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: 11-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042515

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 23-FEB-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 TB18042515

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
W870483		0.04	62.2	16.65	5.83	6.07	2.68	3.29	1.47	<0.01	0.49	0.12	0.15	0.06	0.07	1.01
W870484		0.08	41.8	9.10	15.15	15.50	10.75	0.65	0.25	0.10	0.69	0.14	0.12	0.01	0.03	4.05
W870485		2.67	44.7	17.00	13.20	14.35	5.35	1.52	0.53	0.05	1.16	0.27	0.10	0.02	0.02	1.80
W870486		2.70	46.8	15.30	13.65	11.30	5.40	2.27	0.34	0.04	1.03	0.25	0.04	0.02	0.01	1.69
W870487		2.60	47.5	14.65	13.30	11.00	5.75	2.65	0.24	0.04	0.98	0.24	0.02	0.02	0.01	1.82
W870488		2.60	49.3	14.85	12.80	11.65	5.67	2.46	0.27	0.04	0.97	0.24	0.03	0.02	0.01	1.41
W870489		2.48	47.9	14.45	15.20	10.50	6.99	1.99	0.20	0.02	1.07	0.25	0.04	0.01	0.01	0.96
W870490		2.56	47.9	14.95	14.75	10.60	6.85	2.14	0.34	0.02	1.01	0.24	0.05	0.01	0.01	1.47
W870491		2.48	48.9	14.55	12.95	14.25	5.36	2.09	0.35	0.04	0.98	0.27	0.06	0.02	0.01	1.53
W870492		2.30	50.4	15.65	11.65	13.25	4.66	2.48	0.29	0.03	0.88	0.23	0.05	0.02	0.01	1.15
W870493		2.46	47.8	15.45	13.35	12.80	5.39	2.12	0.29	0.04	0.97	0.27	0.03	0.02	0.01	1.54
W870494		2.39	47.5	14.25	13.05	13.80	5.55	2.10	0.31	0.03	0.92	0.26	0.09	0.02	0.01	2.26
W870495		2.53	48.8	15.60	11.20	14.10	4.98	2.32	0.41	0.03	0.80	0.22	0.12	0.03	0.02	1.36
W870496		2.61	46.2	14.10	12.70	16.25	5.07	1.75	0.22	0.03	1.10	0.28	0.05	0.02	0.01	1.52
W870497		2.53	47.6	14.30	13.00	12.80	5.78	2.32	0.19	0.03	1.01	0.24	0.06	0.03	0.01	0.92
W870498		2.68	47.6	15.65	13.95	13.60	5.11	2.11	0.30	0.04	1.03	0.26	0.08	0.02	0.01	0.94
W870499		2.54	48.6	15.45	12.15	12.85	4.63	2.86	0.19	0.04	0.97	0.25	0.05	0.02	0.01	1.27
W870500		2.47	49.6	16.25	11.60	10.40	5.32	3.16	0.30	0.03	0.85	0.22	0.09	0.03	0.01	1.52
W870501		2.41	49.6	15.05	11.25	14.80	4.64	2.50	0.46	0.03	0.94	0.22	0.23	0.03	0.02	1.23
W870502		2.68	55.8	14.60	10.00	10.75	4.50	2.92	1.04	0.03	0.76	0.19	0.04	0.02	0.03	0.76
W870503		0.09	46.8	12.80	20.7	6.29	6.67	2.15	0.62	0.03	1.23	0.19	0.14	0.03	0.02	1.26
W870504		2.71	47.1	14.80	12.55	16.00	4.69	2.08	0.28	0.04	1.03	0.27	0.11	0.01	0.02	0.88
W870505		2.53	46.9	14.85	12.70	14.25	4.41	2.31	0.28	0.04	0.99	0.25	0.07	0.02	0.02	2.52
W870506		2.65	51.8	15.80	11.45	10.60	4.68	3.61	0.32	0.04	0.89	0.22	0.05	0.02	0.02	1.92
W870507		2.56	49.7	15.45	13.10	11.30	5.63	3.28	0.24	0.04	0.99	0.25	0.04	0.02	0.01	1.94
W870508		2.59	49.2	15.15	13.30	11.75	5.85	2.95	0.18	0.04	1.00	0.24	0.04	0.02	0.01	1.29
W870509		2.45	48.4	14.90	15.25	11.55	7.14	1.92	0.12	0.02	1.04	0.24	0.01	0.01	<0.01	1.12
W870510		2.54	48.5	15.40	12.95	12.50	6.88	2.02	0.27	0.04	0.86	0.20	0.01	0.01	0.01	1.81
W870511		2.70	48.1	15.05	14.30	11.60	6.50	2.32	0.20	0.03	1.02	0.24	0.02	0.01	0.01	1.14
W870512		2.47	49.1	15.50	13.30	12.45	5.60	2.51	0.27	0.05	0.94	0.24	0.04	0.01	0.01	1.14
W870513		2.60	48.1	14.65	13.75	12.25	6.14	2.23	0.21	0.04	0.95	0.26	0.07	0.02	0.01	1.48
W870514		2.48	48.1	14.50	13.25	13.30	5.38	2.65	0.20	0.04	0.93	0.25	0.03	0.02	0.01	3.04
W870515		2.60	47.9	14.55	14.05	10.85	6.46	2.33	0.21	0.02	0.94	0.22	0.03	0.01	0.01	1.30
W870516		2.63	50.2	14.60	13.10	11.95	6.38	2.31	0.18	0.03	0.93	0.21	0.03	0.01	0.01	1.43
W870517		2.62	49.1	14.95	13.35	11.75	5.71	2.51	0.25	0.06	0.98	0.25	0.04	0.02	0.01	2.14
W870518		2.56	48.9	15.10	12.95	13.15	5.66	1.90	0.26	0.05	0.94	0.24	0.06	0.02	0.01	1.46
W870519		2.67	48.8	15.20	13.60	12.65	5.77	2.20	0.22	0.05	0.97	0.25	0.03	0.02	0.01	1.32
W870520		2.55	47.4	14.70	13.25	12.55	5.95	1.98	0.19	0.04	0.93	0.23	0.05	0.01	0.01	0.92
W870521		2.60	44.6	15.55	13.65	15.85	6.46	1.10	0.35	0.04	1.04	0.31	0.07	0.01	0.01	1.89
W870522		2.63	48.3	14.40	13.90	12.70	7.31	1.63	0.23	0.04	0.91	0.24	0.06	0.01	0.01	1.17

