ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18012299

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-JAN-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 TB18012299

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
W443469		1.12	20.2	0.23	0.16	26.2	21.0	0.23	0.11	<0.01	0.01	0.05	<0.01	0.01	0.04	30.2
W443470		0.04	42.6	8.89	15.20	16.10	10.60	0.63	0.23	0.11	0.70	0.15	0.13	<0.01	0.03	4.45
W443471		2.07	73.2	13.05	2.07	1.95	0.72	4.48	1.43	<0.01	0.23	0.05	0.06	0.01	0.04	1.10
W443472		2.16	68.1	13.65	3.78	3.81	2.48	4.51	1.27	0.01	0.37	0.08	0.18	0.03	0.04	1.36
W443473		2.07	76.3	12.30	2.38	2.00	0.91	3.87	1.21	<0.01	0.23	0.06	0.08	0.02	0.03	1.13
W443474		1.72	73.7	13.05	2.11	1.96	0.80	4.04	1.63	<0.01	0.24	0.05	0.07	0.02	0.04	0.93
W443475		2.54	51.3	13.30	16.10	8.64	5.78	2.31	0.59	0.01	1.46	0.32	0.13	0.02	0.02	1.00
W443476		2.46	49.1	13.25	15.70	8.31	6.00	2.25	0.65	0.01	1.34	0.28	0.11	0.03	0.02	0.98
W443477		1.75	75.4	11.90	2.18	2.10	1.00	3.50	1.16	<0.01	0.21	0.05	0.05	0.02	0.04	1.02
W443478		1.78	76.4	13.05	2.10	2.40	0.82	3.68	1.54	<0.01	0.24	0.06	0.07	0.02	0.04	1.13
W443479		2.11	73.5	12.75	2.40	2.38	0.94	3.57	1.32	<0.01	0.22	0.07	0.06	0.03	0.04	1.32
W443480		2.32	75.3	13.00	2.12	2.28	0.51	3.90	1.43	<0.01	0.23	0.06	0.07	0.03	0.04	1.25
W443481		2.26	50.0	12.70	18.25	8.05	5.20	1.79	0.66	0.01	1.96	0.32	0.20	0.02	0.02	0.66
W443482		2.25	48.5	12.85	18.45	8.52	4.87	1.75	0.61	0.01	2.00	0.31	0.23	0.03	0.02	0.77
W443483		2.46	51.6	16.10	6.34	9.10	6.19	3.89	1.42	0.02	0.65	0.10	0.55	0.11	0.06	2.06
W443484		2.46	51.4	16.10	6.76	9.55	6.93	3.94	1.16	0.02	0.68	0.11	0.58	0.08	0.05	2.48
W443485		2.34	49.8	15.05	7.02	10.20	7.40	3.52	0.83	0.03	0.67	0.12	0.54	0.06	0.03	2.90
W443486		2.20	53.4	16.10	6.43	7.60	6.10	4.17	1.91	0.02	0.62	0.13	0.51	0.09	0.09	2.27
W443487		2.09	74.8	11.80	3.29	3.33	1.30	3.78	1.10	<0.01	0.23	0.06	0.06	0.04	0.02	1.55
W443488		1.93	74.2	12.10	2.28	2.47	1.00	3.15	1.21	<0.01	0.21	0.07	0.06	0.02	0.03	1.49
W443489		0.04	47.6	12.55	20.2	6.11	6.57	2.17	0.63	0.03	1.24	0.19	0.16	0.03	0.02	1.21
W443490		2.34	70.1	12.10	4.72	3.80	3.71	1.55	1.93	0.01	0.39	0.13	0.06	0.02	0.06	1.89
W443491		2.13	73.4	12.00	2.93	2.67	1.90	0.96	2.36	<0.01	0.21	0.07	0.07	0.02	0.07	2.03
W443492		1.69	77.5	11.75	2.67	1.78	1.70	1.00	3.19	<0.01	0.21	0.06	0.06	0.02	0.09	1.78
W443493		2.41	50.2	14.60	8.93	9.32	10.50	2.26	0.92	0.08	0.70	0.19	0.17	0.05	0.04	2.09
W443494		1.82	49.5	13.45	9.17	9.03	12.45	1.96	0.73	0.11	0.58	0.20	0.16	0.03	0.03	2.12
W443495		2.63	75.2	12.85	1.85	1.89	1.00	1.21	2.41	<0.01	0.22	0.04	0.07	0.02	0.05	1.83
W443496		2.75	75.8	12.05	2.43	2.45	1.10	1.48	1.83	<0.01	0.22	0.06	0.07	0.02	0.04	1.66
W443497		2.13	49.1	14.10	14.85	10.50	5.49	1.49	0.75	0.02	0.98	0.30	0.08	0.03	0.02	0.92
W443498		2.44	48.1	13.70	14.30	10.15	5.89	2.09	0.47	0.02	0.96	0.25	0.08	0.02	0.01	0.91
W443499		3.25	48.6	15.45	14.45	10.25	4.59	2.35	0.55	0.02	1.40	0.26	0.12	0.03	0.02	1.02
W443500		2.52	80.2	11.05	2.07	2.35	1.02	1.63	1.38	<0.01	0.24	0.04	0.06	0.02	0.04	1.52
W443501		3.28	49.2	14.85	14.65	10.40	5.76	1.60	0.81	0.02	1.00	0.28	0.07	0.03	0.02	1.19
W443502		1.61	77.4	11.45	1.53	2.33	0.94	1.63	1.63	<0.01	0.20	0.03	0.05	0.02	0.04	1.51
W443503		1.67	78.2	11.90	1.40	2.36	0.85	1.81	1.73	<0.01	0.21	0.03	0.06	0.01	0.04	1.44
