66	5.83	6.03	3.10	1.02	0.02	0.66	0.19	0.14	0.02	0.03	0.94
X101597		2.34	54.8	16.20	10.10	8.43	5.44	3.41	0.58	0.02	0.76	0.17	0.22	0.02	0.02	0.42
X101598		2.09	52.0	16.45	10.55	8.48	5.21	3.32	0.43	0.02	0.84	0.17	0.26	0.03	0.01	0.26
X101599		2.25	55.9	16.05	9.62	7.99	4.95	3.40	0.63	0.02	0.77	0.15	0.21	0.02	0.01	0.51
X101600		2.39	56.7	15.50	8.96	7.67	4.55	3.30	0.38	0.02	0.78	0.13	0.20	0.01	0.01	0.63
X101601		2.21	60.3	15.15	6.92	6.22	3.42	3.51	1.51	0.02	0.60	0.11	0.17	0.01	0.02	0.62
X101602		2.22	67.5	14.60	5.27	4.16	2.67	3.83	2.54	0.02	0.36	0.11	0.11	0.02	0.02	0.38
X101603		2.48	58.9	15.65	10.10	6.48	3.87	3.49	1.28	0.02	0.73	0.20	0.21	0.02	0.03	0.65
X101604		2.41	55.6	16.10	9.64	7.65	5.74	3.20	0.86	0.03	0.67	0.18	0.16	0.03	0.03	0.98
X101605		2.51	54.8	14.90	9.15	8.47	6.96	3.00	0.81	0.04	0.58	0.17	0.16	0.02	0.02	0.90
X101606		2.21	63.8	13.60	5.47	4.05	3.19	3.32	2.08	0.02	0.42	0.10	0.10	0.02	0.02	0.76
X101607		2.59	53.0	13.05	9.94	8.67	9.64	2.22	0.49	0.07	0.58	0.18	0.13	0.01	0.01	1.21
X101608		2.49	53.5	12.65	9.81	9.38	9.23	2.13	0.73	0.06	0.59	0.19	0.14	0.01	0.01	1.10
X101609		2.49	55.4	13.25	9.73	8.87	9.40	2.30	0.66	0.06	0.63	0.18	0.15	0.01	0.01	0.95
X101610		2.41	54.9	13.45	9.34	7.54	9.02	2.34	0.64	0.06	0.59	0.15	0.12	0.01	0.01	1.13
X101611		0.08	47.8	12.95	21.3	6.39	6.90	2.27	0.67	0.04	1.31	0.20	0.17	0.03	0.02	1.17

