ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 8-NOV-2017
Account: NAPEHZEU

CERTIFICATE TB17223581

Project: Gfields

P.O. No.: 178845

This report is for 34 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 16-OCT-2017.

The following have access to data associated with this certificate:

DAVID BENSON DAVE PECK	LIONNEL DJON KELSEY PRIVETT	JILL MAXWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-21	Sample logging - ClientBarCode
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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Finalized Date: 8-NOV-2017
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CERTIFICATE OF ANALYSIS TB17223581

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
R430577		1.65	12.15	0.12	0.13	27.5	22.4	0.09	0.05	<0.01	0.01	0.05	0.01	0.01	0.01	37.0
R430578		0.09	45.8	12.95	20.7	6.04	6.77	2.25	0.63	0.03	1.26	0.19	0.16	0.03	0.02	1.18
R430579		1.23	38.5	9.12	44.7	2.20	2.50	1.21	0.52	0.02	0.34	0.10	0.28	0.01	0.02	-0.21
R430580		1.69	51.8	14.90	9.77	7.14	6.41	4.04	1.00	0.04	0.80	0.15	0.40	0.09	0.06	2.36
R430581		1.54	45.9	10.45	17.80	5.86	17.15	0.98	0.11	0.01	0.43	0.28	0.05	0.05	0.01	0.11
R430582		2.09	45.7	3.38	20.2	11.00	16.60	0.46	0.06	0.07	1.19	0.38	0.04	0.01	<0.01	0.05
R430583		1.80	46.7	15.95	12.75	9.84	7.45	2.86	0.21	0.04	0.94	0.20	0.53	0.11	0.03	1.93
R430584		1.25	46.6	12.00	14.10	3.54	14.20	0.23	0.08	0.15	1.36	0.22	0.47	0.01	0.01	6.79
R430585		1.73	45.6	9.89	13.30	11.35	13.80	1.44	0.39	0.15	1.03	0.23	0.43	0.06	0.02	2.16
R430586		1.53	52.3	19.15	11.75	2.79	5.61	2.57	1.59	0.05	0.98	0.13	0.11	0.03	0.05	3.29
R430587		2.09	56.5	15.70	8.09	6.22	4.97	4.00	2.21	0.03	0.70	0.13	0.34	0.09	0.08	0.69
R430588		0.93	52.8	19.45	7.07	7.37	5.60	3.47	2.34	0.04	0.45	0.11	0.11	0.10	0.11	1.81
R430589		1.07	55.0	17.75	14.10	2.16	4.46	1.95	2.39	0.03	0.65	0.15	0.16	0.02	0.03	1.64
