ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

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

Finalized Date: 19-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18070717

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-MAR-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 TB18070717

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
X101222		0.04	61.4	16.55	6.06	6.12	2.75	3.33	1.49	<0.01	0.49	0.12	0.15	0.06	0.07	1.03
X101223		0.08	41.7	9.16	15.35	15.80	11.05	0.62	0.23	0.11	0.71	0.15	0.13	<0.01	0.03	4.17
X101224		2.41	45.5	14.35	9.88	10.70	14.90	1.00	0.79	0.13	0.13	0.15	0.02	0.03	0.01	2.92
X101225		2.33	47.0	10.40	10.80	11.10	16.15	0.86	0.53	0.19	0.20	0.18	0.02	0.02	0.01	2.83
X101226		2.48	47.2	8.51	11.95	10.65	18.15	0.69	0.29	0.22	0.23	0.20	0.02	0.01	0.01	1.93
X101227		2.38	46.7	7.88	11.80	10.65	17.95	0.60	0.32	0.23	0.24	0.20	0.02	0.01	0.01	2.31
X101228		2.58	46.8	7.89	11.65	11.05	17.50	0.64	0.36	0.23	0.24	0.20	0.02	0.01	0.01	2.96
X101229		2.42	47.2	7.67	11.75	10.75	17.95	0.58	0.44	0.24	0.26	0.20	0.02	0.01	0.01	2.20
X101230		2.56	49.1	7.50	11.90	11.10	17.65	0.78	0.45	0.24	0.27	0.20	0.03	0.01	0.01	2.30
X101231		2.66	46.6	7.62	11.40	10.75	16.95	0.56	0.42	0.23	0.24	0.19	0.02	0.01	0.01	3.07
X101232		2.23	47.8	6.67	11.90	10.65	17.20	0.59	0.32	0.24	0.28	0.20	0.03	<0.01	0.01	3.01
X101233		2.71	48.4	6.50	11.55	11.10	16.35	0.71	0.30	0.24	0.27	0.20	0.02	0.01	0.01	2.62
X101234		2.50	50.3	7.57	11.40	11.80	16.00	0.83	0.49	0.25	0.34	0.20	0.05	0.01	0.01	2.21
X101235		2.33	49.7	7.09	11.20	11.75	15.85	0.66	0.40	0.26	0.31	0.19	0.04	0.01	0.01	2.65
X101236		2.60	47.8	6.88	11.30	11.45	16.35	0.66	0.36	0.26	0.27	0.20	0.03	0.01	0.01	2.94
X101237		2.41	47.7	6.39	11.30	11.30	16.65	0.58	0.37	0.27	0.28	0.20	0.03	<0.01	0.01	3.18
X101238		2.50	49.2	7.10	11.50	11.70	16.85	0.51	0.32	0.28	0.28	0.20	0.01	0.01	0.01	2.97
X101239		2.57	48.1	6.92	11.20	11.90	16.75	0.54	0.40	0.29	0.28	0.20	0.02	0.01	0.01	2.41
X101240		2.42	48.3	7.20	10.95	11.90	16.15	0.69	0.41	0.29	0.27	0.20	0.02	0.01	0.01	2.35
X101241		2.83	49.7	6.56	11.65	12.50	16.90	0.48	0.36	0.30	0.29	0.20	0.02	0.01	0.01	2.26
X101242		0.08	47.1	13.05	21.0	6.38	6.68	2.12	0.62	0.03	1.24	0.19	0.14	0.03	0.02	1.14
X101243		1.23	55.9	13.00	9.20	8.61	7.79	2.60	0.82	0.12	0.68	0.15	0.18	0.04	0.03	1.28
X101244		1.57	51.0	23.3	2.93	9.97	2.46	4.12	0.58	0.01	0.13	0.05	0.03	0.10	0.01	2.75
X101245		1.44	51.6	24.1	2.67	9.88	2.10	4.28	0.62	0.01	0.18	0.05	0.04	0.09	0.02	3.26
X101246		1.92	52.6	23.6	3.32	10.55	2.52	4.02	0.52	0.01	0.17	0.05	0.04	0.09	0.02	3.90
X101247		2.17	52.9	24.1	3.08	10.80	2.49	4.08	0.35	0.01	0.16	0.05	0.03	0.09	0.01	3.27
X101248		1.99	52.8	24.5	2.95	10.55	2.41	4.19	0.41	0.01	0.16	0.05	0.03	0.09	0.01	3.20
X101249		1.84	52.3	24.1	2.88	10.85	2.41	4.17	0.26	0.01	0.17	0.05	0.08	0.09	0.01	1.94
X101250		2.13	53.9	24.4	2.89	10.75	2.50	4.33	0.23	0.01	0.16	0.05	0.03	0.09	0.01	1.82
X101251		1.99	53.0	23.7	3.02	10.90	2.47	4.23	0.38	0.01	0.19	0.05	0.03	0.09	0.01	1.92
X101252		1.64	52.7	23.3	3.21	10.40	2.49	4.15	0.37	0.01	0.20	0.05	0.06	0.09	0.01	2.18
X101253		2.50	61.2	15.15	8.09	5.52	1.93	3.80	1.24	<0.01	0.95	0.11	0.32	0.04	0.04	0.96
X101254		2.16	53.7	22.9	5.23	10.15	1.84	4.01	0.53	0.01	0.32	0.07	0.07	0.05	0.02	1.47
X101255		2.10	54.6	23.5	5.37	10.50	1.92	3.79	0.46	0.01	0.31	0.08	0.04	0.05	0.02	1.14
X101256		2.17	52.9	23.5	5.25	10.60	1.91	3.96	0.35	0.01	0.30	0.08	0.06	0.06	0.02	0.83
X101257		2.11	53.6	23.7	5.37	10.40	1.92	4.00	0.43	0.01	0.32	0.08	0.03	0.05	0.02	1.51
X101258		2.13	53.2	22.8	5.34	10.25	1.95	3.70	0.37	0.01	0.31	0.08	0.04	0.05	0.02	0.92
X101259		2.15	53.5	22.7	5.39	10.45	1.98	3.67	0.42	0.01	0.31	0.08	0.08	0.05	0.02	1.13
X101260		2.16	53.5	22.7	5.42	10.25	1.92	3.64	0.42	0.01	0.32	0.08	0.04	0.05	0.02	1.03
X101261		2.25	53.3	22.8	5.43	10.10	1.92	3.62	0.71	0.01	0.29	0.07	0.05	0.05	0.02	2.39