***** 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 TB18073791

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
X101574		101.81	0.03	0.03	549	26.8	10	0.73	3.94	2.40	0.96	17.3	4.05	<5	3.5	0.80
X101575		101.14	0.06	9.11	137.0	24.9	130	1.00	3.73	2.10	1.12	15.3	3.96	<5	1.7	0.71
X101576		100.93	0.04	0.75	238	26.1	170	1.47	3.84	1.99	1.19	21.1	3.86	<5	2.4	0.74
X101577		101.07	0.04	10.70	148.5	22.1	110	1.35	2.59	1.28	0.72	12.4	3.04	<5	1.7	0.55
X101578		99.76	0.09	14.95	80.6	7.4	30	0.54	0.90	0.52	0.37	5.4	0.75	<5	1.0	0.18
X101579		99.75	0.10	18.05	108.0	14.0	90	0.77	1.85	1.10	0.63	9.6	1.79	<5	1.2	0.40
X101580		99.97	0.06	16.30	89.7	13.5	50	2.61	1.04	0.48	0.42	9.1	1.15	<5	1.5	0.20
X101581		100.43	0.04	7.65	172.0	21.2	150	2.96	2.55	1.19	0.84	14.0	2.53	<5	1.7	0.51
X101582		99.92	0.04	0.20	264	32.5	150	3.12	3.33	1.74	1.30	22.1	3.85	<5	2.8	0.61
X101583		98.35	0.04	0.78	216	27.9	130	2.28	3.23	1.66	1.01	19.8	3.44	<5	2.9	0.63
X101584		98.95	0.03	0.04	200	24.2	190	1.50	3.83	2.09	1.15	18.1	3.77	<5	2.2	0.70
X101585		99.45	0.09	0.05	199.5	18.2	100	4.19	1.81	0.78	0.64	18.4	2.12	<5	2.4	0.30
X101586		99.24	0.06	0.04	209	26.7	160	2.00	3.03	1.77	1.09	18.2	3.52	<5	3.2	0.61
X101587		99.36	0.05	0.03	130.5	18.3	240	0.28	3.61	2.03	0.92	17.4	3.76	<5	2.0	0.75
X101588		99.26	0.09	0.05	151.0	20.2	210	0.91	3.66	1.93	1.05	17.5	3.62	<5	1.9	0.75
X101589		99.44	0.03	0.05	165.5	22.4	200	1.37	3.12	1.78	1.31	18.2	3.70	<5	1.9	0.70
X101590		101.19	0.03	0.10	225	21.3	170	2.24	3.01	1.44	1.06	17.8	3.18	<5	1.1	0.63
X101591		99.77	0.03	0.16	178.5	21.8	190	1.30	2.76	1.72	1.21	18.9	3.12	<5	2.1	0.58
X101592		96.06	0.03	0.21	169.5	21.2	290	1.51	3.13	1.82	1.16	18.8	3.29	<5	1.6	0.60
X101593		100.30	0.03	0.23	196.0	27.8	340	1.73	3.38	1.87	1.01	17.4	3.29	<5	3.2	0.60
X101594		100.46	0.24	2.54	279	18.1	750	0.42	2.75	1.33	0.81	11.0	2.80	<5	2.0	0.55
X101595		98.60	0.06	0.06	168.0	22.3	350	1.40	3.25	1.73	0.94	16.9	3.10	<5	1.9	0.66
X101596		100.39	0.03	0.19	230	25.8	180	5.84	2.75	1.64	1.17	18.2	3.25	<5	2.8	0.56
X101597		100.59	0.02	0.02	137.0	23.3	180	2.80	3.54	2.04	1.11	21.0	3.69	<5	1.6	0.70
X101598		98.03	0.04	0.03	133.5	29.1	170	2.27	3.98	2.18	1.42	21.7	4.37	<5	1.4	0.84
X101599		100.23	0.02	0.02	104.0	23.9	150	3.60	3.87	2.00	1.17	20.9	4.17	<5	1.6	0.79
X101600		98.84	0.03	0.02	115.5	28.9	150	0.74	4.07	2.18	1.09	22.0	4.02	<5	2.8	0.84
X101601		98.58	0.04	0.02	146.5	21.6	120	1.78	2.79	1.58	0.98	21.1	3.13	<5	2.2	0.59
X101602		101.59	0.02	0.05	208	18.1	110	2.01	1.66	0.99	0.65	20.2	2.34	<5	2.3	0.34
X101603		101.63	0.03	0.39	282	29.5	110	2.45	3.27	1.81	1.27	21.3	3.94	<5	2.4	0.73
X101604		100.87	0.03	0.09	306	27.0	220	2.96	2.75	1.69	1.03	20.9	3.40	<5	2.1	0.62
X101605		99.98	0.03	0.02	167.0	21.0	260	2.15	2.96	1.89	1.04	19.4	3.25	<5	1.9	0.58
X101606		96.95	0.05	0.03	196.0	19.6	120	4.92	2.33	1.29	0.64	19.5	2.63	<5	3.2	0.42
X101607		99.20	0.03	0.01	96.0	18.7	530	1.45	3.31	1.88	0.86	16.8	3.28	<5	1.6	0.72
X101608		99.53	0.04	0.01	129.0	20.9	430	1.49	3.38	1.61	0.83	16.5	3.36	<5	2.0	0.70
X101609		101.60	0.04	0.01	110.5	21.6	470	2.00	3.30	2.02	0.81	16.8	3.62	<5	2.6	0.74
X101610		99.30	0.04	0.01	118.0	21.2	490	1.53	3.28	1.96	0.83	17.8	3.40	<5	2.7	0.71
X101611		101.22	0.09	1.72	208	26.8	240	1.02	2.66	1.59	1.13	16.6	2.91	<5	2.4	0.54

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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 TB18073791