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THUNDER BAY ON P7B 2R2

Finalized Date: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870483		100.09	0.03	0.01	588	28.7	10	0.66	3.97	2.65	0.94	15.7	3.79	<5	4.3	0.88
W870484		98.34	0.23	2.64	286	19.6	780	0.35	2.61	1.58	0.79	11.0	2.56	<5	2.0	0.53
W870485		100.07	0.16	0.11	172.0	8.2	340	1.03	3.39	2.44	0.80	18.9	2.75	<5	1.1	0.74
W870486		98.14	0.16	0.09	86.4	5.0	330	0.67	3.04	1.99	0.73	17.1	2.38	<5	0.9	0.65
W870487		98.22	0.15	0.09	65.8	3.4	270	0.51	2.68	1.77	0.65	15.3	2.16	<5	0.6	0.60
W870488		99.72	0.18	0.04	87.3	3.8	270	0.70	2.65	1.69	0.65	16.5	2.13	<5	0.7	0.62
W870489		99.59	0.08	0.07	45.8	3.3	150	0.65	2.86	1.76	0.75	17.6	2.40	<5	0.7	0.66
W870490		100.34	0.09	0.10	121.0	3.5	180	1.00	2.61	2.01	0.64	16.9	2.17	<5	0.7	0.62
W870491		101.36	0.25	0.05	111.5	7.4	270	0.90	3.31	2.01	0.76	17.1	2.63	<5	1.2	0.63
W870492		100.75	0.18	0.04	81.0	6.6	240	0.70	2.58	1.78	0.66	16.3	2.40	<5	1.5	0.57
W870493		100.08	0.16	0.06	89.9	4.4	280	1.16	2.87	1.81	0.68	18.7	2.42	<5	0.9	0.59
W870494		100.15	0.39	0.06	85.9	6.2	240	1.23	3.41	1.97	0.78	17.4	2.77	<5	1.2	0.69
W870495		99.99	0.20	0.09	137.5	10.4	210	1.46	2.85	1.70	0.92	16.7	3.03	<5	1.2	0.62
W870496		99.30	0.27	0.11	108.5	8.3	240	0.52	3.50	2.26	0.77	17.2	3.05	<5	1.5	0.77
W870497		98.29	0.15	0.10	111.0	8.3	240	0.21	3.10	2.16	0.74	17.3	2.76	<5	1.5	0.75
W870498		100.70	0.12	0.08	116.0	9.3	270	0.36	3.20	2.27	0.83	17.8	3.02	<5	1.3	0.68
W870499		99.34	0.19	0.08	100.5	6.3	320	0.39	2.95	2.02	0.83	18.0	2.38	<5	1.1	0.68
W870500		99.38	0.14	0.12	122.5	13.6	240	0.60	2.61	1.42	0.81	17.3	2.49	<5	1.3	0.57
W870501		101.00	0.12	0.12	146.0	12.0	200	0.58	2.95	1.70	0.82	16.8	3.06	<5	1.6	0.63
W870502		101.44	0.09	0.10	237	7.1	190	0.49	2.66	1.84	0.74	16.8	2.30	<5	1.5	0.61
W870503		98.93	0.07	1.71	215	26.6	240	1.02	2.55	1.39	1.10	16.0	2.74	<5	2.3	0.50
W870504		99.86	0.10	0.21	165.0	9.0	270	0.41	3.92	2.59	0.86	18.3	3.61	<5	1.6	0.83
W870505		99.61	0.53	0.10	138.5	6.6	280	0.41	3.22	2.15	0.85	18.8	2.76	<5	1.1	0.73
W870506		101.42	0.29	0.11	160.0	6.6	250	0.45	2.78	1.88	0.69	17.3	2.55	<5	1.0	0.64
W870507		101.99	0.28	0.10	109.0	5.5	290	0.41	2.96	1.96	0.79	19.2	2.73	<5	1.1	0.72
W870508		101.02	0.18	0.12	108.5	5.5	290	0.19	3.14	2.20	0.80	19.2	2.88	<5	1.0	0.71
W870509		101.72	0.10	0.09	30.9	2.0	160	0.29	2.44	1.90	0.69	19.4	1.93	<5	0.5	0.64
W870510		101.46	0.17	0.05	66.5	3.0	280	0.61	2.43	1.60	0.60	18.1	2.25	<5	0.7	0.51
W870511		100.54	0.10	0.08	44.4	2.8	240	0.47	2.65	1.62	0.71	17.8	2.32	<5	0.6	0.61
W870512		101.16	0.12	0.04	97.2	6.6	420	0.42	2.96	2.26	0.83	21.4	3.01	<5	1.3	0.70
W870513		100.16	0.11	0.06	75.7	6.4	270	0.44	3.03	1.89	0.79	18.9	2.65	<5	1.1	0.63
W870514		101.70	0.40	0.09	59.0	5.8	270	0.37	2.90	2.06	0.81	18.9	2.60	<5	1.2	0.73
W870515		98.88	0.08	0.07	54.9	4.4	180	0.53	2.94	1.96	0.61	18.9	2.45	<5	1.0	0.64
W870516		101.37	0.14	0.09	56.0	4.1	220	0.59	2.99	1.93	0.75	19.5	2.28	<5	1.0	0.69
W870517		101.12	0.16	0.07	80.4	4.1	460	0.52	2.71	1.81	0.76	19.0	2.43	<5	0.8	0.64
W870518		100.70	0.17	0.08	78.8	5.9	350	0.46	3.20	2.07	0.78	20.3	2.58	<5	1.4	0.71
W870519		101.09	0.15	0.07	65.4	5.2	360	0.27	2.82	1.77	0.66	19.5	2.62	<5	0.9	0.65
W870520		98.21	0.14	0.09	47.8	4.8	280	0.38	3.05	1.92	0.78	19.7	2.51	<5	1.0	0.76
W870521		100.93	0.21	0.23	98.0	6.3	300	0.96	2.67	2.16	0.90	20.4	2.92	<5	1.0	0.72
W870522		100.91	0.12	0.06	54.9	6.5	250	0.63	3.07	1.96	0.75	17.5	2.95	<5	1.1	0.68