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Finalized Date: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101222		99.62	0.05	0.01	614	30.9	10	0.61	3.85	2.60	0.90	17.2	4.04	<5	4.1	0.88
X101223		99.21	0.23	2.52	327	21.9	910	0.35	2.81	1.72	0.81	11.8	3.13	<5	2.3	0.62
X101224		100.51	0.09	<0.01	110.5	3.3	1000	1.25	0.62	0.32	0.28	11.2	0.57	<5	0.2	0.11
X101225		100.29	0.10	0.01	75.8	4.8	1500	1.05	0.95	0.51	0.30	9.5	1.07	<5	0.4	0.21
X101226		100.06	0.09	<0.01	56.6	5.2	1700	0.47	1.12	0.64	0.40	8.5	1.11	<5	0.4	0.22
X101227		98.92	0.11	0.01	79.1	6.7	1970	0.89	1.37	0.72	0.48	9.5	1.14	<5	0.6	0.29
X101228		99.56	0.13	0.01	56.3	5.5	1620	0.88	1.02	0.68	0.32	7.7	1.36	<5	0.5	0.21
X101229		99.28	0.09	<0.01	88.2	6.1	1860	0.84	1.26	0.75	0.38	8.0	1.18	<5	0.5	0.24
X101230		101.54	0.13	0.02	87.3	6.5	1890	0.84	1.17	0.70	0.43	8.5	1.23	<5	0.6	0.29
X101231		98.07	0.14	0.01	98.6	6.7	1800	1.05	1.21	0.73	0.43	9.5	1.26	<5	1.0	0.25
X101232		98.90	0.17	<0.01	96.1	6.9	1840	0.84	1.17	0.67	0.39	7.8	1.40	<5	0.6	0.28
X101233		98.28	0.18	<0.01	67.8	6.6	1800	0.91	1.30	0.66	0.38	7.5	1.34	<5	0.6	0.29
X101234		101.46	0.13	0.01	128.5	11.0	1930	0.42	1.44	1.00	0.50	9.5	1.81	<5	1.0	0.32
X101235		100.12	0.14	<0.01	106.5	9.0	2100	0.23	1.54	0.87	0.49	9.1	1.78	<5	0.8	0.33
X101236		98.52	0.19	<0.01	90.0	8.3	1970	0.32	1.19	0.67	0.40	8.3	1.74	<5	0.6	0.30
X101237		98.26	0.24	<0.01	88.4	7.0	2010	0.28	1.42	0.69	0.38	7.5	1.41	<5	0.6	0.26
X101238		100.94	0.15	0.01	68.0	6.8	2000	0.48	1.34	0.83	0.36	8.5	1.34	<5	1.0	0.26
X101239		99.03	0.12	0.01	72.5	6.0	2070	0.62	1.16	0.83	0.33	7.7	1.42	<5	0.5	0.26
X101240		98.75	0.10	0.01	77.7	8.7	2270	0.56	1.32	0.91	0.49	8.6	1.59	<5	0.7	0.28
X101241		101.24	0.12	0.01	60.6	6.6	2220	0.37	1.23	0.77	0.41	7.6	1.50	<5	0.6	0.26
X101242		99.74	0.09	1.65	234	28.5	270	0.90	2.74	1.52	1.25	16.4	2.89	<5	2.5	0.62
X101243		100.40	0.06	0.03	256	50.3	900	0.79	2.97	1.81	1.02	16.2	3.80	<5	4.1	0.65
X101244		97.44	0.35	<0.01	122.5	7.1	100	0.84	0.65	0.31	0.44	17.4	0.86	<5	0.5	0.12
X101245		98.90	0.45	<0.01	148.0	6.9	80	0.96	0.39	0.29	0.33	19.4	0.67	<5	0.4	0.11
X101246		101.41	0.63	<0.01	165.5	7.8	90	1.28	0.63	0.37	0.38	19.2	0.91	<5	0.4	0.12
X101247		101.42	0.51	<0.01	103.5	6.2	80	0.83	0.47	0.35	0.43	18.0	0.52	<5	0.2	0.10
X101248		101.36	0.49	<0.01	110.0	6.6	60	0.90	0.47	0.24	0.37	18.7	0.55	<5	0.4	0.08
X101249		99.32	0.27	<0.01	93.0	7.8	60	0.72	0.62	0.41	0.58	19.2	0.69	<5	0.2	0.15
X101250		101.17	0.22	<0.01	89.3	6.6	60	0.61	0.60	0.37	0.41	19.6	0.58	<5	0.2	0.14
X101251		100.00	0.22	<0.01	108.5	8.3	60	0.71	0.63	0.34	0.55	20.1	0.78	<5	0.7	0.16
X101252		99.22	0.29	<0.01	112.5	8.7	50	0.95	0.66	0.42	0.42	19.9	0.77	<5	0.4	0.17
X101253		99.35	0.09	0.07	399	74.8	20	1.50	4.32	2.38	1.61	20.4	5.68	<5	6.5	0.89
X101254		100.37	0.09	0.01	185.0	13.5	40	0.46	1.09	0.81	0.66	21.3	1.35	<5	1.1	0.26
X101255		101.79	0.11	<0.01	176.5	12.1	40	0.52	1.28	0.73	0.63	22.4	1.38	<5	0.8	0.20
X101256		99.83	0.07	<0.01	162.0	12.9	40	0.36	1.23	0.80	0.67	22.4	1.51	<5	1.1	0.26
X101257		101.44	0.16	<0.01	175.0	12.2	40	0.39	1.05	0.57	0.66	22.0	0.97	<5	0.7	0.24
X101258		99.04	0.06	0.03	165.5	12.7	40	0.50	1.31	0.85	0.69	20.9	1.15	<5	1.2	0.24
X101259		99.79	0.08	0.04	172.0	13.7	40	0.57	1.36	0.69	0.73	22.1	1.52	<5	1.1	0.25
X101260		99.40	0.08	0.06	162.5	12.4	40	0.65	1.11	0.68	0.61	21.2	1.21	<5	1.1	0.29
X101261		100.76	0.20	0.05	203	12.6	30	0.92	1.21	0.67	0.64	20.1	1.26	<5	0.9	0.21