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
X101574		12.1	0.42	3.2	16.6	3.65	26.7	3.93	1	460	0.2	0.55	2.72	0.42	1.01	156
X101575		11.5	0.24	3.7	15.5	3.26	16.6	3.40	1	177.5	0.2	0.54	1.08	0.24	0.45	109
X101576		11.7	0.29	3.7	16.0	3.46	26.2	3.95	1	236	0.2	0.62	1.85	0.30	0.36	163
X101577		10.5	0.15	2.7	11.7	2.67	23.0	2.65	1	140.0	0.2	0.44	1.70	0.19	0.62	66
X101578		3.9	0.10	1.0	3.9	0.87	13.9	0.91	1	46.4	<0.1	0.12	1.47	0.08	0.64	20
X101579		6.6	0.14	1.1	8.1	1.80	14.9	1.90	1	88.0	<0.1	0.32	0.65	0.15	0.19	46
X101580		6.5	0.09	2.3	6.6	1.58	30.4	1.37	1	60.2	0.2	0.19	1.91	0.08	0.98	25
X101581		10.2	0.17	4.0	11.5	2.67	22.3	2.87	1	161.5	0.2	0.37	1.36	0.20	0.36	103
X101582		15.2	0.27	9.5	17.2	3.91	33.7	3.72	2	242	0.7	0.57	2.32	0.26	0.83	177
X101583		13.1	0.25	7.9	14.6	3.54	32.8	3.38	1	221	0.6	0.45	3.20	0.24	1.57	120
X101584		10.8	0.26	4.4	14.0	3.16	20.8	3.30	1	187.5	0.4	0.55	1.31	0.27	0.58	152
X101585		8.2	0.14	6.2	9.5	2.25	81.2	2.12	1	148.0	0.5	0.30	4.74	0.14	3.07	64
X101586		12.6	0.30	6.7	14.9	3.27	24.8	2.99	1	240	0.4	0.49	1.51	0.28	0.40	132
X101587		7.6	0.30	4.7	11.6	2.53	10.3	3.04	1	307	0.2	0.54	0.54	0.32	0.23	192
X101588		8.9	0.27	4.8	13.8	2.70	24.7	3.09	1	248	0.2	0.57	0.75	0.26	0.20	164
X101589		10.1	0.29	4.6	14.1	2.94	17.4	3.22	1	232	0.3	0.48	0.68	0.30	0.22	155
X101590		9.5	0.26	4.2	13.1	2.89	23.1	3.49	1	201	0.2	0.49	0.47	0.25	0.18	143
X101591		10.1	0.19	5.0	12.9	2.84	15.5	2.72	1	226	0.3	0.46	0.86	0.25	0.24	145
X101592		9.9	0.25	4.6	12.7	2.70	18.4	3.07	1	242	0.3	0.48	0.69	0.24	0.46	166
X101593		12.8	0.24	4.7	14.7	3.45	23.3	3.31	1	188.0	0.3	0.47	2.71	0.29	0.48	130
X101594		8.6	0.19	6.1	10.5	2.28	5.1	2.56	2	62.7	0.3	0.41	1.71	0.23	0.93	182
X101595		10.3	0.26	4.5	13.5	2.84	21.2	3.23	1	176.5	0.2	0.40	1.32	0.31	0.42	154
X101596		11.9	0.25	6.4	14.1	3.21	47.2	2.96	1	205	0.5	0.43	4.01	0.25	1.15	132
X101597		10.4	0.27	5.9	15.3	2.99	23.2	3.60	1	203	0.4	0.58	0.79	0.30	0.61	171
X101598		13.6	0.29	6.7	18.0	3.94	13.1	4.20	1	242	0.3	0.66	1.20	0.33	0.14	175
X101599		10.7	0.31	6.7	15.5	3.24	26.5	3.63	1	191.5	0.4	0.62	0.81	0.29	0.59	161
X101600		13.0	0.30	7.3	15.5	3.67	10.0	3.48	1	205	0.4	0.66	0.80	0.34	0.28	154
X101601		9.8	0.25	6.0	12.7	2.91	47.2	2.85	1	173.0	0.3	0.53	2.90	0.26	1.79	116
X101602		8.4	0.14	4.8	9.8	2.29	68.5	2.40	1	187.5	0.3	0.33	4.43	0.15	3.41	63
X101603		13.2	0.27	6.2	15.5	4.03	35.8	3.44	1	253	0.5	0.61	2.51	0.24	1.35	104
X101604		13.2	0.27	5.7	13.9	3.30	24.6	2.83	1	268	0.4	0.53	1.29	0.23	0.39	133
X101605		9.1	0.24	3.9	12.2	2.81	26.7	2.84	1	205	0.3	0.52	0.92	0.26	0.61	143
X101606		8.9	0.18	6.2	10.3	2.48	78.2	2.33	1	158.5	0.5	0.35	5.06	0.21	3.67	80
X101607		8.1	0.29	3.9	11.3	2.53	16.5	2.54	1	154.0	0.2	0.50	0.60	0.24	0.25	162
X101608		9.1	0.28	4.4	11.3	2.64	27.8	2.63	1	153.5	0.2	0.50	0.97	0.26	0.25	151
X101609		9.4	0.26	4.3	11.9	2.70	21.9	2.81	1	154.5	0.2	0.57	1.49	0.27	0.33	161
X101610		9.5	0.27	4.5	12.1	2.82	22.1	2.68	2	166.5	0.2	0.53	0.93	0.28	0.28	170
X101611		11.9	0.18	6.7	13.4	3.15	16.2	2.88	4	255	0.5	0.45	1.78	0.19	0.81	120