R430590		2.27	48.4	10.75	11.60	9.54	12.25	2.20	0.94	0.15	0.83	0.19	0.22	0.04	0.03	1.19
R430591		1.97	48.0	6.04	10.95	12.30	17.05	0.95	0.36	0.22	0.60	0.19	0.09	0.02	0.01	1.95
R430592		1.48	12.20	0.07	0.14	27.4	21.2	0.05	0.02	<0.01	<0.01	0.05	0.01	0.02	0.08	37.0
R430593		0.09	47.7	13.05	21.3	6.15	6.83	2.25	0.67	0.04	1.27	0.20	0.15	0.03	0.03	1.38
R430594		1.56	71.4	15.35	3.33	2.97	0.89	4.44	1.57	<0.01	0.32	0.04	0.07	0.03	0.08	0.47
R430595		1.88	71.6	15.20	2.65	2.80	1.00	4.28	1.74	<0.01	0.32	0.03	0.10	0.03	0.05	0.61
R430596		1.74	67.0	15.80	5.50	4.24	1.36	4.42	0.96	<0.01	0.48	0.08	0.12	0.02	0.04	0.38
R430597		3.74	64.5	17.55	5.16	5.10	2.12	3.85	1.40	0.01	0.52	0.07	0.14	0.05	0.03	0.48
R430598		2.64	56.7	17.90	7.24	6.42	3.10	4.22	0.82	0.01	0.67	0.11	0.22	0.06	0.02	0.55
R430599		1.85	62.6	15.85	6.58	5.12	2.14	4.00	1.41	0.01	0.63	0.11	0.22	0.03	0.03	0.89
R430600		1.48	73.0	14.40	2.66	2.26	0.67	4.58	1.86	0.01	0.27	0.04	0.08	0.02	0.06	0.81
R430601		0.98	73.7	14.35	2.64	2.61	0.48	4.41	1.69	<0.01	0.22	0.03	0.08	0.04	0.15	0.34
R430602		0.97	71.0	15.35	3.20	3.04	0.72	4.78	1.23	<0.01	0.27	0.03	0.07	0.05	0.04	0.71
R430603		1.31	75.6	13.80	1.36	0.83	0.34	3.82	4.75	<0.01	0.12	0.02	0.04	0.03	0.09	0.42
R430604		1.03	68.3	16.20	4.20	3.82	1.27	4.54	1.35	<0.01	0.45	0.05	0.12	0.03	0.03	0.34
R430605		1.63	63.5	17.15	5.83	5.72	2.16	4.29	0.85	0.01	0.54	0.08	0.20	0.07	0.02	0.56
R430606		2.06	66.9	15.45	5.76	4.68	1.64	3.87	1.10	<0.01	0.59	0.08	0.13	0.02	0.04	0.41
R430607		1.02	61.0	17.45	6.31	4.81	2.76	4.34	1.40	0.01	0.59	0.10	0.20	0.05	0.03	1.50
R430608		1.75	59.0	18.45	6.55	6.43	2.58	4.39	0.90	0.01	0.64	0.10	0.19	0.06	0.02	1.05
R430609		1.32	73.5	14.75	2.76	2.71	0.64	4.02	2.01	<0.01	0.27	0.03	0.08	0.03	0.09	0.49
R430610		0.09	47.3	12.95	20.9	6.24	6.73	2.18	0.63	0.03	1.23	0.19	0.16	0.03	0.02	1.29