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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
X101222		13.4	0.48	3.5	17.8	4.11	28.1	4.52	1	507	0.2	0.63	3.00	0.42	1.54	161
X101223		10.6	0.25	7.2	11.7	2.77	5.5	2.85	2	72.8	0.3	0.43	2.14	0.23	1.09	208
X101224		1.4	0.05	0.2	2.3	0.44	27.3	0.57	1	264	<0.1	0.12	0.15	0.06	0.05	110
X101225		1.9	0.09	0.3	3.5	0.69	17.4	1.04	<1	201	<0.1	0.16	0.38	0.08	0.08	150
X101226		2.0	0.08	0.3	3.8	0.85	8.2	1.12	1	138.5	<0.1	0.18	0.24	0.09	0.06	162
X101227		2.7	0.10	0.4	4.7	1.00	11.9	1.40	<1	122.5	<0.1	0.18	0.30	0.12	0.08	169
X101228		2.2	0.07	0.4	3.7	0.78	10.9	1.09	<1	88.9	<0.1	0.21	0.24	0.09	0.06	177
X101229		2.5	0.11	0.5	4.2	0.95	14.2	1.20	<1	113.5	<0.1	0.18	0.29	0.10	0.10	171
X101230		2.6	0.11	0.5	4.6	1.05	13.4	1.45	<1	102.0	<0.1	0.19	0.36	0.11	0.10	176
X101231		2.5	0.11	0.4	4.3	0.89	16.1	1.30	1	101.0	<0.1	0.19	0.30	0.09	0.11	177
X101232		2.8	0.09	0.7	4.9	1.04	8.0	1.26	1	60.4	<0.1	0.18	0.42	0.10	0.16	184
X101233		2.7	0.08	0.6	4.9	1.00	9.2	1.39	<1	80.7	<0.1	0.21	0.31	0.12	0.12	180
X101234		4.8	0.14	1.0	6.6	1.38	14.4	1.71	<1	146.0	<0.1	0.27	0.59	0.14	0.20	204
X101235		3.9	0.11	0.7	5.8	1.34	10.6	1.58	<1	115.5	<0.1	0.26	0.59	0.12	0.17	206
X101236		3.2	0.11	0.6	6.0	1.23	9.5	1.53	1	93.2	<0.1	0.24	0.41	0.09	0.12	190
X101237		2.7	0.12	0.5	4.9	1.11	8.3	1.29	<1	67.0	<0.1	0.24	0.36	0.10	0.11	192
X101238		2.6	0.10	0.5	4.6	0.95	10.4	1.34	<1	72.7	<0.1	0.24	0.49	0.13	0.13	194
X101239		2.1	0.10	0.4	4.2	0.84	12.3	1.20	2	87.9	<0.1	0.22	0.37	0.11	0.11	203
X101240		3.8	0.14	0.6	5.4	1.13	13.6	1.68	1	117.5	<0.1	0.22	0.73	0.13	0.22	199
X101241		2.6	0.13	0.5	5.0	0.96	12.9	1.35	<1	62.4	<0.1	0.23	0.32	0.11	0.11	213
X101242		12.9	0.22	7.7	13.9	3.35	17.4	3.25	4	283	0.4	0.46	1.69	0.21	0.49	133
X101243		24.2	0.26	5.3	22.8	5.95	25.7	4.54	1	342	0.3	0.56	3.98	0.26	0.80	162
X101244		4.1	0.05	0.3	3.6	0.82	16.4	0.78	1	917	0.1	0.11	0.70	0.06	0.39	49
X101245		3.9	0.03	0.5	3.1	0.79	17.8	0.76	1	882	0.1	0.07	0.49	0.05	0.18	46
X101246		4.2	0.06	0.4	3.9	0.95	15.7	0.92	<1	835	0.1	0.12	0.43	0.05	0.19	56
X101247		3.4	0.04	0.3	3.5	0.80	9.4	0.57	<1	774	0.1	0.09	0.34	0.04	0.15	52
X101248		3.5	0.03	0.3	3.1	0.74	13.0	0.65	<1	777	<0.1	0.08	0.33	0.05	0.14	51
X101249		4.2	0.04	0.4	3.9	0.96	7.2	0.92	<1	742	0.1	0.13	0.41	0.03	0.14	52
X101250		3.5	0.04	0.3	3.5	0.76	6.5	0.72	<1	844	<0.1	0.10	0.29	0.04	0.14	49
X101251		4.5	0.04	0.5	4.3	1.04	11.6	0.81	<1	832	0.1	0.12	0.44	0.06	0.16	55
X101252		4.8	0.06	0.5	4.2	1.05	10.7	0.87	<1	815	0.1	0.11	0.52	0.05	0.16	57
X101253		39.0	0.40	8.7	33.2	8.39	34.1	6.46	1	349	0.6	0.71	6.13	0.34	1.18	126
X101254		6.9	0.12	1.4	6.3	1.62	9.6	1.34	1	475	0.2	0.17	1.04	0.11	0.26	85
X101255		6.2	0.12	1.4	6.2	1.46	9.1	1.05	1	468	0.1	0.16	0.94	0.10	0.30	89
X101256		6.9	0.09	1.3	6.5	1.57	6.2	1.21	<1	488	0.1	0.21	1.00	0.11	0.25	85
X101257		6.3	0.11	1.3	6.2	1.47	8.9	1.16	<1	472	0.1	0.15	0.94	0.07	0.26	88
X101258		6.5	0.10	1.5	6.4	1.53	7.5	1.21	<1	466	0.1	0.17	1.00	0.11	0.24	91
X101259		7.0	0.12	1.2	7.1	1.58	8.8	1.33	<1	475	0.1	0.19	1.14	0.10	0.29	89
X101260		6.7	0.12	1.4	6.4	1.51	9.5	1.44	<1	474	0.1	0.20	0.93	0.11	0.27	89
X101261		6.7	0.11	1.3	6.4	1.58	21.4	1.40	<1	449	0.1	0.17	0.92	0.11	0.27	86