W443504		1.72	51.0	13.40	12.75	11.35	7.61	1.78	0.69	0.02	0.90	0.23	0.07	0.02	0.02	1.32
W443505		2.33	49.4	13.70	12.55	10.50	7.67	1.58	0.58	0.03	0.89	0.23	0.08	0.02	0.01	1.06
W443506		2.33	76.5	12.05	1.67	2.12	0.95	3.94	0.83	<0.01	0.24	0.03	0.07	0.01	0.02	1.16
W443507		1.42	77.4	11.45	2.23	2.48	1.32	3.32	0.98	<0.01	0.27	0.05	0.07	0.01	0.02	1.26
W443508		3.39	48.7	14.50	14.30	8.78	8.85	1.42	0.50	0.04	0.96	0.24	0.09	0.02	0.01	1.05

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Finalized Date: 7-FEB-2018
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Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443469		98.44	8.27	0.01	334	1.8	<10	0.50	0.08	0.04	<0.03	0.4	0.09	<5	<0.2	0.02
W443470		99.82	0.23	2.51	316	22.9	850	0.45	2.85	1.54	0.85	12.4	3.10	<5	2.1	0.55
W443471		98.39	0.04	0.07	353	51.7	10	0.58	0.93	0.43	0.62	18.6	1.38	<5	3.3	0.18
W443472		99.67	0.04	0.22	386	63.3	40	0.49	1.45	0.64	1.12	17.4	2.93	<5	3.5	0.26
W443473		100.52	0.02	0.07	350	52.9	10	0.63	0.97	0.49	0.60	18.2	1.35	<5	3.2	0.15
W443474		98.64	0.03	0.01	402	47.8	10	0.69	0.81	0.43	0.55	17.6	1.31	<5	3.0	0.15
W443475		100.98	0.03	0.14	147.5	15.3	100	0.39	5.05	3.25	1.18	20.2	4.45	<5	2.5	1.12
W443476		98.03	0.03	0.23	177.0	15.1	100	0.54	4.84	3.04	1.13	19.2	4.01	<5	2.3	1.02
W443477		98.63	0.03	0.06	349	47.6	10	0.55	0.77	0.39	0.55	16.1	1.17	<5	2.9	0.15
W443478		101.55	0.02	0.06	411	48.6	10	0.81	0.86	0.39	0.56	16.7	1.30	<5	3.0	0.16
W443479		98.60	0.06	0.07	351	51.1	10	0.84	0.79	0.44	0.60	16.8	1.33	<5	3.0	0.14
W443480		100.22	0.07	0.13	370	48.0	10	0.63	0.74	0.41	0.56	16.7	1.18	<5	3.1	0.13
W443481		99.84	0.02	0.35	174.0	19.9	50	1.84	5.49	3.59	1.45	21.5	4.67	<5	2.8	1.17
W443482		98.92	0.02	0.35	163.5	23.3	50	1.57	5.53	3.35	1.46	21.6	4.97	<5	3.1	1.19
W443483		98.19	0.06	0.21	628	170.5	120	0.86	3.93	1.43	3.27	20.4	8.47	<5	5.9	0.59
W443484		99.84	0.06	0.15	487	179.0	140	5.22	3.95	1.54	3.42	19.9	9.08	<5	6.0	0.62
W443485		98.17	0.05	0.15	338	159.5	200	4.71	4.05	1.33	3.28	19.9	8.59	<5	5.6	0.59
W443486		99.44	0.06	0.14	840	159.5	120	0.60	3.76	1.32	2.99	19.8	7.72	<5	5.8	0.58
W443487		101.36	0.05	0.24	231	53.3	10	0.47	0.87	0.41	0.75	16.4	1.37	<5	2.9	0.15
W443488		98.29	0.06	0.12	285	42.9	10	0.65	0.74	0.44	0.45	16.4	1.07	<5	2.8	0.12
W443489		98.71	0.07	1.73	239	27.9	260	0.96	2.51	1.39	1.12	17.0	2.77	<5	2.4	0.52
W443490		100.47	0.02	0.17	594	34.7	60	2.46	1.37	0.85	0.58	17.0	1.46	<5	2.5	0.27
W443491		98.69	0.02	0.13	667	44.5	10	1.38	0.73	0.38	0.52	16.2	1.14	<5	3.0	0.14
W443492		101.81	<0.01	0.16	847	37.6	10	1.69	0.70	0.34	0.45	14.9	1.02	<5	2.6	0.13
W443493		100.05	0.02	0.05	362	21.7	580	2.35	2.15	1.21	0.81	16.7	2.59	<5	1.8	0.44
W443494		99.52	0.02	0.02	286	21.1	800	1.67	1.94	1.09	0.78	15.7	2.26	<5	1.8	0.36
W443495		98.64	<0.01	0.12	496	46.4	10	1.38	0.65	0.34	0.47	17.9	0.97	<5	3.0	0.12
W443496		99.21	0.02	0.16	369	47.3	10	1.23	0.83	0.40	0.57	15.9	1.21	<5	2.8	0.15
W443497		98.63	0.02	0.15	162.0	9.8	130	0.66	3.39	2.29	0.83	17.2	2.87	<5	1.7	0.72
W443498		96.95	0.02	0.14	112.5	9.7	130	0.38	3.16	2.03	0.74	16.0	2.67	<5	1.5	0.70
W443499		99.11	0.01	0.39	174.5	13.8	130	1.05	4.13	2.56	1.07	20.4	3.42	<5	2.2	0.85
W443500		101.62	0.04	0.04	400	38.6	20	1.10	0.84	0.44	0.51	14.5	1.11	<5	2.5	0.16