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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
W870483		12.8	0.42	3.1	17.4	3.78	26.6	4.06	1	488	0.2	0.67	2.91	0.42	1.41	152
W870484		9.9	0.23	6.0	10.7	2.56	5.0	2.78	2	66.7	0.4	0.46	1.86	0.22	0.91	182
W870485		3.4	0.36	2.6	6.5	1.28	16.2	1.93	<1	185.0	0.2	0.55	0.16	0.35	0.06	394
W870486		1.8	0.31	0.9	4.7	0.88	8.9	1.76	1	183.0	0.1	0.45	0.06	0.27	<0.05	374
W870487		1.2	0.29	0.3	3.9	0.63	5.3	1.83	<1	158.5	<0.1	0.42	<0.05	0.22	<0.05	344
W870488		1.2	0.26	0.4	4.3	0.71	6.4	1.63	<1	180.0	<0.1	0.48	0.07	0.25	<0.05	349
W870489		1.2	0.30	0.7	3.5	0.57	4.9	1.44	<1	102.0	0.1	0.49	0.05	0.30	<0.05	385
W870490		1.2	0.32	0.8	3.5	0.62	8.2	1.62	1	129.0	0.1	0.45	0.10	0.29	0.06	348
W870491		2.7	0.30	0.8	6.5	1.22	8.0	2.27	1	221	0.1	0.45	0.14	0.28	0.12	356
W870492		2.8	0.31	1.1	4.7	0.98	6.5	1.53	<1	176.5	0.1	0.47	0.92	0.27	0.28	312
W870493		1.5	0.29	0.8	4.5	0.74	8.5	1.65	<1	207	0.1	0.46	<0.05	0.29	<0.05	357
W870494		2.3	0.34	0.8	5.6	1.05	9.0	2.10	1	213	0.1	0.52	0.07	0.31	<0.05	323
W870495		4.0	0.25	0.7	8.2	1.56	10.5	2.37	1	292	0.1	0.48	0.24	0.25	0.14	300
W870496		3.0	0.33	1.8	6.9	1.34	4.8	2.32	1	205	0.1	0.55	0.18	0.33	<0.05	336
W870497		2.9	0.32	1.0	6.9	1.25	1.7	2.30	1	240	0.1	0.58	0.16	0.31	0.06	334
W870498		3.7	0.35	1.7	7.4	1.34	3.2	2.34	1	170.0	0.1	0.51	0.18	0.31	0.17	343
W870499		2.2	0.35	1.2	5.8	0.97	3.5	2.04	1	206	0.1	0.49	0.09	0.30	<0.05	350
W870500		5.8	0.23	1.9	8.9	1.82	6.3	2.61	<1	276	0.1	0.44	0.58	0.23	0.15	299
W870501		4.6	0.26	0.7	9.0	1.84	9.9	2.61	<1	233	0.1	0.54	0.24	0.27	0.14	310
W870502		2.8	0.26	1.7	5.1	1.14	19.4	1.79	<1	193.0	0.1	0.38	1.35	0.23	1.38	245
W870503		11.7	0.18	7.1	13.5	3.26	16.4	2.71	4	252	0.4	0.41	1.50	0.18	0.49	123
W870504		3.2	0.42	1.8	7.9	1.39	4.6	2.90	1	138.0	<0.1	0.61	0.22	0.35	<0.05	351
W870505		2.2	0.33	1.4	5.4	1.06	4.2	1.64	1	187.0	<0.1	0.51	0.08	0.29	0.05	351
W870506		2.5	0.30	1.3	6.0	1.04	5.3	1.95	1	169.5	0.1	0.46	0.47	0.30	0.57	305
W870507		2.0	0.31	0.7	5.7	0.94	4.6	2.02	1	193.0	0.1	0.46	0.06	0.32	<0.05	339
W870508		2.0	0.32	0.9	5.3	0.94	2.5	2.04	<1	179.5	0.1	0.48	<0.05	0.29	<0.05	364
W870509		0.6	0.29	0.3	3.0	0.41	2.3	1.39	<1	94.4	<0.1	0.42	<0.05	0.28	<0.05	368
W870510		1.1	0.23	0.3	3.3	0.52	7.2	1.18	<1	132.0	<0.1	0.35	0.59	0.25	0.25	331
W870511		0.9	0.25	0.4	3.5	0.53	3.0	1.32	<1	120.5	<0.1	0.37	<0.05	0.30	<0.05	361
W870512		2.4	0.32	1.8	6.1	1.12	4.8	2.13	1	199.5	0.1	0.50	0.30	0.31	0.13	371
W870513		2.3	0.31	1.4	6.0	0.99	4.6	2.21	3	171.5	0.1	0.46	0.20	0.28	0.05	338
W870514		2.1	0.29	1.2	5.6	1.01	5.9	2.11	<1	206	0.1	0.51	0.13	0.29	0.08	337
W870515		1.5	0.33	1.1	4.6	0.74	5.8	1.79	<1	128.0	0.1	0.43	0.76	0.28	0.24	347
W870516		1.5	0.28	0.7	4.1	0.72	4.9	1.63	1	119.5	0.1	0.45	0.47	0.30	0.19	339
W870517		1.4	0.25	1.0	4.6	0.74	7.2	1.78	<1	191.0	0.1	0.41	<0.05	0.24	0.06	353
W870518		2.1	0.32	1.1	5.7	0.96	6.5	2.22	1	180.0	0.1	0.50	0.18	0.30	0.13	341
W870519		1.9	0.29	1.2	5.4	0.92	3.2	1.92	1	167.0	0.1	0.45	0.30	0.31	0.15	337
W870520		1.5	0.29	0.8	5.4	0.84	2.9	1.84	<1	175.5	0.1	0.45	<0.05	0.26	0.05	347
W870521		2.4	0.33	2.6	5.8	0.97	11.3	2.11	1	132.0	0.1	0.43	0.21	0.30	0.13	390
W870522		2.4	0.34	2.0	6.1	1.12	4.7	2.02	<1	102.0	0.1	0.50	0.12	0.29	<0.05	314