***** 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: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
X101222		6	23.6	2.70	136	0.8	0.05	<0.005	0.008	<0.001	0.12	<0.2	0.01	0.04	<0.5	<0.5
X101223		1	15.7	1.63	81	43.1	0.31	0.112	0.050	0.015	1.54	11.7	1.18	0.05	3.0	0.6
X101224		1	3.1	0.37	7	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
X101225		<1	5.1	0.49	11	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101226		<1	5.5	0.61	13	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101227		<1	6.8	0.69	16	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.11	<0.5	<0.5
X101228		<1	5.4	0.67	13	0.6	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101229		2	6.5	0.69	15	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101230		<1	6.9	0.72	21	0.7	0.09	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
X101231		<1	6.5	0.70	33	0.6	0.03	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
X101232		<1	6.8	0.73	17	0.3	0.04	0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101233		<1	6.7	0.78	17	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101234		<1	8.4	1.00	31	0.2	0.02	<0.005	<0.005	0.010	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X101235		<1	8.4	0.94	24	0.1	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101236		<1	7.1	0.80	16	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101237		<1	6.8	0.81	15	<0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101238		1	6.7	0.82	30	0.2	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101239		<1	6.6	0.75	15	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101240		2	7.6	0.78	20	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101241		<1	7.3	0.78	17	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101242		3	14.2	1.65	99	3.6	0.87	0.012	0.066	0.004	0.31	5.4	0.75	0.09	2.4	0.8
X101243		<1	16.2	1.65	152	0.2	0.02	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
X101244		<1	3.3	0.34	16	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101245		1	2.6	0.27	13	0.2	<0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101246		1	3.4	0.40	16	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101247		1	2.8	0.37	12	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101248		1	2.6	0.31	12	0.1	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
X101249		1	3.2	0.22	11	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
X101250		<1	3.0	0.33	9	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
X101251		1	3.6	0.31	20	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101252		<1	3.5	0.31	18	<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101253		<1	23.0	1.98	260	<0.1	0.03	<0.005	0.016	<0.001	<0.05	0.4	<0.01	0.16	<0.5	<0.5
X101254		2	6.5	0.67	43	0.2	0.01	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101255		<1	6.4	0.73	37	0.1	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101256		1	6.6	0.76	41	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101257		<1	6.2	0.64	26	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101258		1	6.8	0.65	44	0.3	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X101259		1	7.3	0.74	44	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101260		1	6.4	0.61	34	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.03	0.02	<0.5	<0.5
X101261		1	6.3	0.81	34	0.3	0.02	<0.005	0.006	<0.001	<0.05	0.3	0.02	0.02	<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: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101222		12	87	10	2	7	9	16	59	0.003	<0.005	0.002	0.041
X101223		138	5060	40	2	1945	6	23	73	0.104	0.699	0.361	9.89
X101224		73	6	20	1	423	<2	21	62	<0.001	<0.005	0.006	0.027
X101225		72	10	20	1	413	<2	32	61	<0.001	<0.005	0.007	0.027
X101226		80	11	10	1	488	<2	39	74	<0.001	<0.005	0.013	0.022
X101227		80	9	10	1	480	<2	42	67	<0.001	0.014	0.014	0.018
X101228		78	15	10	1	456	<2	41	67	<0.001	0.012	0.024	0.029
X101229		79	12	10	<1	466	<2	43	67	<0.001	<0.005	0.004	0.016
X101230		83	13	10	<1	474	<2	46	69	<0.001	<0.005	0.005	0.030
X101231		78	7	10	<1	461	<2	43	67	<0.001	<0.005	0.005	0.018
X101232		75	10	20	1	431	<2	46	84	<0.001	<0.005	0.007	0.017
X101233		72	5	10	1	394	<2	46	82	<0.001	<0.005	0.006	0.014
X101234		68	6	10	24	351	<2	48	69	<0.001	<0.005	0.005	0.020
X101235		67	3	10	1	359	<2	49	71	<0.001	<0.005	0.004	0.010
X101236		66	5	10	<1	373	<2	45	70	<0.001	0.005	0.009	0.013
X101237		70	5	20	<1	385	<2	48	75	<0.001	<0.005	0.006	0.014
X101238		71	10	20	1	386	<2	48	74	<0.001	<0.005	0.005	0.026
X101239		74	7	10	<1	395	<2	52	70	<0.001	<0.005	0.003	0.021
X101240		67	9	10	<1	367	2	49	69	<0.001	<0.005	0.003	0.020
X101241		73	9	10	1	394	<2	53	72	<0.001	<0.005	0.003	0.015
X101242		108	4220	20	4	4060	19	12	100	0.066	0.303	0.611	3.77
X101243		40	18	10	1	156	<2	29	75	<0.001	<0.005	0.003	0.028
X101244		15	<1	10	<1	46	<2	7	25	<0.001	0.011	0.006	<0.003
X101245		12	<1	10	2	34	<2	5	23	<0.001	0.007	0.005	<0.003
X101246		15	1	20	<1	37	2	6	28	<0.001	<0.005	0.003	<0.003
X101247		14	1	20	1	32	<2	6	25	<0.001	0.009	0.009	<0.003
X101248		13	3	10	<1	30	<2	6	25	<0.001	0.007	0.008	<0.003
X101249		13	3	10	<1	25	<2	6	22	<0.001	0.011	0.008	<0.003
X101250		12	1	10	<1	28	<2	6	21	<0.001	0.012	0.013	<0.003
X101251		14	1	10	1	28	<2	7	23	<0.001	<0.005	0.007	<0.003
X101252		14	1	10	<1	33	<2	7	25	<0.001	<0.005	0.007	<0.003
X101253		20	30	20	<1	13	4	13	92	<0.001	<0.005	0.001	0.040
X101254		17	10	10	<1	28	<2	8	34	<0.001	0.016	0.013	0.010
X101255		17	14	10	<1	26	<2	8	39	<0.001	<0.005	0.005	0.007
X101256		16	6	10	<1	24	<2	8	34	<0.001	0.005	0.008	0.008
X101257		17	8	10	<1	31	<2	8	32	0.001	0.046	0.018	0.011
X101258		16	43	10	<1	26	2	8	39	0.001	0.007	0.007	0.067
X101259		17	56	10	<1	28	3	9	43	0.003	0.010	0.007	0.095
X101260		17	71	10	<1	29	<2	8	42	0.006	0.014	0.013	0.102
X101261		17	51	20	<1	27	4	8	36	0.002	0.011	0.007	0.076