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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 TB18073791

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
X101574		6	21.5	2.79	131	0.9	0.05	0.007	0.010	0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
X101575		1	17.5	1.68	69	4.4	0.19	0.012	0.008	0.001	0.09	0.8	0.08	0.09	<0.5	0.5
X101576		1	19.7	2.01	86	2.9	0.02	0.008	0.010	0.001	0.07	0.3	0.02	0.22	<0.5	<0.5
X101577		1	12.5	1.37	66	2.1	0.22	0.012	0.012	0.001	0.07	0.7	0.06	0.29	<0.5	0.5
X101578		1	6.2	0.53	41	4.1	0.30	0.013	0.012	0.002	0.08	1.0	0.09	0.11	<0.5	1.1
X101579		1	9.9	1.00	47	5.8	0.39	0.016	0.012	0.002	0.09	1.1	0.07	0.13	0.5	1.1
X101580		1	5.6	0.53	40	6.7	0.27	0.024	0.010	0.001	0.10	0.8	0.02	0.14	<0.5	0.7
X101581		2	11.8	1.13	67	41.0	0.16	<0.005	0.007	0.002	0.10	0.9	0.04	0.17	<0.5	0.6
X101582		1	15.8	1.71	112	4.3	0.04	<0.005	0.007	0.001	0.12	<0.2	0.01	0.25	<0.5	<0.5
X101583		1	15.5	1.53	102	2.9	0.09	0.006	0.009	<0.001	0.10	0.2	0.01	0.14	<0.5	0.5
X101584		1	17.1	1.86	81	1.8	0.03	<0.005	0.007	<0.001	0.06	<0.2	0.01	0.12	<0.5	<0.5
X101585		1	8.1	0.80	64	2.4	0.09	<0.005	0.010	<0.001	0.10	<0.2	<0.01	0.18	<0.5	<0.5
X101586		1	15.4	1.96	133	2.7	0.03	<0.005	0.007	<0.001	0.07	0.2	<0.01	0.10	<0.5	<0.5
X101587		1	17.5	1.91	77	2.3	0.02	<0.005	0.005	0.001	0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101588		1	17.9	1.98	84	2.5	0.03	<0.005	0.008	0.001	0.08	<0.2	0.01	0.05	<0.5	<0.5
X101589		1	16.5	2.11	80	1.3	0.02	<0.005	0.008	<0.001	0.06	<0.2	<0.01	0.09	<0.5	<0.5
X101590		1	15.0	1.61	48	2.5	0.04	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
X101591		1	14.7	1.63	74	2.0	0.03	<0.005	0.008	<0.001	0.07	<0.2	0.01	0.12	<0.5	<0.5
X101592		1	15.2	1.82	62	1.9	0.04	<0.005	0.006	0.001	0.05	<0.2	0.01	0.12	<0.5	<0.5
X101593		1	15.6	1.76	116	2.2	0.03	<0.005	0.007	<0.001	0.08	<0.2	0.01	0.17	<0.5	<0.5
X101594		1	13.3	1.44	80	47.4	0.33	0.111	0.048	0.017	1.52	11.0	1.31	0.06	2.8	0.8
X101595		1	16.0	2.06	69	4.2	0.02	<0.005	0.006	<0.001	0.07	<0.2	<0.01	0.09	<0.5	<0.5
X101596		1	14.9	1.93	109	1.8	0.07	<0.005	0.007	0.001	0.06	<0.2	0.02	0.20	<0.5	<0.5
X101597		1	18.1	1.80	56	1.1	0.05	<0.005	0.007	0.001	0.06	<0.2	0.01	0.08	<0.5	<0.5
X101598		2	19.7	1.94	52	0.8	0.02	<0.005	0.006	0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
X101599		1	18.8	2.21	68	0.8	0.04	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
X101600		1	20.4	2.04	113	1.0	0.02	<0.005	0.005	<0.001	0.05	<0.2	0.01	0.02	<0.5	<0.5
X101601		1	15.5	1.71	67	0.7	0.03	<0.005	0.006	<0.001	0.05	<0.2	0.01	0.06	<0.5	<0.5
X101602		1	9.2	0.88	63	1.0	0.03	<0.005	<0.005	<0.001	0.05	<0.2	0.01	0.08	<0.5	<0.5
X101603		1	17.7	1.76	81	2.4	0.07	<0.005	0.009	<0.001	0.08	<0.2	0.01	0.10	<0.5	<0.5
X101604		1	15.3	1.70	79	2.1	0.03	<0.005	0.006	<0.001	0.06	<0.2	<0.01	0.09	<0.5	<0.5
X101605		1	16.0	1.38	66	1.9	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
X101606		2	12.0	1.33	89	1.4	0.04	<0.005	0.007	<0.001	0.07	<0.2	<0.01	0.18	<0.5	<0.5
X101607		<1	16.4	1.71	63	1.0	0.03	<0.005	<0.005	0.001	0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101608		1	16.6	1.83	78	1.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101609		1	17.8	1.84	99	2.3	0.04	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101610		1	17.1	1.77	116	1.4	0.03	<0.005	<0.005	<0.001	0.07	<0.2	<0.01	0.03	<0.5	<0.5
X101611		4	12.8	1.25	99	3.5	0.77	0.007	0.061	0.005	0.32	4.1	0.52	0.09	2.0	0.9