W443501		99.88	0.02	0.17	175.0	11.8	140	1.10	3.27	2.23	0.88	19.0	3.04	<5	1.7	0.72
W443502		98.76	0.03	0.02	375	45.6	10	1.13	0.55	0.26	0.48	15.2	0.93	<5	2.7	0.09
W443503		100.04	0.02	0.01	366	33.8	10	0.84	0.49	0.26	0.41	14.9	0.66	<5	2.6	0.09
W443504		101.16	0.01	0.27	172.0	12.9	190	0.78	3.18	2.18	0.91	18.0	2.72	<5	1.5	0.69
W443505		98.30	0.02	0.18	147.5	9.1	200	0.94	3.14	2.14	0.77	18.2	2.74	<5	1.5	0.70
W443506		99.59	0.06	0.02	212	41.5	20	0.60	0.60	0.31	0.49	15.6	1.06	<5	2.7	0.11
W443507		100.86	0.04	0.05	184.0	38.9	30	0.73	0.69	0.42	0.47	15.4	1.00	<5	2.6	0.12
W443508		99.46	0.03	0.20	90.9	9.4	260	1.36	3.40	2.26	0.84	16.0	2.66	<5	1.5	0.81

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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
W443469		1.2	<0.01	<0.2	0.6	0.18	2.9	0.11	<1	141.5	<0.1	0.01	0.28	<0.01	0.35	<5
W443470		11.0	0.22	6.8	11.8	2.85	5.1	2.91	2	70.4	0.4	0.44	2.47	0.24	1.03	190
W443471		27.7	0.08	4.0	16.7	5.34	41.0	2.29	<1	183.0	0.4	0.17	5.31	0.06	1.03	28
W443472		31.3	0.10	4.5	26.6	7.23	22.9	4.43	<1	313	0.3	0.31	5.11	0.08	1.08	49
W443473		28.5	0.09	4.0	16.7	5.45	32.2	2.36	<1	202	0.4	0.19	5.44	0.07	1.11	26
W443474		26.5	0.06	3.8	15.4	4.86	37.5	2.04	<1	204	0.3	0.15	5.10	0.06	1.17	24
W443475		6.1	0.53	4.1	11.4	2.34	11.5	3.54	1	201	0.2	0.80	0.54	0.55	0.16	415
W443476		6.0	0.50	3.6	10.9	2.27	12.8	3.27	1	218	0.2	0.72	0.51	0.49	0.13	392
W443477		26.0	0.07	3.4	15.4	4.81	27.0	2.07	<1	193.5	0.3	0.14	4.66	0.06	1.01	20
W443478		26.4	0.07	3.6	16.0	5.04	37.3	2.26	<1	207	0.3	0.15	4.83	0.06	1.05	22
W443479		27.9	0.07	3.5	16.9	5.23	38.1	2.31	<1	209	0.3	0.16	4.85	0.06	1.12	21
W443480		26.1	0.06	3.6	15.5	4.91	35.8	2.07	<1	219	0.3	0.14	4.97	0.06	0.99	21
W443481		8.1	0.56	5.2	13.9	2.92	15.4	4.12	1	205	0.3	0.82	0.77	0.56	0.19	430
W443482		9.3	0.59	5.6	15.9	3.44	14.6	4.56	1	250	0.3	0.83	0.90	0.54	0.23	432
W443483		74.0	0.14	11.0	86.2	21.5	32.9	14.80	1	978	0.5	0.89	11.05	0.18	2.54	94
W443484		78.2	0.15	10.8	89.6	22.3	27.8	15.75	2	682	0.5	0.90	11.30	0.17	2.51	90
W443485		69.2	0.14	9.4	85.6	21.3	21.8	15.60	2	469	0.5	0.93	10.40	0.19	2.14	96
W443486		70.4	0.16	10.7	80.4	20.1	38.5	13.65	1	691	0.5	0.85	10.70	0.17	2.43	81
W443487		30.4	0.06	3.7	17.8	5.42	30.2	2.47	<1	368	0.3	0.15	4.91	0.06	1.11	23
W443488		23.0	0.06	3.5	14.1	4.43	39.8	1.82	<1	163.0	0.3	0.12	4.77	0.06	0.86	20
W443489		13.0	0.20	7.3	14.5	3.55	16.4	3.20	4	264	0.5	0.41	1.60	0.20	0.48	130
W443490		18.5	0.12	3.1	12.2	3.67	53.5	1.91	<1	175.5	0.3	0.20	3.59	0.12	0.74	95
W443491		24.6	0.06	3.6	14.5	4.54	57.7	1.88	<1	123.5	0.3	0.15	4.85	0.05	0.97	20
W443492		20.0	0.05	3.3	12.4	3.89	65.0	1.66	<1	138.0	0.3	0.11	4.34	0.05	0.95	16
W443493		10.0	0.17	2.4	12.3	2.79	25.0	3.05	1	426	0.1	0.36	1.24	0.18	0.25	206
W443494		9.9	0.15	2.3	11.3	2.67	20.1	2.56	<1	285	0.1	0.32	1.23	0.15	0.27	170
W443495		25.4	0.06	3.5	15.1	4.66	57.4	1.80	<1	103.5	0.3	0.12	5.04	0.05	1.04	22
W443496		25.7	0.06	3.4	15.8	4.89	47.0	2.13	<1	145.0	0.3	0.15	4.52	0.06	0.96	27
W443497		3.9	0.38	2.4	7.5	1.48	18.6	2.40	<1	238	0.1	0.52	0.34	0.37	0.11	311
W443498		3.9	0.34	2.3	7.1	1.44	9.7	2.07	<1	190.0	0.1	0.50	0.34	0.34	0.29	297
W443499		5.8	0.40	3.5	9.6	2.06	13.8	2.89	1	287	0.2	0.58	0.43	0.41	0.33	386
W443500		20.8	0.08	3.3	12.7	3.91	37.1	1.64	<1	168.0	0.3	0.13	4.13	0.06	0.88	49