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

Finalized Date: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101262		0.04	63.0	16.55	5.85	6.12	2.72	3.28	1.47	<0.01	0.48	0.12	0.13	0.05	0.06	1.11
X101263		2.16	53.7	23.2	5.30	10.25	1.86	3.67	0.39	<0.01	0.30	0.07	0.04	0.05	0.02	1.29
X101264		2.14	54.5	23.5	5.19	10.45	1.88	3.71	0.41	0.01	0.30	0.07	0.05	0.05	0.02	1.21
X101265		2.09	53.8	22.7	5.06	10.10	1.78	3.66	0.53	0.01	0.30	0.07	0.04	0.05	0.02	1.55
X101266		2.15	53.0	23.0	4.91	9.80	1.81	3.59	0.83	<0.01	0.29	0.07	0.04	0.05	0.03	1.70
X101267		1.93	52.4	22.5	5.32	9.83	1.91	3.47	0.86	0.01	0.30	0.07	0.04	0.05	0.03	2.18
X101268		2.38	50.6	12.90	11.40	10.45	8.47	2.56	0.94	0.05	0.85	0.17	0.24	0.07	0.05	1.72
X101269		2.21	50.3	9.42	11.85	12.30	12.20	1.62	0.58	0.08	0.69	0.19	0.17	0.05	0.03	2.05
X101270		2.30	49.0	9.21	11.40	12.10	12.05	1.56	0.57	0.08	0.68	0.18	0.17	0.04	0.03	2.18
X101271		1.83	48.1	9.90	11.35	11.35	11.55	1.61	0.60	0.07	0.65	0.18	0.18	0.04	0.03	2.45
X101272		1.63	53.2	22.6	5.01	9.79	1.95	3.75	1.00	0.01	0.27	0.07	0.05	0.06	0.03	1.87
X101273		1.67	52.5	20.6	7.35	7.97	3.31	3.31	2.44	0.01	0.35	0.10	0.04	0.06	0.07	2.64
X101274		2.33	52.5	15.20	10.40	9.51	6.40	2.89	0.78	0.03	0.72	0.15	0.19	0.06	0.03	1.65
X101275		2.33	51.1	13.70	11.15	9.84	6.88	2.94	0.69	0.04	0.87	0.16	0.27	0.07	0.03	2.28
X101276		2.50	54.6	15.80	10.35	7.26	3.39	3.32	0.76	<0.01	0.83	0.14	0.19	0.03	0.03	1.94
X101277		1.30	51.8	23.6	5.49	10.15	1.79	4.12	0.49	<0.01	0.31	0.07	0.04	0.06	0.02	1.34
X101278		1.42	52.8	23.6	5.29	10.50	1.75	3.99	0.43	0.01	0.32	0.07	0.04	0.06	0.02	1.22
X101279		1.95	53.3	23.1	4.99	10.40	1.67	3.60	0.42	<0.01	0.29	0.07	0.03	0.05	0.02	1.16
X101280		2.06	53.8	23.2	4.92	10.05	1.66	4.17	0.67	0.01	0.31	0.07	0.05	0.05	0.03	2.13
X101281		2.07	54.1	23.3	5.13	10.45	1.78	3.94	0.33	0.01	0.31	0.07	0.05	0.05	0.02	1.15
X101282		0.08	42.8	9.09	15.00	16.10	10.80	0.62	0.23	0.11	0.69	0.15	0.12	<0.01	0.03	4.16
X101283		2.16	53.4	22.8	6.29	10.60	2.15	4.07	0.32	0.01	0.31	0.09	0.06	0.05	0.02	0.82
X101284		1.99	51.9	21.9	5.36	10.00	2.01	3.79	0.36	0.01	0.29	0.07	0.05	0.05	0.02	1.17
X101285		2.05	53.6	22.5	5.46	10.25	2.07	3.88	0.72	0.01	0.31	0.08	0.05	0.05	0.03	1.85
X101286		2.13	53.0	22.7	5.21	10.05	1.84	3.89	0.52	0.01	0.28	0.07	0.04	0.05	0.02	1.64
X101287		1.59	54.6	22.5	5.71	10.40	2.17	3.94	0.48	0.01	0.35	0.08	0.06	0.06	0.02	1.12
X101288		2.54	53.0	20.3	7.16	10.15	3.14	3.41	0.77	0.01	0.48	0.10	0.11	0.06	0.03	1.40
X101289		1.95	58.5	21.2	4.70	9.20	1.65	3.81	0.48	0.01	0.27	0.06	0.04	0.05	0.02	1.46
X101290		1.98	52.7	22.8	5.46	10.40	2.02	3.82	0.51	0.01	0.32	0.08	0.05	0.05	0.02	2.21
X101291		1.99	52.4	22.9	5.52	10.20	1.99	4.14	0.59	0.01	0.32	0.08	0.05	0.05	0.02	2.34
X101292		1.94	52.7	22.9	5.34	10.30	1.92	4.04	0.50	0.01	0.31	0.08	0.06	0.06	0.02	1.61
X101293		2.12	53.2	23.0	5.30	10.55	1.83	3.78	0.45	0.01	0.33	0.08	0.06	0.05	0.02	1.46
X101294		1.98	52.7	22.5	5.19	10.40	1.79	3.46	0.48	0.01	0.30	0.08	0.06	0.05	0.02	1.35
X101295		2.10	53.6	22.6	5.61	10.55	1.91	3.47	0.57	0.01	0.33	0.08	0.05	0.05	0.03	1.03
X101296		2.05	56.6	22.2	4.89	9.82	1.69	3.53	0.79	0.01	0.29	0.07	0.04	0.05	0.03	1.05
X101297		1.94	55.5	22.3	5.27	10.20	1.78	3.55	0.57	0.01	0.31	0.08	0.05	0.05	0.02	1.37
X101298		1.98	54.8	22.5	5.09	10.00	1.73	3.63	0.69	0.01	0.30	0.07	0.05	0.05	0.03	1.55
X101299		0.07	47.3	12.65	20.4	6.32	6.58	2.14	0.62	0.03	1.24	0.19	0.16	0.03	0.02	1.10