***** 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 TB18073791

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
X101574		13	94	10	3	8	8	18	62	0.017	<0.005	0.002	0.034
X101575		62	129	20	1	90	11	19	125	0.093	<0.005	0.002	0.733
X101576		23	28	40	<1	97	6	26	180	0.001	<0.005	0.001	0.265
X101577		13	214	20	3	110	7	14	150	0.084	<0.005	0.001	0.546
X101578		66	291	10	2	133	7	3	135	0.043	0.011	0.005	0.007
X101579		117	325	20	2	155	5	11	138	0.017	<0.005	0.002	0.015
X101580		88	294	10	<1	145	10	4	88	0.009	<0.005	0.001	0.006
X101581		17	155	30	1	101	5	16	136	0.008	<0.005	0.001	0.773
X101582		25	28	40	<1	104	7	17	105	0.001	<0.005	0.001	0.105
X101583		17	31	30	<1	100	8	19	125	0.001	<0.005	0.001	0.194
X101584		30	6	30	1	154	5	24	94	<0.001	<0.005	0.001	0.027
X101585		13	17	30	<1	68	17	10	62	0.001	<0.005	0.001	0.025
X101586		29	19	30	1	129	4	20	110	0.001	<0.005	0.002	0.035
X101587		38	5	10	1	192	4	26	111	<0.001	<0.005	0.002	0.036
X101588		34	12	20	1	169	6	26	123	<0.001	<0.005	0.002	0.046
X101589		32	10	30	<1	127	<2	24	114	<0.001	<0.005	0.001	0.040
X101590		30	17	30	<1	139	7	22	128	<0.001	<0.005	0.002	0.055
X101591		30	26	30	1	134	<2	21	109	0.001	<0.005	0.002	0.091
X101592		38	17	30	1	183	<2	22	117	<0.001	<0.005	0.002	0.067
X101593		34	42	40	1	201	4	22	97	<0.001	<0.005	0.002	0.068
X101594		148	5440	40	2	2090	8	24	79	0.344	0.709	0.367	10.20
X101595		38	19	40	<1	202	<2	22	99	0.001	<0.005	0.002	0.059
X101596		28	48	50	5	120	3	17	97	<0.001	<0.005	0.001	0.062
X101597		32	6	20	1	119	<2	21	103	<0.001	<0.005	0.001	0.035
X101598		32	12	20	1	97	<2	23	110	<0.001	<0.005	<0.001	0.040
X101599		29	5	30	<1	80	<2	20	101	<0.001	<0.005	<0.001	0.029
X101600		28	7	30	<1	77	<2	20	98	<0.001	<0.005	<0.001	0.045
X101601		21	6	30	<1	61	8	15	79	<0.001	<0.005	<0.001	0.047
X101602		15	12	20	1	62	15	11	59	<0.001	<0.005	0.001	0.020
X101603		26	144	40	<1	87	7	19	99	0.007	<0.005	0.001	0.075
X101604		32	45	50	1	135	<2	18	103	0.001	<0.005	0.002	0.043
X101605		34	1	40	<1	223	<2	22	98	0.003	<0.005	0.002	0.036
X101606		18	19	40	<1	78	15	12	60	<0.001	<0.005	0.001	0.029
X101607		41	19	30	<1	274	<2	23	93	0.002	<0.005	0.005	0.037
X101608		41	19	30	<1	251	<2	23	95	<0.001	<0.005	0.002	0.033
X101609		41	17	30	<1	262	<2	25	94	0.001	<0.005	0.004	0.047
X101610		41	16	30	2	258	<2	22	93	0.001	<0.005	0.003	0.032
X101611		112	4450	20	4	4300	22	12	106	0.095	0.283	0.580	4.51

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

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Finalized Date: 22-APR-2018
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CERTIFICATE OF ANALYSIS TB18073791

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		