***** 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: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870483		6	22.9	2.63	137	0.8	0.05	0.005	0.008	<0.001	0.13	<0.2	0.01	0.04	<0.5	<0.5
W870484		3	14.3	1.53	71	39.7	0.31	0.128	0.049	0.016	1.29	12.9	1.27	0.06	2.6	1.2
W870485		3	19.5	2.23	32	0.6	0.02	<0.005	0.012	<0.001	<0.05	0.4	0.02	<0.02	<0.5	<0.5
W870486		1	17.0	1.86	19	0.3	0.02	<0.005	0.011	0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W870487		1	15.1	1.80	11	0.3	0.02	<0.005	0.010	0.001	<0.05	0.3	0.02	<0.02	<0.5	<0.5
W870488		2	15.9	1.77	12	0.2	0.02	<0.005	0.009	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.6
W870489		1	16.9	2.10	13	0.2	0.01	<0.005	0.010	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.7
W870490		1	16.5	1.89	14	0.4	0.01	<0.005	0.009	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.5
W870491		1	17.1	1.85	32	0.4	0.03	<0.005	0.009	<0.001	<0.05	<0.2	0.06	<0.02	<0.5	<0.5
W870492		1	15.2	1.72	44	0.2	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870493		2	16.4	1.92	21	0.3	0.01	<0.005	0.011	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870494		1	19.0	1.87	26	0.3	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870495		1	14.8	1.54	28	0.5	0.01	<0.005	0.009	0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870496		6	20.0	2.18	47	0.4	0.01	<0.005	0.009	<0.001	<0.05	0.5	0.02	<0.02	<0.5	<0.5
W870497		3	19.0	1.98	38	0.1	0.01	<0.005	0.011	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870498		4	18.5	1.90	41	0.1	0.02	<0.005	0.012	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870499		1	17.5	1.97	31	0.5	0.01	<0.005	0.009	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.5
W870500		1	14.3	1.45	41	0.4	0.02	<0.005	0.009	0.001	<0.05	0.5	0.02	<0.02	<0.5	<0.5
W870501		1	16.2	1.60	35	0.7	0.03	<0.005	0.012	<0.001	<0.05	0.4	0.03	<0.02	<0.5	0.5
W870502		1	15.1	1.77	48	0.6	0.02	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870503		3	13.2	1.32	98	3.5	0.71	0.007	0.063	0.005	0.31	5.3	0.45	0.09	2.0	0.7
W870504		7	21.6	2.39	57	0.6	0.03	0.006	0.012	0.001	<0.05	0.8	0.04	<0.02	<0.5	<0.5
W870505		103	18.1	2.08	33	0.6	0.02	0.021	0.010	0.001	<0.05	0.3	0.02	0.02	<0.5	<0.5
W870506		1	16.3	1.98	23	0.6	0.02	<0.005	0.009	0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5
W870507		7	17.8	2.11	27	0.6	0.03	<0.005	0.011	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.7
W870508		1	17.8	1.92	22	0.4	0.02	<0.005	0.010	<0.001	<0.05	0.5	0.02	<0.02	<0.5	<0.5
W870509		<1	15.4	1.95	6	0.3	0.01	<0.005	0.009	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.5
W870510		1	13.7	1.64	10	0.2	0.01	<0.005	0.009	0.001	<0.05	<0.2	0.02	<0.02	<0.5	<0.5
W870511		1	14.2	1.68	16	0.2	0.02	<0.005	0.011	0.001	<0.05	0.3	0.02	<0.02	<0.5	0.5
W870512		3	18.2	2.24	32	0.2	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870513		1	17.7	2.01	28	0.4	0.02	<0.005	0.009	0.001	<0.05	0.3	0.02	<0.02	<0.5	0.5
W870514		2	18.3	2.26	24	0.7	0.02	<0.005	0.011	<0.001	<0.05	0.3	0.01	<0.02	<0.5	0.6
W870515		1	17.0	2.11	19	0.4	0.01	<0.005	0.010	<0.001	<0.05	0.3	0.01	<0.02	<0.5	1.7
W870516		1	16.4	1.89	19	0.3	0.01	<0.005	0.008	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.0
W870517		2	15.8	1.87	14	0.4	0.02	<0.005	0.009	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.9
W870518		1	17.1	1.97	35	0.4	0.01	<0.005	0.007	<0.001	<0.05	0.3	0.02	<0.02	<0.5	1.3
W870519		11	16.8	2.04	19	0.2	0.02	<0.005	0.008	<0.001	<0.05	0.3	0.01	<0.02	<0.5	1.1
W870520		1	16.8	2.00	17	0.3	0.01	0.006	0.008	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.9
W870521		2	17.5	2.20	26	0.6	0.05	0.006	0.009	0.005	<0.05	0.8	0.05	<0.02	<0.5	1.0
W870522		1	18.2	2.02	26	0.2	0.01	<0.005	0.008	0.003	<0.05	<0.2	0.01	<0.02	<0.5	0.9

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

Finalized Date: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870483		13	93	10	2	7	9	17	63	<0.001	<0.005	<0.001	0.026
W870484		158	5730	40	3	2230	8	26	83	0.107	0.722	0.367	11.85
W870485		55	117	20	<1	148	5	50	104	<0.001	<0.005	<0.001	0.233
W870486		59	113	20	<1	137	4	48	114	<0.001	<0.005	<0.001	0.182
W870487		55	104	30	<1	131	2	48	103	<0.001	<0.005	<0.001	0.234
W870488		52	57	10	<1	121	7	44	114	<0.001	<0.005	<0.001	0.083
W870489		56	143	10	<1	103	3	47	122	<0.001	<0.005	<0.001	0.222
W870490		54	132	20	<1	112	2	47	123	<0.001	<0.005	<0.001	0.241
W870491		52	99	10	<1	138	3	50	101	<0.001	0.027	0.058	0.132
W870492		51	100	10	<1	114	<2	46	101	<0.001	<0.005	<0.001	0.138
W870493		52	160	20	<1	117	6	46	112	0.003	<0.005	<0.001	0.187
W870494		53	149	10	<1	116	5	47	98	<0.001	<0.005	<0.001	0.176
W870495		45	111	10	<1	103	3	48	85	<0.001	<0.005	<0.001	0.243
W870496		50	152	10	<1	111	6	45	101	<0.001	<0.005	<0.001	0.312
W870497		48	115	10	<1	106	4	44	101	<0.001	<0.005	0.002	0.266
W870498		55	102	10	<1	130	3	46	106	<0.001	<0.005	0.010	0.212
W870499		50	124	10	<1	121	3	46	93	<0.001	<0.005	<0.001	0.219
W870500		52	142	10	<1	117	6	37	95	0.001	0.005	0.015	0.287
W870501		44	269	10	<1	124	5	44	84	0.001	0.023	0.071	0.344
W870502		37	120	10	<1	86	10	33	86	<0.001	<0.005	<0.001	0.300
W870503		115	4500	20	5	4400	28	12	104	0.088	0.317	0.627	4.72
W870504		50	407	10	<1	173	<2	49	135	0.006	0.039	0.200	0.657
W870505		48	127	10	2	120	5	46	98	<0.001	<0.005	<0.001	0.240
W870506		47	129	10	1	121	2	41	95	<0.001	<0.005	<0.001	0.309
W870507		50	150	10	<1	127	2	41	99	<0.001	<0.005	<0.001	0.245
W870508		53	150	10	<1	129	<2	44	104	<0.001	<0.005	<0.001	0.330
W870509		53	131	10	<1	105	4	45	115	<0.001	<0.005	0.001	0.281
W870510		54	113	20	<1	142	3	41	102	<0.001	0.009	0.007	0.197
W870511		56	133	10	<1	128	<2	44	106	<0.001	0.005	0.001	0.299
W870512		52	80	10	1	123	3	43	103	<0.001	<0.005	<0.001	0.131
W870513		52	111	20	<1	117	7	44	124	<0.001	<0.005	<0.001	0.187
W870514		53	168	30	<1	118	7	45	163	0.001	<0.005	<0.001	0.277
W870515		50	110	20	<1	101	5	43	142	<0.001	<0.005	<0.001	0.212
W870516		50	136	20	<1	117	7	44	119	<0.001	0.005	0.004	0.316
W870517		58	130	30	<1	137	<2	47	110	<0.001	<0.005	<0.001	0.233
W870518		50	120	10	<1	121	6	43	102	<0.001	<0.005	<0.001	0.245
W870519		57	103	10	<1	138	3	47	113	<0.001	<0.005	<0.001	0.212
W870520		56	121	10	<1	123	4	46	105	<0.001	<0.005	<0.001	0.214
W870521		62	313	20	1	160	<2	50	100	0.005	0.028	0.089	0.577
W870522		56	104	10	<1	127	4	45	106	<0.001	<0.005	<0.001	0.139