***** 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: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101262		100.94	0.04	<0.01	588	28.7	10	0.68	4.07	2.45	0.97	16.6	3.96	<5	4.0	0.90
X101263		100.14	0.12	0.08	151.0	11.7	30	0.69	1.11	0.75	0.70	20.4	1.27	<5	1.1	0.21
X101264		101.35	0.17	0.05	154.0	11.8	40	0.55	1.15	0.60	0.66	19.9	1.25	<5	1.0	0.22
X101265		99.67	0.11	0.09	172.5	11.5	40	0.73	0.93	0.66	0.69	21.2	1.02	<5	0.9	0.22
X101266		99.12	0.09	0.12	241	12.2	40	1.06	1.11	0.78	0.63	21.1	1.15	<5	0.8	0.27
X101267		98.97	0.21	0.10	302	18.9	40	0.89	1.32	0.62	0.90	20.1	1.42	<5	1.1	0.27
X101268		100.47	0.19	0.04	391	68.9	300	0.74	4.40	1.94	2.29	16.8	6.98	<5	3.3	0.75
X101269		101.53	0.21	0.02	302	55.2	570	0.42	3.79	1.38	1.95	13.8	6.26	<5	2.6	0.69
X101270		99.25	0.24	0.03	283	52.7	550	0.38	3.73	1.61	1.74	13.3	6.28	<5	2.1	0.70
X101271		98.06	0.25	0.04	243	57.5	530	0.76	3.65	1.68	1.93	14.3	6.13	<5	2.5	0.69
X101272		99.66	0.13	0.02	265	11.7	40	0.99	0.89	0.57	0.59	20.7	1.02	<5	0.8	0.20
X101273		100.75	0.12	0.14	620	12.9	70	1.15	1.21	0.85	0.60	19.0	1.49	<5	1.2	0.28
X101274		100.51	0.15	0.06	264	54.1	200	0.68	3.51	1.96	1.71	17.6	5.07	<5	2.5	0.65
X101275		100.02	0.28	0.04	221	80.9	240	0.56	4.66	2.29	2.27	19.4	7.28	<5	3.5	0.82
X101276		98.64	0.21	0.07	294	41.3	20	1.20	3.35	2.12	1.23	19.7	4.00	<5	3.2	0.71
X101277		99.28	0.13	0.03	166.5	15.6	30	0.59	1.34	0.71	0.73	20.1	1.32	<5	0.9	0.26
X101278		100.10	0.11	<0.01	177.5	13.6	40	0.76	1.33	0.73	0.58	21.9	1.08	<5	1.0	0.26
X101279		99.10	0.06	0.01	146.0	11.3	30	0.71	1.00	0.69	0.52	18.4	1.20	<5	0.9	0.17
X101280		101.12	0.16	<0.01	229	13.5	40	1.11	1.28	0.64	0.68	21.2	1.14	<5	0.8	0.25
X101281		100.69	0.10	0.01	167.5	13.2	40	0.69	0.97	0.71	0.66	22.1	1.04	<5	1.2	0.23
X101282		99.90	0.23	2.52	301	20.6	830	0.62	2.73	1.55	0.81	11.4	2.81	<5	2.1	0.56
X101283		100.99	0.10	<0.01	163.5	14.5	50	0.41	1.28	0.71	0.67	21.6	1.35	<5	0.9	0.28
X101284		96.98	0.12	<0.01	162.5	13.1	40	0.54	1.25	0.75	0.58	20.1	1.16	<5	1.2	0.23
X101285		100.86	0.12	<0.01	220	13.4	50	1.04	1.20	0.70	0.64	20.5	1.31	<5	1.2	0.26
X101286		99.32	0.19	<0.01	219	16.9	40	0.82	1.24	0.66	0.64	21.7	1.38	<5	1.2	0.27
X101287		101.50	0.11	<0.01	206	18.5	50	0.66	1.40	0.80	0.73	20.7	1.67	<5	1.3	0.30
X101288		100.12	0.17	0.01	263	32.6	80	0.99	2.22	1.05	1.10	20.5	2.88	<5	1.7	0.44
X101289		101.45	0.19	0.01	206	18.5	40	0.89	1.28	0.63	0.66	18.9	1.39	<5	1.5	0.23
X101290		100.45	0.29	0.02	204	13.5	50	0.88	1.29	0.78	0.61	20.8	1.32	<5	1.0	0.26
X101291		100.61	0.25	<0.01	193.0	12.8	40	0.63	1.23	0.67	0.52	19.9	1.28	<5	1.2	0.26
X101292		99.85	0.16	<0.01	192.5	13.2	40	0.60	1.13	0.71	0.66	20.8	1.16	<5	0.9	0.22
X101293		100.12	0.15	<0.01	182.5	13.9	40	0.69	1.18	0.64	0.69	21.4	1.33	<5	1.0	0.25
X101294		98.39	0.12	0.01	192.0	13.6	40	0.78	1.24	0.70	0.63	20.1	1.12	<5	0.7	0.24
X101295		99.89	0.08	0.01	218	13.7	40	0.73	1.31	0.81	0.63	20.6	1.40	<5	1.3	0.27
X101296		101.06	0.07	<0.01	251	16.3	40	0.74	1.16	0.74	0.59	20.7	1.24	<5	1.4	0.23
X101297		101.06	0.13	<0.01	211	15.5	40	0.84	1.20	0.74	0.59	20.7	1.48	<5	1.0	0.24
X101298		100.50	0.09	0.01	218	14.2	40	1.09	1.14	0.68	0.66	20.5	1.37	<5	1.1	0.28
X101299		98.78	0.07	1.53	208	26.0	240	0.88	2.53	1.51	1.10	14.7	2.76	<5	2.4	0.50