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 8-NOV-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17223581

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 0.5	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
R430577		99.53	10.10	0.02	59.3	1.1	10	0.62	0.05	0.05	0.03	0.2	0.06	<5	<0.2	0.02
R430578		98.01	0.08	1.79	221	26.9	250	0.92	2.53	1.47	1.05	15.8	2.68	<5	2.5	0.52
R430579		99.31	0.02	0.39	154.5	17.8	140	1.59	2.06	1.33	0.64	12.1	1.86	<5	1.1	0.43
R430580		98.96	0.30	0.02	572	92.9	300	0.71	4.36	2.01	2.53	20.9	7.49	<5	3.5	0.77
R430581		99.19	0.08	0.23	134.0	14.5	90	0.07	1.55	0.89	0.72	11.5	1.95	<5	0.6	0.30
R430582		99.14	0.12	0.10	40.4	31.6	490	0.07	5.11	2.58	1.65	12.1	6.95	<5	1.9	0.94
R430583		99.54	0.20	0.05	241	61.7	240	0.18	3.93	1.82	2.23	19.4	6.25	<5	1.2	0.76
R430584		99.76	0.31	0.04	46.0	73.4	1130	0.28	6.26	2.57	3.15	17.4	11.10	<5	2.6	1.08
R430585		99.85	0.21	0.04	176.5	71.3	1080	0.15	5.50	2.35	3.10	15.8	9.85	<5	2.3	0.93
R430586		100.40	0.06	0.44	431	42.6	400	1.97	3.02	1.81	1.09	24.6	3.37	<5	3.5	0.61
R430587		99.75	0.13	0.02	745	105.0	220	2.93	4.00	1.81	2.19	21.1	6.31	<5	5.4	0.71
R430588		100.83	0.04	0.02	1035	33.5	290	1.44	1.79	0.96	0.83	18.8	2.29	<5	2.1	0.36
R430589		100.49	0.04	0.03	296	40.5	240	4.70	4.01	2.14	1.19	20.8	4.29	<5	2.5	0.79
R430590		98.33	0.06	0.02	320	53.2	1140	0.44	3.67	1.80	1.59	15.7	5.41	<5	3.1	0.70
R430591		98.73	0.16	0.06	102.5	28.5	1570	0.24	2.93	1.38	1.37	8.9	4.56	<5	1.4	0.54
R430592		98.24	10.10	0.03	732	1.8	10	0.56	0.10	0.07	<0.03	0.2	0.08	<5	<0.2	0.02
R430593		101.05	0.07	1.68	214	26.0	230	0.90	2.41	1.48	1.11	15.0	2.86	<5	2.5	0.48
R430594		100.96	0.03	0.02	725	20.0	20	2.72	0.81	0.45	0.57	20.0	0.97	<5	4.6	0.16
R430595		100.41	0.03	0.02	429	113.0	20	1.10	1.23	0.54	0.69	18.6	1.95	<5	5.1	0.25
R430596		100.40	<0.01	0.01	396	34.1	30	0.54	3.45	1.79	1.01	19.4	4.06	<5	4.8	0.71
R430597		100.98	<0.01	0.01	305	23.4	40	4.31	1.68	0.99	0.84	20.4	2.12	<5	2.9	0.37
R430598		98.04	<0.01	0.01	223	38.4	50	1.01	2.22	1.13	1.23	22.4	3.11	<5	2.6	0.45
R430599		99.62	0.01	0.01	290	102.0	60	1.07	4.24	2.18	1.28	21.1	5.29	<5	4.9	0.79
R430600		100.72	<0.01	0.01	528	39.2	30	0.95	0.93	0.47	0.88	17.5	1.40	<5	4.2	0.20
R430601		100.74	0.02	0.02	1350	18.9	20	1.63	0.90	0.86	0.53	17.4	0.87	<5	11.8	0.21
R430602		100.49	0.02	0.18	367	38.7	30	1.62	0.83	0.45	0.68	19.8	1.36	<5	4.5	0.17
R430603		101.22	0.02	0.01	766	25.9	20	1.33	0.73	0.39	0.40	19.0	1.38	<5	2.6	0.13
R430604		100.70	0.01	0.01	319	41.7	20	3.06	1.75	0.86	0.77	23.6	2.17	<5	5.5	0.31
R430605		100.98	<0.01	0.02	221	35.1	30	1.63	2.61	1.29	1.13	21.3	3.22	<5	3.3	0.49
R430606		100.67	<0.01	0.01	410	57.9	30	1.28	4.42	2.62	1.15	20.7	4.68	<5	5.9	0.91
R430607		100.55	0.01	0.02	288	36.1	40	0.96	2.35	1.32	1.03	20.8	3.09	<5	2.7	0.47
R430608		100.37	0.02	0.02	170.5	20.7	30	1.06	2.71	1.51	1.02	23.2	3.19	<5	3.3	0.51
R430609		101.38	<0.01	0.01	840	79.3	20	0.82	0.91	0.35	0.72	18.6	2.08	<5	5.0	0.15
R430610		99.88	0.07	1.72	216	26.5	220	0.92	2.49	1.29	0.97	15.9	2.84	<5	2.2	0.51

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Finalized Date: 8-NOV-2017
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Project: Gfields