W443501		4.8	0.37	4.2	8.2	1.74	22.5	2.57	<1	289	0.2	0.49	0.46	0.33	0.14	327
W443502		25.5	0.04	3.8	14.6	4.72	41.9	1.94	<1	116.5	0.3	0.11	4.54	0.03	0.87	20
W443503		18.5	0.04	3.4	11.0	3.39	36.9	1.40	<1	108.0	0.3	0.08	4.36	0.04	0.76	23
W443504		5.6	0.33	2.6	7.7	1.71	18.7	2.31	<1	209	0.1	0.48	0.28	0.33	0.38	308
W443505		3.5	0.34	2.7	7.0	1.37	15.0	2.08	<1	199.0	0.1	0.46	0.28	0.32	0.06	324
W443506		22.9	0.04	3.5	13.1	4.20	21.8	1.64	<1	104.5	0.3	0.11	4.50	0.04	0.83	33
W443507		21.0	0.05	3.4	12.8	4.02	25.3	1.81	<1	98.0	0.3	0.13	4.15	0.06	0.86	44
W443508		3.8	0.38	2.6	7.0	1.43	13.9	2.31	<1	194.0	0.1	0.54	0.38	0.37	0.38	306

***** 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: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443469		1	0.6	0.06	4	0.8	0.10	<0.005	<0.005	<0.001	0.09	<0.2	0.01	0.06	<0.5	<0.5
W443470		1	15.5	1.45	79	44.1	0.32	0.140	0.054	0.018	1.27	11.6	1.25	0.06	2.9	1.4
W443471		1	4.7	0.41	131	0.8	0.07	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443472		1	7.1	0.55	135	1.4	0.18	<0.005	0.007	0.001	0.06	0.2	0.01	0.06	<0.5	<0.5
W443473		1	5.0	0.50	130	0.4	0.07	<0.005	0.005	<0.001	0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443474		1	4.6	0.50	128	0.1	0.02	<0.005	0.005	0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443475		1	30.7	3.48	98	0.4	0.08	<0.005	0.022	0.002	0.09	0.4	0.02	0.03	<0.5	0.8
W443476		1	28.1	3.24	91	0.2	0.07	<0.005	0.025	0.002	0.06	0.2	0.02	0.03	<0.5	1.3
W443477		1	4.4	0.50	120	0.3	0.04	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443478		1	4.4	0.38	125	0.3	0.04	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443479		1	4.5	0.38	124	0.3	0.03	<0.005	<0.005	0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443480		1	4.0	0.39	126	0.4	0.10	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443481		1	32.7	3.68	119	0.2	0.07	<0.005	0.029	0.003	0.05	0.3	0.03	0.11	<0.5	1.1
W443482		1	32.4	3.71	121	0.7	0.08	<0.005	0.025	0.002	0.05	0.4	0.01	0.11	<0.5	1.0
W443483		1	17.7	1.04	235	0.6	0.13	<0.005	0.016	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443484		1	17.8	1.09	235	0.3	0.09	<0.005	0.016	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W443485		1	17.5	1.00	213	0.5	0.08	<0.005	0.019	0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W443486		1	16.3	1.00	227	0.4	0.07	<0.005	0.015	<0.001	0.06	<0.2	<0.01	0.07	<0.5	<0.5
W443487		2	4.4	0.43	121	0.5	0.06	<0.005	0.009	<0.001	0.07	<0.2	0.01	0.07	<0.5	<0.5
W443488		1	3.8	0.36	119	0.3	0.05	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443489		3	13.4	1.29	100	4.8	1.25	0.013	0.063	0.005	0.33	4.9	0.74	0.10	1.8	1.5
W443490		2	7.8	0.82	102	0.2	0.05	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.11	<0.5	<0.5
W443491		4	4.2	0.43	120	0.3	0.04	<0.005	0.005	0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443492		1	3.8	0.40	108	0.3	0.04	<0.005	<0.005	0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443493		2	12.1	1.19	72	0.3	0.03	<0.005	0.007	<0.001	0.05	<0.2	<0.01	0.06	<0.5	0.6
W443494		1	10.4	1.05	78	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.16	<0.5	0.6
W443495		2	3.4	0.34	125	0.4	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443496		1	4.3	0.40	114	0.3	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443497		1	20.4	2.47	63	0.2	0.03	<0.005	0.011	0.001	<0.05	0.4	0.03	0.03	<0.5	0.7