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

Finalized Date: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870523		0.04	62.4	16.70	6.02	6.26	2.76	3.31	1.49	<0.01	0.49	0.12	0.12	0.05	0.07	1.04
W870524		2.67	48.3	14.70	12.60	12.95	6.38	1.96	0.26	0.03	0.80	0.23	0.04	0.01	0.01	1.56
W870525		2.59	48.6	15.05	13.20	10.75	6.99	2.59	0.22	0.04	0.96	0.22	0.03	0.02	0.01	1.03
W870526		2.61	44.1	13.40	13.90	14.75	7.38	1.32	0.32	0.03	0.94	0.26	0.08	0.01	0.01	1.90
W870527		2.51	30.5	8.02	12.05	23.1	10.90	0.33	0.12	0.02	0.52	0.29	0.04	<0.01	<0.01	13.35
W870528		2.75	46.8	15.05	12.95	13.45	5.99	2.12	0.24	0.04	0.97	0.26	0.05	0.01	0.01	1.20
W870529		2.70	46.2	14.30	13.40	12.60	6.58	2.32	0.22	0.04	0.93	0.25	0.07	0.01	0.01	1.09
W870530		2.60	46.1	14.55	14.30	13.45	6.82	2.10	0.12	0.04	0.96	0.27	0.06	0.01	0.01	1.06
W870531		2.75	47.8	15.00	13.85	12.45	6.68	2.41	0.12	0.04	0.98	0.24	0.05	0.02	0.01	0.56
W870532		2.52	47.4	14.95	13.20	12.95	6.26	2.25	0.13	0.04	0.98	0.26	0.04	0.02	0.01	1.21
W870533		2.67	48.0	14.75	13.50	13.10	6.22	2.05	0.14	0.04	0.96	0.25	0.04	0.01	0.01	0.85
W870534		2.47	45.0	15.75	13.20	13.40	5.83	1.81	0.26	0.04	1.00	0.28	0.05	0.01	0.01	2.07
W870535		2.58	47.3	15.50	12.00	13.80	5.15	1.93	0.23	0.04	1.00	0.28	0.05	0.01	0.01	1.74
W870536		2.74	48.2	14.40	12.50	14.60	5.37	1.93	0.15	0.04	0.95	0.27	0.04	0.01	0.01	1.12
W870537		2.65	47.4	15.20	13.10	14.60	5.73	1.81	0.15	0.04	1.01	0.29	0.06	0.01	0.01	1.40
W870538		2.50	48.3	16.10	13.10	13.45	5.63	1.97	0.15	0.04	1.02	0.27	0.06	0.01	0.01	0.52
W870539		2.65	48.1	15.10	13.00	14.35	5.50	1.80	0.09	0.04	0.97	0.27	0.06	0.01	<0.01	0.54
W870540		2.58	46.5	15.75	13.75	13.20	5.90	1.68	0.17	0.04	0.99	0.30	0.05	0.01	0.01	1.27
W870541		2.76	45.5	15.20	16.65	12.95	5.84	1.55	0.19	0.05	1.06	0.36	0.09	0.01	<0.01	1.10
W870542		2.46	62.7	13.00	8.45	8.50	3.46	3.03	0.97	0.02	0.45	0.21	0.03	0.01	0.01	0.82
W870543		0.04	41.9	9.11	15.15	15.50	10.75	0.66	0.24	0.10	0.69	0.14	0.11	<0.01	0.03	4.22
W870544		2.42	48.1	13.80	12.95	10.25	6.51	2.07	0.46	0.03	0.83	0.22	0.06	0.01	0.01	0.95
W870545		2.66	48.1	14.30	14.45	10.85	7.74	2.00	0.32	0.04	0.98	0.22	0.05	0.01	0.01	1.07
W870546		2.66	46.1	14.30	13.95	10.90	7.74	1.79	0.26	0.04	0.93	0.22	0.08	0.02	0.01	1.43
W870547		2.61	47.1	14.35	14.00	10.85	7.44	1.90	0.21	0.03	0.96	0.23	0.05	0.01	<0.01	1.40
W870548		2.59	49.2	15.25	13.35	13.05	5.31	2.24	0.18	0.04	1.07	0.25	0.07	0.01	0.01	1.07
W870549		2.57	49.8	15.35	13.10	13.00	5.21	2.25	0.20	0.04	1.02	0.25	0.06	0.01	0.01	1.03
W870550		2.65	47.8	15.10	13.60	13.35	5.26	1.75	0.26	0.04	0.98	0.26	0.13	0.02	0.01	1.56
W870551		2.58	47.3	14.95	13.50	13.20	5.27	1.87	0.24	0.04	1.00	0.30	0.07	0.02	0.01	1.46
W870552		2.61	47.0	15.30	13.70	13.25	5.09	1.85	0.24	0.05	0.97	0.27	0.07	0.02	0.01	1.58
W870553		2.68	48.2	15.05	13.70	12.80	5.29	2.04	0.26	0.05	1.05	0.26	0.07	0.02	0.01	1.57
W870554		2.76	47.7	15.65	13.15	14.35	4.88	1.87	0.17	0.05	0.99	0.26	0.07	0.02	0.01	1.61
W870555		2.63	47.4	14.50	13.30	12.35	6.54	1.90	0.21	0.04	0.96	0.23	0.05	0.02	<0.01	1.31
W870556		2.66	45.1	13.60	13.15	10.90	7.12	1.84	0.23	0.03	0.90	0.22	0.05	0.02	<0.01	1.35
W870557		2.62	47.5	13.55	14.30	12.60	8.07	1.39	0.24	0.03	0.90	0.23	0.04	0.02	<0.01	1.48
W870558		2.55	47.1	13.90	15.70	10.45	7.92	2.08	0.16	0.02	0.85	0.24	0.04	0.01	<0.01	2.65
W870559		2.66	46.0	13.30	14.25	12.05	7.39	1.55	0.21	0.02	0.87	0.22	0.04	0.01	<0.01	2.31
W870560		0.09	48.2	12.80	21.5	6.51	6.70	2.22	0.65	0.03	1.27	0.20	0.16	0.03	0.02	1.27