CERTIFICATE OF ANALYSIS TB17223581

Sample Description	Method / Analyte / Units / LOR	ME-MS81 La ppm 0.5	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
R430577		0.7	0.01	1.1	0.4	0.11	2.1	0.11	<1	108.5	<0.1	0.02	0.14	<0.01	0.30	<5
R430578		12.2	0.18	7.2	13.9	3.28	16.1	3.05	5	254	0.5	0.45	1.64	0.17	0.54	124
R430579		8.4	0.17	2.1	9.0	2.16	24.6	1.85	1	98.1	0.2	0.33	1.50	0.16	0.52	137
R430580		40.6	0.25	6.2	53.4	12.30	18.8	10.60	1	832	0.3	0.92	1.31	0.25	0.39	197
R430581		6.0	0.13	1.2	10.4	2.06	1.3	2.31	1	421	0.1	0.28	0.07	0.12	<0.05	114
R430582		7.9	0.34	1.8	32.1	5.99	0.7	8.83	1	94.7	0.1	0.97	0.09	0.35	<0.05	353
R430583		25.2	0.21	2.4	41.0	8.67	1.3	8.72	1	889	0.1	0.83	0.25	0.25	0.06	236
R430584		21.5	0.26	6.9	65.1	12.55	1.0	15.45	1	98.5	0.4	1.42	0.37	0.30	0.08	301
R430585		22.7	0.25	5.0	58.5	11.65	1.6	13.70	1	502	0.3	1.26	0.31	0.30	0.06	269
R430586		20.4	0.27	5.4	21.2	5.05	45.4	4.10	1	248	0.4	0.50	4.53	0.23	0.78	291
R430587		48.1	0.22	10.3	52.8	12.95	62.1	9.42	2	756	0.6	0.81	8.65	0.23	1.71	145
R430588		16.0	0.14	3.2	16.0	3.92	69.3	3.13	1	824	0.3	0.33	2.57	0.12	0.50	119
R430589		18.8	0.29	4.3	21.2	5.07	98.3	4.85	2	140.0	0.3	0.68	3.88	0.31	1.08	205
R430590		20.4	0.26	4.5	34.3	7.53	17.2	7.25	1	325	0.3	0.74	2.35	0.25	0.54	250
R430591		10.0	0.16	2.2	22.5	4.47	5.1	5.65	1	151.5	0.1	0.62	1.18	0.17	0.28	195
R430592		1.3	0.01	0.3	0.7	0.17	0.9	0.11	<1	146.0	<0.1	0.02	0.21	<0.01	0.40	<5
R430593		11.7	0.18	6.9	13.4	3.20	15.0	2.87	4	249	0.5	0.45	1.47	0.17	0.47	121
R430594		9.9	0.08	7.7	6.7	1.92	54.8	1.25	1	225	0.5	0.15	7.50	0.07	0.66	37
R430595		57.2	0.09	7.0	31.3	10.30	47.3	3.70	1	261	0.5	0.29	12.35	0.08	0.75	29
R430596		16.1	0.16	8.2	17.9	4.18	23.1	4.39	1	203	0.3	0.70	1.54	0.21	0.19	60
R430597		10.1	0.14	3.9	12.7	2.98	69.7	2.43	1	407	0.2	0.33	0.15	0.12	0.20	80
R430598		17.0	0.19	4.0	20.7	5.15	23.6	3.95	1	579	0.2	0.40	0.39	0.18	0.18	157
R430599		54.5	0.29	9.1	38.0	11.15	50.3	6.34	2	288	0.4	0.71	5.09	0.33	0.41	96
R430600		21.8	0.08	6.3	13.6	4.14	75.8	2.23	1	248	0.3	0.18	8.13	0.08	0.84	28
R430601		10.4	0.29	3.8	6.5	1.89	47.9	1.11	1	408	0.2	0.12	2.46	0.16	4.95	22
R430602		18.6	0.08	4.5	12.5	3.56	48.4	2.05	1	480	0.4	0.16	5.30	0.08	1.35	31
R430603		10.8	0.03	4.1	10.7	2.73	87.7	1.99	<1	270	0.5	0.16	5.77	0.03	1.95	10
R430604		20.1	0.06	7.8	15.4	4.14	55.0	2.98	1	263	0.4	0.31	5.01	0.10	0.23	49
R430605		13.9	0.14	3.2	22.3	4.86	29.7	4.36	1	561	0.2	0.42	0.09	0.17	0.05	98
R430606		27.7	0.31	7.8	26.2	6.78	34.7	5.28	2	217	0.5	0.69	3.06	0.36	0.44	77
R430607		13.3	0.15	4.2	20.9	4.91	41.1	3.91	1	412	0.2	0.42	0.20	0.16	0.11	96
R430608		8.1	0.18	4.4	15.1	3.06	33.8	3.77	1	475	0.3	0.44	0.14	0.18	0.14	118
R430609		41.8	0.02	5.1	26.8	7.95	39.8	3.88	1	206	0.1	0.21	10.80	0.02	0.47	20
R430610		11.7	0.16	9.0	13.6	3.25	14.6	2.90	4	241	0.5	0.40	1.76	0.19	0.54	116

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

ALS Canada Ltd.