W443498		2	19.4	2.22	59	0.2	0.04	<0.005	0.012	0.002	0.05	0.3	0.02	0.04	<0.5	1.1
W443499		1	23.1	2.69	85	0.2	0.06	<0.005	0.021	0.002	0.06	0.4	0.03	0.09	<0.5	0.8
W443500		1	4.6	0.50	109	0.6	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443501		1	20.2	2.28	65	0.4	0.03	<0.005	0.011	0.001	0.05	0.3	0.03	0.05	<0.5	0.8
W443502		2	3.0	0.23	112	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443503		1	2.7	0.27	104	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W443504		1	19.4	2.07	53	0.7	0.04	<0.005	0.007	0.001	<0.05	0.5	0.06	0.03	<0.5	0.8
W443505		<1	19.0	2.14	56	0.3	0.02	<0.005	0.012	0.001	<0.05	0.6	0.03	0.08	<0.5	0.7
W443506		1	3.4	0.31	111	0.4	0.04	0.005	0.005	<0.001	0.07	<0.2	0.02	0.03	<0.5	<0.5
W443507		1	4.1	0.38	104	0.5	0.02	0.005	<0.005	<0.001	0.05	<0.2	0.01	0.04	<0.5	<0.5
W443508		1	20.0	2.23	55	0.3	0.02	<0.005	0.008	0.001	0.05	0.5	0.02	0.12	<0.5	1.1

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443469		<1	1	30	<1	<1	11	<1	24	<0.001	<0.005	<0.001	<0.003
W443470		154	5500	40	2	2140	9	25	74	0.109	0.695	0.381	12.10
W443471		8	44	30	<1	10	9	3	11	<0.001	<0.005	<0.001	0.045
W443472		20	45	40	<1	59	43	5	102	0.002	<0.005	<0.001	0.221
W443473		5	4	30	<1	6	<2	3	11	0.002	<0.005	<0.001	0.036
W443474		3	4	20	<1	6	<2	3	15	<0.001	<0.005	<0.001	0.013
W443475		39	92	30	<1	51	<2	39	115	0.002	<0.005	<0.001	0.326
W443476		44	95	30	<1	57	2	42	120	<0.001	<0.005	<0.001	0.301
W443477		5	4	30	2	4	<2	2	12	<0.001	<0.005	<0.001	0.013
W443478		4	5	20	<1	7	<2	3	12	<0.001	<0.005	<0.001	0.010
W443479		5	3	40	<1	7	2	3	15	<0.001	<0.005	<0.001	0.004
W443480		4	20	20	1	5	<2	3	19	0.001	<0.005	<0.001	0.009
W443481		50	81	30	1	45	5	39	212	0.002	<0.005	<0.001	0.294
W443482		48	103	40	<1	52	<2	39	307	<0.001	<0.005	<0.001	0.394
W443483		29	13	30	<1	187	3	11	53	<0.001	<0.005	<0.001	0.042
W443484		30	5	30	<1	220	2	12	45	<0.001	<0.005	0.001	0.029
W443485		31	3	40	<1	256	<2	14	48	<0.001	<0.005	0.003	0.044
W443486		23	2	30	<1	183	<2	10	41	0.001	<0.005	0.001	0.034
W443487		7	6	20	<1	16	<2	3	8	<0.001	<0.005	<0.001	0.021
W443488		6	2	30	1	7	2	3	8	<0.001	<0.005	<0.001	0.013
W443489		114	4520	20	6	4350	22	12	107	0.053	0.302	0.629	5.13
W443490		17	26	40	1	31	<2	13	44	<0.001	<0.005	0.004	0.082
W443491		6	7	50	<1	11	3	3	130	<0.001	<0.005	<0.001	0.007
W443492		8	3	50	<1	10	2	3	11	0.001	<0.005	<0.001	0.016
W443493		40	37	40	<1	264	<2	21	68	0.002	<0.005	0.002	0.033
W443494		45	15	40	<1	379	<2	21	72	0.001	<0.005	0.004	0.010
W443495		3	11	30	<1	9	5	3	79	<0.001	<0.005	<0.001	0.013
W443496		6	33	30	<1	9	5	4	74	0.002	<0.005	<0.001	0.067
W443497		48	124	20	<1	76	<2	43	119	0.003	<0.005	0.001	0.259
W443498		47	104	20	<1	77	<2	43	95	0.002	<0.005	0.001	0.224
W443499		53	157	30	1	70	8	47	129	0.002	<0.005	0.001	0.555
W443500		5	4	30	<1	10	<2	5	27	<0.001	<0.005	<0.001	0.025
W443501		47	93	30	<1	79	<2	45	118	0.001	<0.005	0.001	0.290
W443502		3	1	30	<1	5	<2	2	6	<0.001	<0.005	<0.001	0.005
W443503		2	1	20	<1	4	<2	3	4	<0.001	<0.005	<0.001	0.003
W443504		54	263	20	<1	75	<2	39	78	0.012	0.015	0.015	0.571
W443505		45	167	20	<1	78	4	40	172	0.008	0.015	0.016	0.420
W443506		4	8	20	<1	8	<2	4	9	<0.001	<0.005	<0.001	0.024