***** 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: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870523		100.83	0.03	0.03	590	27.9	10	0.62	3.65	2.23	0.89	17.8	3.96	<5	3.4	0.81
W870524		99.83	0.26	0.10	74.2	5.0	210	0.59	2.50	1.89	0.74	19.3	2.43	<5	1.2	0.63
W870525		99.71	0.10	0.08	58.0	4.3	280	0.42	2.54	1.88	0.79	20.2	2.34	<5	0.7	0.68
W870526		98.40	0.34	0.16	89.3	9.7	230	0.62	3.60	2.36	0.91	18.9	3.18	<5	1.6	0.85
W870527		99.24	3.20	0.19	43.4	7.6	150	0.26	2.31	1.52	0.53	12.4	2.01	<5	1.1	0.54
W870528		99.14	0.18	0.10	66.8	6.4	320	0.44	3.40	2.42	0.83	20.8	3.16	<5	1.2	0.81
W870529		98.02	0.13	0.06	91.5	7.3	300	0.39	3.12	2.17	0.79	20.1	2.97	<5	1.1	0.72
W870530		99.85	0.18	0.12	64.4	5.7	300	0.33	3.16	2.11	0.68	20.1	2.70	<5	1.0	0.70
W870531		100.21	0.12	0.12	94.9	5.8	320	0.24	3.31	2.04	0.78	20.7	3.06	<5	0.9	0.73
W870532		99.70	0.21	0.09	63.5	5.1	320	0.28	3.10	2.09	0.83	20.9	2.66	<5	1.0	0.72
W870533		99.92	0.15	0.11	55.4	5.7	320	0.15	3.40	2.42	0.86	20.7	2.97	<5	1.1	0.79
W870534		98.71	0.22	0.05	60.0	5.7	330	0.62	3.05	2.05	0.86	21.8	2.62	<5	1.1	0.68
W870535		99.04	0.21	0.05	64.1	5.7	340	0.55	3.26	2.29	0.86	21.9	3.01	<5	1.0	0.77
W870536		99.59	0.21	0.05	44.5	5.6	290	0.26	3.03	1.88	0.82	18.2	2.30	<5	1.0	0.67
W870537		100.81	0.20	0.08	48.1	6.2	320	0.45	3.12	1.95	0.88	19.0	2.78	<5	1.1	0.74
W870538		100.63	0.10	0.05	42.8	5.5	320	0.36	3.07	2.16	0.84	19.1	2.65	<5	0.9	0.70
W870539		99.83	0.10	0.04	36.7	5.3	300	0.23	3.31	1.94	0.85	18.2	2.53	<5	1.0	0.70
W870540		99.62	0.12	0.08	45.2	5.0	300	0.61	2.72	1.80	0.80	18.0	2.37	<5	0.9	0.62
W870541		100.55	0.10	0.39	37.6	5.6	320	1.10	2.78	1.71	0.66	19.4	2.31	<5	1.1	0.64
W870542		101.66	0.06	0.26	62.6	21.4	110	1.33	1.86	1.26	0.44	15.1	1.90	<5	2.4	0.38
W870543		98.60	0.23	2.55	277	20.9	760	0.44	2.51	1.35	0.76	12.0	2.65	<5	2.0	0.55
W870544		96.25	0.07	0.03	99.0	14.1	230	1.47	2.59	1.74	0.80	16.7	2.35	<5	1.2	0.59
W870545		100.14	0.04	0.09	49.2	5.5	260	1.64	2.48	1.55	0.84	17.4	2.11	<5	0.7	0.58
W870546		97.77	0.11	0.05	51.5	6.3	250	0.77	2.42	1.65	0.81	16.5	2.27	<5	0.7	0.55
W870547		98.53	0.10	0.11	34.6	4.0	250	0.57	2.75	1.59	0.70	16.6	2.10	<5	0.7	0.63
W870548		101.10	0.18	0.09	42.4	6.0	300	0.34	3.31	2.09	0.94	18.5	2.78	<5	0.9	0.68
W870549		101.33	0.13	0.06	62.9	6.9	310	0.43	3.34	2.06	0.87	19.6	2.73	<5	1.0	0.80
W870550		100.12	0.20	0.11	55.8	9.6	250	0.66	3.78	2.58	1.05	19.7	3.28	<5	1.5	0.91
W870551		99.23	0.16	0.08	55.0	6.2	260	0.80	3.20	1.88	0.79	17.6	2.54	<5	1.1	0.65
W870552		99.40	0.23	0.12	48.3	5.4	350	0.69	2.75	1.69	0.78	17.1	2.13	<5	0.9	0.58
W870553		100.37	0.23	0.10	54.7	5.9	360	0.95	3.15	1.99	0.77	18.6	2.70	<5	1.0	0.73
W870554		100.78	0.22	0.10	57.3	6.4	340	0.66	2.97	1.87	0.83	18.0	2.43	<5	1.1	0.67
W870555		98.81	0.15	0.05	41.5	5.0	270	0.72	2.91	1.77	0.79	17.2	2.41	<5	0.9	0.62
W870556		94.51	0.11	0.10	33.4	4.6	260	0.73	2.37	1.74	0.73	16.2	2.25	<5	0.7	0.62
W870557		100.35	0.12	0.09	40.1	4.4	250	0.89	2.61	1.84	0.71	16.6	2.29	<5	0.8	0.61
W870558		101.12	0.11	0.06	33.4	3.1	170	0.65	2.16	1.59	0.61	16.3	1.67	<5	0.5	0.51
W870559		98.22	0.28	0.08	39.0	3.2	170	0.98	2.55	1.60	0.65	15.4	1.88	<5	0.6	0.54
W870560		101.56	0.08	1.72	222	29.4	260	1.14	2.56	1.38	1.17	17.3	2.88	<5	2.7	0.53