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

Finalized Date: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101262		13.4	0.43	3.1	17.4	3.78	27.5	4.19	1	496	0.3	0.59	3.02	0.38	1.24	158
X101263		6.1	0.08	1.4	5.8	1.37	8.2	1.18	<1	443	0.1	0.16	1.01	0.09	0.30	81
X101264		6.2	0.11	1.3	5.9	1.44	8.3	1.18	<1	446	0.1	0.16	0.86	0.10	0.25	80
X101265		6.3	0.07	1.3	5.5	1.36	11.3	1.25	1	461	0.1	0.16	1.06	0.08	0.25	82
X101266		6.3	0.09	1.3	6.1	1.45	19.9	1.21	<1	479	0.1	0.18	0.98	0.09	0.24	85
X101267		9.3	0.13	6.2	9.8	2.27	17.9	2.35	2	493	0.1	0.19	1.33	0.09	0.29	86
X101268		30.7	0.23	5.1	42.2	9.49	10.4	9.41	2	527	0.5	0.88	4.85	0.26	1.07	239
X101269		24.0	0.26	3.7	33.9	7.58	4.7	8.02	1	411	0.3	0.75	3.95	0.24	0.92	236
X101270		23.9	0.20	3.6	32.9	7.22	5.4	7.67	1	402	0.3	0.68	3.87	0.19	0.78	224
X101271		26.0	0.21	3.8	35.6	7.69	9.0	7.89	1	401	0.3	0.79	4.04	0.23	0.83	213
X101272		6.5	0.08	1.2	5.9	1.42	21.5	1.18	<1	480	0.1	0.13	1.03	0.09	0.26	75
X101273		6.7	0.10	1.6	6.4	1.60	55.1	1.35	<1	530	0.1	0.23	1.31	0.09	0.32	112
X101274		25.3	0.25	4.1	31.0	7.26	11.4	7.06	1	476	0.3	0.67	4.06	0.23	0.91	192
X101275		38.0	0.27	5.7	45.5	10.90	8.3	10.35	3	569	0.5	0.81	6.28	0.31	1.38	239
X101276		20.9	0.32	5.1	19.9	5.34	15.5	4.39	1	340	0.3	0.51	2.93	0.26	0.57	165
X101277		7.6	0.13	3.1	7.5	1.84	9.0	1.26	<1	478	0.1	0.18	1.15	0.12	0.27	74
X101278		6.7	0.11	1.6	6.3	1.62	8.8	1.20	<1	503	0.1	0.18	1.04	0.12	0.27	85
X101279		5.5	0.09	1.3	5.2	1.35	8.3	0.80	1	428	<0.1	0.17	0.95	0.09	0.26	70
X101280		6.7	0.11	1.6	6.5	1.56	17.8	1.31	<1	490	0.1	0.21	0.95	0.11	0.26	82
X101281		6.7	0.11	1.6	6.2	1.57	6.4	1.24	1	484	0.1	0.16	1.08	0.12	0.33	87
X101282		9.7	0.21	6.5	11.0	2.60	5.1	2.81	3	67.8	0.3	0.49	2.06	0.24	0.94	198
X101283		7.1	0.12	1.8	6.4	1.63	3.9	1.41	1	471	0.1	0.23	1.29	0.10	0.37	93
X101284		6.5	0.09	1.5	6.4	1.53	5.8	1.26	<1	448	0.1	0.19	1.08	0.11	0.34	90
X101285		6.6	0.11	1.7	6.3	1.60	17.3	1.17	<1	478	0.1	0.19	1.08	0.10	0.34	94
X101286		8.4	0.10	1.7	7.7	2.03	10.0	1.45	1	492	0.1	0.23	1.61	0.11	0.37	84
X101287		9.0	0.09	1.9	9.0	2.31	8.4	1.83	1	476	0.1	0.30	1.58	0.12	0.40	99
X101288		14.8	0.15	2.8	18.1	4.31	13.1	3.55	1	517	0.2	0.46	2.41	0.19	0.53	138
X101289		9.3	0.09	1.4	7.9	2.03	10.3	1.62	<1	423	0.1	0.20	2.93	0.10	0.70	76
X101290		6.6	0.11	1.5	6.5	1.61	10.1	1.38	1	470	<0.1	0.22	1.00	0.10	0.30	97
X101291		6.2	0.12	1.7	6.4	1.64	11.3	1.32	3	457	0.1	0.21	1.34	0.11	0.38	84
X101292		6.3	0.09	1.6	6.5	1.57	9.0	1.30	<1	462	0.1	0.21	1.18	0.13	0.29	90
X101293		7.0	0.11	1.6	6.6	1.63	8.9	1.31	1	479	<0.1	0.22	1.05	0.11	0.30	96
X101294		6.8	0.10	1.5	6.2	1.58	10.6	1.40	<1	464	0.1	0.20	1.07	0.11	0.29	91
X101295		6.6	0.10	1.6	6.8	1.66	12.4	1.30	<1	455	<0.1	0.21	1.19	0.11	0.35	96
X101296		8.2	0.10	1.8	7.6	1.88	15.9	1.33	1	438	0.1	0.20	1.93	0.11	0.45	81
X101297		7.7	0.11	1.7	7.4	1.87	12.5	1.38	1	459	0.1	0.20	1.74	0.11	0.79	91
X101298		7.1	0.11	1.6	6.7	1.69	15.6	1.34	1	455	0.1	0.22	1.55	0.12	0.43	83
X101299		11.7	0.19	6.8	13.0	3.20	16.2	2.76	4	253	0.4	0.44	1.58	0.21	0.43	122