W443507		9	6	30	<1	11	<2	6	11	<0.001	<0.005	<0.001	0.046
W443508		53	128	30	<1	125	<2	34	92	0.012	<0.005	<0.001	0.373

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443509		1.56	18.10	0.07	0.14	27.1	21.4	0.04	<0.01	<0.01	<0.01	0.05	0.02	0.02	0.08	32.3
W443510		1.45	53.0	15.00	11.85	9.05	6.88	1.36	0.80	0.03	0.86	0.25	0.08	0.03	0.02	1.31
W443511		3.40	77.8	11.35	1.93	1.99	1.03	2.20	2.00	<0.01	0.21	0.03	0.08	0.01	0.04	1.62
W443512		2.33	77.2	11.25	2.05	2.24	0.79	2.39	1.90	<0.01	0.21	0.05	0.08	0.02	0.04	3.60
W443513		2.25	79.7	10.70	1.25	2.40	0.36	2.15	2.14	<0.01	0.19	0.04	0.06	0.01	0.03	1.43
W443514		2.25	80.8	10.65	1.64	1.56	0.35	2.08	2.44	<0.01	0.19	0.03	0.07	0.02	0.04	1.43
W443515		2.51	77.4	11.60	2.38	1.67	0.53	1.75	2.69	<0.01	0.21	0.03	0.07	0.01	0.05	2.03
W443516		2.35	77.5	12.10	1.51	1.92	0.63	2.37	2.29	<0.01	0.22	0.04	0.08	0.02	0.05	1.52
W443517		2.25	79.5	11.80	1.26	2.02	0.52	2.28	2.34	<0.01	0.21	0.03	0.07	0.02	0.05	1.40
W443518		2.25	76.4	12.25	1.59	2.22	0.55	2.14	2.85	<0.01	0.22	0.03	0.08	0.02	0.07	1.41
W443519		2.16	77.6	11.45	1.62	2.18	0.63	1.55	2.68	<0.01	0.21	0.03	0.07	0.01	0.06	1.63
W443520		2.57	55.5	7.45	20.7	1.26	0.55	0.78	1.53	<0.01	0.14	0.04	0.05	0.01	0.03	11.50
W443521		2.97	40.3	5.28	30.5	2.77	0.60	0.47	0.97	<0.01	0.10	0.04	0.04	0.01	0.02	16.80
W443522		2.22	81.0	10.45	1.85	1.35	0.90	1.04	2.37	<0.01	0.19	0.04	0.06	0.01	0.05	1.63
W443523		2.50	57.9	8.33	14.95	6.06	3.68	0.59	1.39	<0.01	0.15	0.11	0.05	0.01	0.04	6.78
W443524		2.41	69.1	11.20	6.98	3.49	2.87	0.62	2.09	0.01	0.35	0.09	0.06	0.01	0.03	2.75
W443525		2.38	75.9	11.95	3.27	1.73	1.90	0.91	2.42	0.01	0.28	0.06	0.06	0.01	0.05	1.94
W443526		2.34	83.3	10.60	1.13	0.50	0.37	0.56	2.72	<0.01	0.19	0.01	0.05	0.01	0.04	1.53
W443527		2.24	77.7	10.15	4.26	2.17	0.50	0.92	2.16	<0.01	0.19	0.05	0.06	0.01	0.04	2.67
W443528		2.29	79.7	10.60	2.54	2.16	0.67	1.30	2.22	<0.01	0.19	0.06	0.06	0.02	0.05	1.65
W443529		0.04	41.2	8.86	15.05	15.60	10.80	0.61	0.22	0.10	0.69	0.14	0.13	0.01	0.03	4.11
W443530		2.11	78.4	11.30	2.00	1.95	0.54	1.85	2.30	<0.01	0.20	0.04	0.07	0.02	0.05	1.62
W443531		2.42	79.5	10.55	2.45	1.57	0.73	1.57	2.18	<0.01	0.19	0.04	0.06	0.01	0.05	1.66
W443532		2.26	78.4	11.10	2.43	1.91	0.51	2.72	1.72	<0.01	0.20	0.05	0.06	0.02	0.04	1.38
W443533		2.23	78.2	12.10	1.97	2.01	0.57	3.20	1.51	<0.01	0.22	0.06	0.07	0.02	0.04	1.07
W443534		2.06	79.5	10.80	2.19	1.95	0.65	2.75	1.44	<0.01	0.20	0.05	0.06	0.02	0.04	1.34
W443535		2.08	76.2	11.05	2.32	1.40	0.60	2.72	1.74	<0.01	0.20	0.04	0.06	0.02	0.05	1.69
W443536		1.23	74.3	10.60	6.12	1.53	0.76	2.42	1.51	<0.01	0.22	0.04	0.06	0.02	0.05	3.15
W443537		1.71	49.4	14.20	13.95	8.87	5.62	1.33	0.92	0.02	0.94	0.31	0.07	0.03	0.03	2.78
W443538		1.52	74.3	10.80	5.21	1.66	0.76	2.43	1.59	<0.01	0.22	0.06	0.07	0.02	0.05	2.43
W443539		2.12	73.4	11.35	3.73	2.22	0.72	2.35	1.81	<0.01	0.25	0.06	0.06	0.02	0.05	1.99
W443540		2.33	67.0	10.80	9.12	2.18	1.37	1.68	1.54	<0.01	0.26	0.09	0.06	0.02	0.05	4.39
W443541		2.34	73.6	12.15	4.04	2.80	0.81	2.73	1.44	<0.01	0.22	0.08	0.08	0.01	0.03	1.84
W443542		2.17	50.6	13.60	13.00	9.79	6.46	1.97	0.77	0.02	0.90	0.23	0.07	0.02	0.02	1.18
W443543		2.35	50.7	14.30	13.25	10.65	6.79	2.48	0.64	0.02	0.94	0.23	0.08	0.02	0.01	0.89
W443544		2.54	51.1	14.35	12.90	10.45	7.37	2.47	0.66	0.02	0.87	0.24	0.07	0.02	0.02	0.82