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

Finalized Date: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870523		12.1	0.44	3.1	17.3	3.79	26.0	4.27	1	466	0.2	0.58	2.67	0.36	1.30	144
W870524		1.9	0.28	1.1	4.6	0.84	6.1	1.68	1	142.0	0.1	0.39	0.23	0.30	0.15	294
W870525		1.5	0.30	0.8	4.6	0.76	3.9	1.61	<1	203	0.1	0.45	<0.05	0.24	<0.05	356
W870526		3.7	0.40	2.6	8.1	1.51	8.2	2.89	1	139.0	0.2	0.56	0.19	0.39	0.09	318
W870527		3.2	0.23	1.8	5.3	0.98	3.0	1.54	1	69.4	0.1	0.36	0.13	0.22	0.08	173
W870528		2.2	0.32	1.3	6.2	0.98	5.3	2.37	1	136.5	0.1	0.57	0.06	0.29	<0.05	361
W870529		2.7	0.31	1.6	6.3	1.11	4.3	2.36	1	175.0	0.1	0.49	0.07	0.33	<0.05	339
W870530		2.0	0.31	1.1	5.6	0.87	1.4	2.17	1	163.0	0.1	0.45	0.07	0.28	<0.05	333
W870531		2.0	0.29	1.0	6.2	1.00	1.2	2.17	<1	183.5	0.1	0.49	<0.05	0.33	<0.05	358
W870532		1.7	0.32	0.8	5.5	0.86	2.5	2.10	<1	189.5	0.1	0.45	<0.05	0.28	<0.05	355
W870533		1.9	0.33	0.9	6.1	1.00	2.0	2.33	<1	156.0	0.1	0.53	<0.05	0.32	<0.05	350
W870534		2.0	0.31	1.6	5.7	0.95	6.9	2.28	<1	125.5	0.1	0.46	<0.05	0.29	<0.05	367
W870535		2.1	0.35	1.7	5.6	0.98	7.2	2.09	1	136.0	0.2	0.49	0.46	0.29	0.19	371
W870536		1.8	0.29	1.2	5.2	0.97	2.4	1.86	<1	119.5	<0.1	0.48	0.06	0.27	<0.05	340
W870537		2.0	0.30	1.4	5.8	1.06	4.0	2.20	1	126.5	0.1	0.48	<0.05	0.29	<0.05	368
W870538		1.8	0.31	1.4	5.5	1.01	3.0	1.72	<1	117.5	0.1	0.49	0.07	0.30	<0.05	379
W870539		1.8	0.30	1.2	5.2	1.04	1.6	1.98	<1	112.0	<0.1	0.47	<0.05	0.30	<0.05	350
W870540		1.6	0.28	1.4	4.8	0.89	4.7	1.75	<1	105.5	0.1	0.43	<0.05	0.27	<0.05	344
W870541		2.2	0.26	1.6	4.6	0.90	6.2	1.81	<1	90.3	0.1	0.44	0.09	0.27	<0.05	382
W870542		11.1	0.21	3.9	8.6	2.38	32.7	1.71	1	64.1	0.4	0.30	8.26	0.18	2.69	136
W870543		10.1	0.22	6.1	10.9	2.62	5.0	2.28	2	67.6	0.3	0.45	2.02	0.20	0.97	183
W870544		7.1	0.26	1.4	7.5	1.84	10.2	1.98	<1	148.5	0.1	0.45	1.20	0.24	0.69	311
W870545		2.0	0.26	1.1	4.6	0.87	9.9	1.54	1	135.0	<0.1	0.38	0.10	0.23	0.12	356
W870546		2.4	0.24	0.9	5.1	1.05	6.7	1.56	<1	172.0	<0.1	0.38	0.09	0.20	0.08	346
W870547		1.3	0.24	0.7	3.7	0.74	5.1	1.60	2	135.5	<0.1	0.39	<0.05	0.24	<0.05	344
W870548		2.0	0.31	1.5	5.7	1.02	3.8	2.08	1	134.5	0.1	0.46	0.05	0.30	0.07	367
W870549		2.5	0.31	1.4	5.7	1.20	3.8	2.10	<1	146.5	0.1	0.53	0.10	0.29	0.05	392
W870550		3.5	0.38	2.8	8.1	1.51	5.3	2.82	<1	157.0	0.1	0.58	0.12	0.35	0.33	333
W870551		2.2	0.31	1.8	5.2	1.07	5.7	1.93	<1	161.5	0.1	0.46	<0.05	0.30	0.05	351
W870552		2.0	0.28	1.4	4.7	0.93	5.1	1.53	<1	139.0	0.1	0.37	0.05	0.25	<0.05	328
W870553		2.1	0.30	1.2	5.3	0.97	6.1	1.80	2	152.0	<0.1	0.47	0.08	0.30	0.08	373
W870554		2.2	0.26	1.6	5.5	1.05	4.5	1.75	<1	188.0	0.1	0.44	0.07	0.26	<0.05	327
W870555		1.7	0.27	0.8	4.6	0.79	4.7	1.68	<1	174.0	<0.1	0.41	<0.05	0.23	0.05	356
W870556		1.6	0.26	0.7	4.5	0.87	4.3	1.52	<1	164.5	<0.1	0.40	0.05	0.26	<0.05	347
W870557		1.5	0.25	0.7	4.3	0.74	6.3	1.48	<1	139.5	<0.1	0.44	<0.05	0.25	<0.05	334
W870558		1.0	0.23	0.5	3.1	0.59	4.0	1.23	<1	72.2	<0.1	0.35	<0.05	0.22	<0.05	338
W870559		1.1	0.23	0.6	3.6	0.61	5.4	1.33	<1	87.9	<0.1	0.36	<0.05	0.26	<0.05	336
W870560		13.6	0.20	7.4	15.2	3.61	17.5	3.07	4	285	0.5	0.44	1.59	0.21	0.44	138