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

Finalized Date: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101262		6	24.4	2.65	148	0.7	0.05	<0.005	0.011	<0.001	0.13	0.2	0.01	0.04	<0.5	<0.5
X101263		1	5.6	0.48	39	0.3	0.01	<0.005	0.005	<0.001	<0.05	0.2	0.04	0.02	<0.5	<0.5
X101264		1	5.9	0.63	33	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.03	0.02	<0.5	<0.5
X101265		<1	6.0	0.59	33	0.3	0.03	<0.005	<0.005	<0.001	<0.05	0.3	0.02	0.02	<0.5	<0.5
X101266		1	6.2	0.68	37	0.7	0.02	<0.005	<0.005	<0.001	<0.05	0.3	0.03	0.02	<0.5	<0.5
X101267		1	6.6	0.76	37	0.4	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.06	0.02	<0.5	<0.5
X101268		1	20.5	1.76	110	0.2	0.02	<0.005	0.013	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
X101269		1	17.9	1.67	87	0.2	0.01	<0.005	0.010	<0.001	<0.05	0.3	0.01	<0.02	<0.5	0.6
X101270		1	17.4	1.51	84	0.2	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.8
X101271		1	17.6	1.57	90	0.1	0.02	<0.005	0.012	<0.001	<0.05	0.3	0.01	0.02	<0.5	0.7
X101272		1	5.4	0.53	29	0.2	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.02	0.02	<0.5	<0.5
X101273		1	7.2	0.86	41	1.0	0.03	<0.005	0.006	<0.001	<0.05	0.5	0.05	0.02	0.6	<0.5
X101274		2	17.6	1.35	100	0.3	0.03	<0.005	0.011	<0.001	<0.05	0.3	0.05	0.02	<0.5	0.6
X101275		1	22.5	1.79	131	0.1	0.02	<0.005	0.015	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X101276		1	18.8	1.99	133	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.04	<0.5	0.6
X101277		1	6.1	0.72	37	0.2	0.02	<0.005	0.005	<0.001	<0.05	0.3	0.03	<0.02	<0.5	<0.5
X101278		1	6.2	0.68	34	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101279		<1	5.3	0.62	34	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101280		<1	6.2	0.79	29	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101281		<1	6.2	0.66	46	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.03	<0.02	<0.5	<0.5
X101282		1	14.5	1.71	81	41.8	0.33	0.119	0.051	0.015	1.27	11.9	1.46	0.05	2.9	1.4
X101283		<1	6.6	0.72	32	0.3	<0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101284		<1	6.3	0.73	45	0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101285		<1	6.5	0.67	47	0.3	1.37	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
X101286		<1	6.7	0.74	39	0.2	0.42	<0.005	0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X101287		<1	7.2	0.74	50	0.2	0.02	<0.005	0.005	<0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
X101288		<1	10.5	1.01	61	0.2	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X101289		<1	6.3	0.56	53	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101290		<1	6.7	0.68	33	0.3	0.03	<0.005	0.005	<0.001	<0.05	0.2	0.05	<0.02	<0.5	<0.5
X101291		<1	6.6	0.73	45	0.1	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101292		2	6.3	0.75	34	0.3	<0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101293		<1	6.6	0.76	34	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
X101294		<1	6.2	0.60	30	0.4	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
X101295		<1	6.7	0.68	41	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101296		<1	6.4	0.72	53	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
X101297		<1	6.8	0.74	36	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101298		1	6.5	0.78	39	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101299		3	13.0	1.23	89	3.7	0.78	0.012	0.067	0.004	0.36	5.4	0.58	0.10	2.0	1.0

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 19-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070717

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
X101262		11	91	10	1	5	10	17	60	0.002	<0.005	0.002	0.018
X101263		19	65	10	<1	32	3	8	41	0.004	0.017	0.013	0.124
X101264		17	73	10	<1	25	<2	8	40	0.004	0.005	0.007	0.100
X101265		19	80	10	<1	25	5	9	44	0.002	<0.005	0.009	0.135
X101266		19	113	10	<1	32	2	8	43	0.007	0.009	0.013	0.169
X101267		18	122	20	<1	41	3	8	40	0.007	0.030	0.024	0.172
X101268		45	162	20	<1	96	2	36	101	0.003	<0.005	0.003	0.058
X101269		56	126	20	<1	169	2	45	103	0.002	<0.005	0.004	0.045
X101270		57	154	20	<1	168	<2	46	99	0.002	<0.005	0.004	0.053
X101271		59	122	30	<1	181	4	41	105	0.002	<0.005	0.004	0.048
X101272		16	60	10	<1	29	<2	7	39	0.001	<0.005	0.002	0.061
X101273		31	185	20	<1	82	4	13	48	0.018	0.043	0.043	0.330
X101274		39	140	20	<1	79	<2	26	84	0.004	0.012	0.011	0.083
X101275		43	138	30	<1	71	6	32	98	0.002	<0.005	0.003	0.048
X101276		34	55	20	<1	32	3	18	90	0.002	<0.005	<0.001	0.081
X101277		17	19	10	<1	21	<2	7	35	0.002	0.016	0.026	0.038
X101278		16	11	10	<1	19	3	7	33	0.002	<0.005	0.005	0.021
X101279		13	18	10	<1	15	4	7	33	0.002	<0.005	0.005	0.023
X101280		16	5	20	<1	20	<2	7	32	0.001	<0.005	0.007	0.006
X101281		17	8	10	<1	23	2	8	32	0.001	0.008	0.018	0.021
X101282		151	5530	40	2	2170	7	24	78	0.175	0.693	0.366	10.35
X101283		20	6	10	<1	27	2	9	35	0.001	<0.005	0.006	0.004
X101284		19	3	10	<1	23	3	9	36	0.001	0.005	0.011	0.004
X101285		19	8	20	<1	27	2	8	39	0.003	<0.005	0.010	0.011
X101286		16	8	10	<1	20	2	8	35	0.002	<0.005	0.009	0.013
X101287		18	24	10	<1	23	2	9	40	0.001	<0.005	0.007	0.012
X101288		25	55	20	<1	30	<2	13	58	0.002	<0.005	0.006	0.032
X101289		15	19	10	<1	18	<2	7	33	0.001	<0.005	0.005	0.032
X101290		19	26	20	<1	23	8	9	38	0.002	0.025	0.039	0.033
X101291		17	2	30	1	24	2	9	33	0.001	<0.005	0.006	0.004
X101292		17	3	10	<1	20	3	9	33	0.001	<0.005	0.006	0.005
X101293		16	14	10	<1	19	2	9	37	0.001	0.010	0.006	0.025
X101294		17	21	10	<1	18	4	9	43	0.002	0.010	0.007	0.040
X101295		17	19	10	<1	19	8	9	45	0.001	0.010	0.007	0.034
X101296		15	14	10	<1	17	<2	8	39	0.001	0.008	0.004	0.020
X101297		16	13	10	<1	17	2	8	41	0.002	0.009	0.006	0.022
X101298		15	14	20	<1	16	<2	8	40	0.001	0.009	0.006	0.027
X101299		112	4430	20	4	4410	24	12	103	0.078	0.286	0.598	4.23

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Finalized Date: 19-APR-2018
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CERTIFICATE OF ANALYSIS TB18070717

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		