W443545		2.20	49.7	14.05	13.05	10.55	6.99	2.23	0.51	0.02	0.88	0.23	0.07	0.03	0.01	1.06
W443546		0.04	48.0	12.95	21.2	6.38	7.01	2.18	0.66	0.03	1.30	0.20	0.16	0.03	0.02	1.09

***** 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: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443509		99.32	8.86	0.03	783	1.0	10	0.40	0.08	0.04	<0.03	0.2	0.11	<5	<0.2	0.02
W443510		100.52	0.03	0.21	134.0	12.8	210	1.74	2.91	1.88	0.70	14.6	2.48	<5	1.6	0.66
W443511		100.29	0.07	0.48	420	45.7	10	0.99	0.71	0.36	0.48	14.9	1.13	<5	2.7	0.15
W443512		101.82	0.07	0.37	355	43.0	10	0.79	0.79	0.38	0.44	13.2	1.12	<5	2.6	0.15
W443513		100.46	0.13	0.12	352	45.2	10	0.93	0.55	0.23	0.51	14.5	1.02	<5	2.4	0.09
W443514		101.30	0.09	0.49	434	43.0	20	1.32	0.55	0.24	0.49	13.8	0.98	<5	2.6	0.10
W443515		100.42	0.09	0.96	530	45.9	10	1.49	0.62	0.27	0.52	15.7	1.06	<5	2.8	0.11
W443516		100.25	0.08	0.21	465	51.0	10	1.22	0.59	0.29	0.56	16.4	1.17	<5	2.9	0.10
W443517		101.50	0.08	0.13	459	44.7	10	1.18	0.58	0.24	0.48	14.2	1.00	<5	2.5	0.10
W443518		99.83	0.06	0.32	727	49.0	10	1.45	0.62	0.31	0.57	15.5	1.01	<5	2.7	0.11
W443519		99.72	0.08	0.27	543	43.8	20	1.63	0.63	0.30	0.50	14.3	1.10	<5	2.6	0.10
W443520		99.54	0.03	16.75	306	29.9	10	1.06	0.42	0.23	0.34	10.1	0.72	<5	1.8	0.09
W443521		97.90	0.33	23.8	216	23.3	10	0.61	0.40	0.23	0.29	6.9	0.61	<5	1.4	0.09
W443522		100.94	0.04	0.34	486	42.0	20	1.46	0.60	0.26	0.45	13.2	1.01	<5	2.5	0.10
W443523		100.04	0.18	8.06	353	30.4	20	0.78	0.55	0.30	0.62	11.6	0.79	<5	1.9	0.12
W443524		99.65	0.01	1.92	329	28.5	90	1.33	1.13	0.75	0.41	12.4	1.17	<5	1.8	0.26
W443525		100.49	0.02	0.48	482	43.0	40	2.54	0.90	0.48	0.49	15.8	1.29	<5	2.7	0.18
W443526		101.01	0.01	0.21	365	39.4	10	1.48	0.54	0.24	0.39	13.6	1.08	<5	2.4	0.11
W443527		100.88	0.07	1.93	399	38.7	10	1.26	0.58	0.29	0.42	13.6	0.98	<5	2.5	0.13
W443528		101.22	0.11	0.51	479	44.6	10	1.23	0.63	0.29	0.52	14.1	1.07	<5	2.7	0.13
W443529		97.55	0.23	2.60	317	20.9	770	0.40	2.51	1.48	0.77	10.7	2.70	<5	2.0	0.56
W443530		100.34	0.10	0.43	456	43.4	10	0.87	0.59	0.29	0.48	14.4	1.14	<5	2.6	0.11
W443531		100.56	0.05	0.67	463	41.7	10	0.86	0.59	0.36	0.49	13.6	0.96	<5	2.4	0.10
W443532		100.54	0.06	0.57	348	41.5	10	0.55	0.61	0.33	0.42	13.1	1.05	<5	2.6	0.12
W443533		101.04	0.05	0.17	419	49.3	20	0.60	0.72	0.36	0.56	15.3	1.26	<5	2.8	0.14
W443534		100.99	0.07	0.44	377	46.6	10	0.60	0.73	0.31	0.60	14.6	1.12	<5	2.7	0.14
W443535		98.09	0.05	0.78	461	43.7	10	0.68	0.69	0.30	0.53	15.0	1.13	<5	2.7	0.13
W443536		100.78	0.03	3.36	473	38.0	10	0.66	0.63	0.39	0.44	13.5	1.09	<5	2.4	0.12
W443537		98.47	0.02	1.84	335	12.3	130	1.47	3.59	2.48	0.88	17.4	2.97	<5	1.8	0.84
W443538		99.60	0.05	2.26	441	39.8	10	0.93	0.78	0.39	0.53	13.9	1.09	<5	2.4	0.15
W443539		98.01	0.06	1.36	501	42.9	20	0.84	0.89	0.47	0.62	15.6	1.23	<5	2.7	0.16
W443540		98.56	0.03	4.96	467	34.9	20	1.46	0.95	0.53	0.50	14.2	1.18	<5	2.5	0.18
W443541		99.83	0.05	1.10	298	47.6	10	0.74	0.84	0.42	0.62	15.3	1.42	<5	2.8	0.15
W443542		98.63	0.03	0.22	183.5	14.2	110	0.43	3.29	2.05	0.90	17.0	3.08	<5	1.8	0.73
W443543		101.00	0.02	0.11	131.0	11.7	120	0.38	3.04	1.98	0.79	16.8	2.78	<5	1.7	0.71
W443544		101.36	0.03	0.13	128.5	10.1	130	0.40	2.76	1.76	0.70	16.0	2.51	<5	1.6	0.61