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

Finalized Date: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870523		5	21.6	2.50	119	0.7	0.05	<0.005	0.008	0.001	0.11	<0.2	<0.01	0.04	<0.5	<0.5
W870524		15	15.6	1.65	34	0.5	0.03	0.007	0.008	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.4
W870525		1	15.2	1.85	12	0.3	0.02	<0.005	0.010	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.1
W870526		1	21.3	2.49	44	0.3	0.03	0.005	0.009	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.1
W870527		7	15.1	1.68	33	0.7	0.18	0.007	0.010	0.001	<0.05	0.5	0.34	<0.02	<0.5	1.1
W870528		2	19.5	2.09	29	0.5	0.02	0.005	0.010	<0.001	<0.05	0.4	<0.01	<0.02	<0.5	1.4
W870529		1	18.1	2.18	27	0.5	0.02	<0.005	0.010	<0.001	<0.05	0.2	0.02	<0.02	<0.5	1.0
W870530		1	17.7	2.16	21	0.5	0.01	0.005	0.012	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.0
W870531		<1	18.6	2.15	20	0.3	0.03	<0.005	0.011	0.001	<0.05	0.4	0.06	<0.02	<0.5	1.3
W870532		3	17.6	2.12	21	0.3	0.02	<0.005	0.009	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.8
W870533		1	19.3	2.34	22	0.4	0.05	0.005	0.011	0.001	<0.05	0.5	0.07	<0.02	<0.5	1.3
W870534		4	17.9	2.06	25	0.2	0.02	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.8
W870535		157	18.6	2.16	25	0.4	0.03	0.019	0.009	0.002	<0.05	0.3	0.01	0.03	<0.5	1.0
W870536		3	18.2	1.80	28	0.2	0.01	<0.005	0.008	0.002	<0.05	0.2	0.01	<0.02	<0.5	1.0
W870537		2	19.8	2.02	33	0.7	0.02	<0.005	0.008	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.8
W870538		1	19.1	2.09	27	0.4	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.3
W870539		1	19.5	1.88	30	0.4	0.01	<0.005	0.007	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.5
W870540		1	17.4	1.74	27	0.2	0.01	<0.005	0.010	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.3
W870541		1	18.2	1.84	32	1.0	0.03	<0.005	0.012	0.001	<0.05	0.9	0.04	0.03	<0.5	1.6
W870542		1	12.6	1.35	67	0.6	0.09	0.007	0.010	0.001	<0.05	0.7	0.17	0.05	<0.5	0.6
W870543		1	15.0	1.39	82	42.9	0.34	0.127	0.051	0.016	1.33	12.1	1.36	0.07	2.7	1.9
W870544		1	15.6	1.63	34	0.9	0.09	0.005	0.011	<0.001	0.06	0.2	0.05	0.03	<0.5	1.1
W870545		1	15.0	1.51	18	0.3	0.06	<0.005	0.008	0.001	<0.05	0.4	0.06	0.03	<0.5	1.1
W870546		1	15.4	1.56	17	0.2	0.02	<0.005	0.010	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.1
W870547		1	15.5	1.74	16	0.3	0.02	<0.005	0.010	0.002	<0.05	0.3	0.02	<0.02	<0.5	1.2
W870548		1	19.7	2.07	28	0.3	0.01	<0.005	0.007	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.1
W870549		1	19.9	2.18	30	0.1	0.01	<0.005	0.007	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.4
W870550		154	22.2	2.39	55	0.3	0.06	0.033	0.010	0.001	<0.05	0.2	0.09	0.02	<0.5	1.1
W870551		10	18.9	1.96	34	0.2	0.02	<0.005	0.009	0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870552		12	16.6	2.03	27	0.3	0.05	0.005	0.010	0.001	<0.05	0.4	0.07	<0.02	<0.5	0.5
W870553		1	18.8	2.05	27	0.2	0.03	<0.005	0.010	0.001	<0.05	0.3	0.04	<0.02	<0.5	<0.5
W870554		1	18.2	2.03	33	0.3	0.01	<0.005	0.009	0.002	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870555		<1	17.2	1.76	23	0.3	0.01	<0.005	0.006	0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
W870556		2	16.5	1.79	20	0.2	0.01	<0.005	0.010	0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W870557		2	16.3	1.72	21	0.2	0.01	<0.005	0.007	<0.001	<0.05	0.4	0.01	<0.02	<0.5	0.5
W870558		1	14.0	1.51	14	0.3	0.02	<0.005	0.011	0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W870559		1	15.0	1.70	16	0.3	0.02	<0.005	0.011	0.001	<0.05	0.4	0.02	<0.02	<0.5	<0.5
W870560		4	14.5	1.42	112	4.3	0.69	0.011	0.065	0.004	0.28	5.0	0.49	0.10	2.0	1.1

***** 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: 11-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042515

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
W870523		14	99	10	2	8	8	17	66	0.009	<0.005	0.003	0.025
W870524		52	146	10	<1	115	2	37	107	<0.001	<0.005	0.003	0.247
W870525		55	152	10	<1	128	<2	42	106	<0.001	<0.005	<0.001	0.229
W870526		49	202	20	<1	105	4	40	112	0.001	<0.005	0.003	0.395
W870527		38	582	10	<1	192	<2	22	90	0.029	0.092	0.392	0.569
W870528		57	155	10	<1	151	4	46	108	0.001	<0.005	0.008	0.280
W870529		58	175	20	<1	152	<2	42	122	0.001	<0.005	0.012	0.186
W870530		55	160	20	<1	150	3	44	138	<0.001	<0.005	<0.001	0.333
W870531		61	321	10	<1	202	4	45	111	0.011	0.016	0.139	0.434
W870532		56	158	20	<1	153	<2	43	103	<0.001	<0.005	0.001	0.262
W870533		55	478	10	<1	188	<2	44	108	0.014	0.025	0.155	0.352
W870534		55	72	20	<1	155	3	44	114	<0.001	<0.005	<0.001	0.115
W870535		55	105	20	<1	151	4	45	98	<0.001	<0.005	<0.001	0.158
W870536		54	76	10	1	143	3	43	174	0.003	<0.005	<0.001	0.127
W870537		56	143	10	<1	154	2	46	109	<0.001	<0.005	<0.001	0.237
W870538		57	115	10	<1	164	<2	47	109	<0.001	<0.005	0.018	0.183
W870539		57	99	10	<1	157	<2	45	108	<0.001	<0.005	0.004	0.119
W870540		58	124	20	<1	160	4	46	121	<0.001	<0.005	0.005	0.232
W870541		70	228	30	<1	261	<2	48	177	0.005	<0.005	0.088	0.768
W870542		34	565	20	<1	129	10	20	80	0.003	0.010	0.134	0.721
W870543		156	5710	40	2	2220	8	25	79	0.111	0.704	0.365	11.05
W870544		50	149	20	<1	145	<2	45	112	0.008	0.078	0.156	0.124
W870545		54	160	20	<1	136	3	45	114	0.001	0.011	0.075	0.227
W870546		54	136	20	<1	119	5	45	114	<0.001	<0.005	0.014	0.170
W870547		56	151	20	<1	120	4	45	112	<0.001	<0.005	<0.001	0.291
W870548		55	105	10	<1	131	<2	48	108	<0.001	<0.005	0.001	0.199
W870549		56	125	10	<1	130	3	47	105	<0.001	<0.005	<0.001	0.228
W870550		57	168	10	<1	136	2	46	118	<0.001	0.010	0.062	0.281
W870551		51	120	20	<1	114	7	44	111	<0.001	<0.005	<0.001	0.170
W870552		55	201	20	<1	162	<2	47	110	0.003	0.010	0.097	0.291
W870553		56	127	10	<1	151	6	48	108	<0.001	<0.005	0.013	0.279
W870554		52	146	20	<1	131	3	45	101	<0.001	<0.005	<0.001	0.275
W870555		54	108	10	3	125	<2	45	104	<0.001	<0.005	<0.001	0.171
W870556		59	135	10	<1	154	6	46	107	<0.001	<0.005	<0.001	0.290
W870557		55	119	10	<1	151	6	42	103	<0.001	<0.005	<0.001	0.251
W870558		57	89	40	<1	119	6	44	105	<0.001	0.009	0.010	0.189
W870559		54	144	20	<1	109	3	41	106	0.002	0.009	0.019	0.238
W870560		114	4580	20	4	4430	23	12	106	0.066	0.268	0.613	4.42

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

Finalized Date: 11-MAR-2018
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CERTIFICATE OF ANALYSIS TB18042515

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		