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

Finalized Date: 8-NOV-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17223581

Sample Description	Method / Analyte / Units / LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	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
R430577		1	0.5	0.05	2	0.8	0.01	<0.005	<0.005	<0.001	0.05	<0.2	<0.01	0.06	<0.5	<0.5
R430578		3	13.1	1.16	98	4.2	0.83	0.009	0.073	0.004	0.30	4.8	0.52	0.10	2.3	1.2
R430579		<1	12.4	1.06	42	0.3	0.16	<0.005	0.028	0.001	<0.05	0.7	0.08	0.10	<0.5	<0.5
R430580		<1	20.9	1.53	151	0.2	0.02	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
R430581		<1	7.4	0.80	18	<0.1	<0.01	<0.005	0.009	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
R430582		<1	24.2	2.17	52	0.3	0.01	<0.005	0.021	<0.001	<0.05	0.2	<0.01	0.02	<0.5	1.0
R430583		1	18.9	1.45	34	0.8	0.01	<0.005	0.012	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
R430584		1	27.7	1.71	68	2.4	0.03	<0.005	0.054	<0.001	0.05	0.2	0.02	<0.02	<0.5	<0.5
R430585		<1	25.4	1.77	63	0.7	0.01	<0.005	0.013	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.6
R430586		<1	15.5	1.62	134	1.4	0.11	0.007	0.043	0.001	0.15	0.5	0.05	0.24	<0.5	<0.5
R430587		1	19.1	1.50	220	1.8	0.11	<0.005	0.015	<0.001	0.05	<0.2	<0.01	0.25	<0.5	<0.5
R430588		<1	8.9	0.76	76	0.5	0.01	<0.005	<0.005	<0.001	<0.05	0.3	<0.01	0.09	<0.5	<0.5
R430589		1	20.9	2.03	91	0.4	0.21	<0.005	0.056	0.001	<0.05	<0.2	0.09	0.39	<0.5	<0.5
R430590		<1	18.2	1.51	116	0.4	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.03	<0.5	0.6
R430591		<1	13.9	1.05	47	1.4	0.01	0.005	0.010	<0.001	<0.05	<0.2	0.01	0.02	<0.5	0.7
R430592		1	0.8	0.08	4	4.3	0.02	0.005	<0.005	<0.001	0.10	<0.2	0.01	0.06	<0.5	<0.5
R430593		3	13.0	1.19	106	4.1	0.84	0.016	0.072	0.005	0.36	5.4	0.56	0.11	2.2	1.5
R430594		<1	4.6	0.48	169	<0.1	0.02	0.008	0.013	<0.001	<0.05	<0.2	0.01	0.25	<0.5	<0.5
R430595		<1	6.0	0.56	189	0.2	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.16	<0.5	<0.5
R430596		<1	18.2	1.22	192	0.1	0.01	<0.005	0.022	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
R430597		4	9.8	0.90	108	<0.1	0.03	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.31	<0.5	<0.5
R430598		<1	12.8	1.01	107	<0.1	0.01	0.008	0.010	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
R430599		1	24.5	1.82	210	0.1	0.02	<0.005	0.020	<0.001	<0.05	0.2	0.01	0.14	<0.5	<0.5
R430600		40	5.6	0.46	164	0.3	0.09	0.005	0.007	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
R430601		<1	7.8	1.32	500	0.3	0.16	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.14	<0.5	<0.5
R430602		<1	5.0	0.52	182	0.1	0.03	0.007	0.009	0.001	<0.05	0.2	0.02	0.14	<0.5	<0.5
R430603		<1	4.2	0.32	78	0.1	0.08	0.012	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
R430604		<1	8.4	0.74	247	0.1	0.05	<0.005	0.015	0.001	<0.05	0.2	0.01	0.35	<0.5	<0.5
R430605		<1	12.9	1.19	149	0.2	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
R430606		<1	23.5	2.47	238	0.1	0.01	<0.005	0.018	<0.001	<0.05	<0.2	0.01	0.16	<0.5	<0.5
R430607		1	12.4	1.12	121	0.2	0.01	0.007	0.010	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
R430608		1	14.0	1.37	156	0.2	0.03	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
R430609		<1	3.5	0.26	206	0.2	0.01	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.13	<0.5	<0.5
R430610		3	12.1	1.14	97	3.8	0.93	0.014	0.067	0.007	0.35	5.5	0.68	0.10	1.8	1.3

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

Finalized Date: 8-NOV-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17223581

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
R430577		<1	1	40	<1	<1	7	<1	26	<0.001	<0.005	0.001	<0.003
R430578		122	4830	20	5	4680	22	12	114	0.057	0.294	0.571	4.38
R430579		22	124	30	1	70	<2	15	57	0.002	0.005	0.004	0.539
R430580		38	43	20	1	97	5	23	110	<0.001	<0.005	0.003	0.010
R430581		134	310	<10	1	347	<2	13	144	0.002	<0.005	0.003	0.287
R430582		85	172	10	<1	246	<2	61	215	0.004	0.007	0.008	0.117
R430583		43	58	10	<1	96	<2	27	122	0.001	<0.005	0.002	0.038
R430584		76	124	10	<1	352	<2	39	137	0.003	0.007	0.006	0.047
R430585		67	71	10	<1	308	<2	38	142	<0.001	0.006	0.005	0.030
R430586		50	103	40	2	165	4	32	138	0.004	0.006	0.006	0.309
R430587		29	33	20	2	86	12	15	102	<0.001	<0.005	0.002	0.009
R430588		33	25	30	1	157	3	11	75	<0.001	0.009	0.006	0.015
R430589		46	138	50	2	147	10	26	107	0.001	0.005	0.004	0.027
R430590		61	62	20	<1	276	3	40	109	0.004	0.007	0.003	0.032
R430591		72	28	10	<1	403	2	56	79	<0.001	0.008	0.003	0.043
R430592		<1	1	20	<1	<1	3	<1	25	<0.001	<0.005	0.001	<0.003
R430593		119	4780	20	5	4580	23	12	115	0.058	0.317	0.599	3.92
R430594		6	22	30	1	10	8	3	62	<0.001	<0.005	<0.001	0.034
R430595		6	3	30	1	5	4	2	47	<0.001	<0.005	<0.001	0.004
R430596		10	23	30	1	13	2	11	96	<0.001	<0.005	0.001	0.008
R430597		15	36	100	1	17	<2	8	79	<0.001	<0.005	<0.001	0.008
R430598		21	17	40	1	28	<2	13	102	<0.001	<0.005	<0.001	0.010
R430599		16	17	30	3	20	3	13	119	<0.001	<0.005	0.001	0.012
R430600		5	10	20	2	7	4	1	47	<0.001	<0.005	0.001	0.089
R430601		2	11	20	3	<1	12	2	41	<0.001	<0.005	0.001	0.013
R430602		9	104	30	1	5	11	1	52	<0.001	<0.005	<0.001	0.097
R430603		2	5	10	1	2	9	1	15	<0.001	<0.005	0.001	0.009
R430604		9	8	40	1	9	<2	6	72	<0.001	<0.005	<0.001	0.008
R430605		15	22	30	<1	11	<2	10	70	<0.001	<0.005	<0.001	0.008
R430606		13	11	50	<1	13	<2	11	72	0.004	<0.005	0.001	0.010
R430607		18	31	30	<1	20	<2	12	83	<0.001	<0.005	<0.001	0.021
R430608		17	20	40	<1	18	<2	11	82	<0.001	<0.005	0.001	0.007
R430609		5	5	20	<1	4	<2	3	52	<0.001	<0.005	<0.001	0.004
R430610		115	4540	20	5	4390	13	12	102	0.107	0.297	0.595	4.48

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Finalized Date: 8-NOV-2017
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CERTIFICATE OF ANALYSIS TB17223581

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		