W443545		99.38	0.04	0.12	109.5	10.5	130	0.27	2.95	1.81	0.78	16.8	2.49	<5	1.6	0.65
W443546		101.21	0.08	1.71	213	25.1	220	0.88	2.36	1.40	1.02	14.9	2.81	<5	2.3	0.49

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443509		0.7	0.01	0.2	0.4	0.11	0.8	0.08	<1	151.5	<0.1	0.01	0.20	0.01	0.40	<5
W443510		5.9	0.28	2.4	7.4	1.64	20.7	2.08	<1	233	0.1	0.44	0.83	0.29	0.20	253
W443511		25.0	0.06	3.3	14.8	4.80	43.9	1.94	<1	112.5	0.3	0.16	4.58	0.05	1.04	21
W443512		23.5	0.06	3.2	14.2	4.37	38.8	1.96	<1	130.0	0.3	0.15	4.49	0.05	0.91	19
W443513		25.0	0.03	3.3	14.3	4.64	50.2	1.93	<1	129.5	0.2	0.13	4.54	0.03	0.80	19
W443514		23.8	0.05	3.5	14.4	4.30	57.9	1.74	<1	135.0	0.3	0.13	4.57	0.04	0.92	22
W443515		25.3	0.05	3.6	14.6	4.67	59.4	1.84	<1	136.5	0.3	0.12	4.95	0.04	1.05	20
W443516		27.9	0.04	3.6	16.5	5.31	55.5	2.08	<1	147.0	0.3	0.13	5.26	0.04	1.04	20
W443517		24.8	0.04	3.4	14.4	4.48	53.1	1.79	<1	136.0	0.2	0.13	4.69	0.03	0.94	20
W443518		26.9	0.04	3.6	15.5	4.88	63.3	1.89	<1	140.0	0.3	0.12	5.12	0.04	1.05	22
W443519		24.4	0.04	3.4	14.5	4.48	60.8	1.79	<1	96.7	0.3	0.14	4.55	0.03	0.91	19
W443520		16.4	0.04	2.4	10.1	3.14	35.5	1.34	<1	69.2	0.2	0.09	3.16	0.04	0.70	15
W443521		13.2	0.03	1.6	7.6	2.34	21.3	1.07	<1	53.5	0.1	0.09	2.18	0.03	0.53	12
W443522		23.0	0.04	3.1	13.4	4.34	56.7	1.75	<1	90.1	0.2	0.12	4.33	0.05	0.85	19
W443523		17.4	0.05	2.4	10.2	3.07	29.3	1.38	<1	82.4	0.2	0.11	3.20	0.04	0.80	23
W443524		15.4	0.11	2.4	10.1	3.07	47.5	1.64	<1	110.0	0.1	0.21	2.64	0.10	0.60	94
W443525		23.4	0.06	3.4	14.3	4.43	58.1	2.10	1	109.5	0.3	0.17	4.34	0.06	0.89	57
W443526		21.0	0.04	3.0	13.0	4.16	57.5	1.74	<1	72.9	0.3	0.12	4.33	0.04	0.84	19
W443527		21.4	0.04	3.0	12.5	3.89	50.5	1.65	<1	102.5	0.2	0.11	3.99	0.04	0.88	18
W443528		24.5	0.06	3.4	14.4	4.47	48.1	2.01	<1	148.5	0.3	0.16	4.40	0.04	0.94	22
W443529		10.0	0.21	6.3	11.1	2.65	5.0	2.73	2	66.3	0.3	0.41	2.04	0.23	0.98	182
W443530		23.8	0.05	3.4	14.0	4.55	46.3	1.80	<1	156.5	0.3	0.13	4.40	0.04	0.89	19
W443531		22.8	0.04	3.1	13.6	4.26	44.0	1.93	1	139.0	0.2	0.12	4.30	0.04	0.95	21
W443532		22.4	0.04	3.1	13.3	4.27	34.4	1.92	<1	145.5	0.2	0.11	4.26	0.04	0.90	19
W443533		27.5	0.05	3.7	15.7	5.08	32.1	2.24	1	207	0.3	0.16	4.97	0.05	0.97	22
W443534		26.0	0.06	3.4	15.2	4.78	32.8	2.04	1	172.5	0.2	0.15	4.83	0.05	0.97	20
W443535		23.8	0.05	3.5	13.9	4.30	40.7	1.91	<1	151.5	0.3	0.12	4.71	0.04	0.95	20
W443536		20.5	0.06	3.1	12.1	3.93	34.7	1.79	<1	168.0	0.2	0.13	4.31	0.05	0.84	31
W443537		5.5	0.39	2.9	8.1	1.82	27.7	2.51	1	242	0.1	0.60	0.64	0.35	0.14	322
W443538		21.9	0.05	3.1	13.3	4.23	35.3	1.85	<1	141.5	0.2	0.15	4.18	0.05	0.83	31
W443539		23.5	0.06	3.4	14.6	4.42	39.7	2.05	<1	159.5	0.3	0.18	4.46	0.06	0.94	39
W443540		19.1	0.09	3.1	12.3	3.75	34.0	1.98	<1	121.0	0.2	0.19	4.09	0.08	0.90	46
W443541		26.2	0.07	3.6	16.0	5.02	35.9	2.05	<1	140.0	0.3	0.16	4.92	0.05	1.03	23
W443542		6.2	0.31	3.3	8.7	1.89	22.4	2.59	1	170.0	0.2	0.52	0.69	0.32	0.19	288
W443543		4.7	0.33	3.3	8.3	1.67	18.4	2.51	<1	168.5	0.2	0.52	0.54	0.28	0.19	294
W443544		4.0	0.28	2.8	7.1	1.39	18.2	2.06	1	165.5	0.1	0.47	0.46	0.25	0.11	271
W443545		4.3	0.29	3.1	7.5	1.48	13.2	2.20	<1	183.0	0.2	0.50	0.45	0.27	0.11	282
W443546		11.0	0.21	7.1	13.9	3.06	15.3	2.82	4	245	0.4	0.43	1.56	0.18	0.45	120

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443509		1	0.5	0.04	<2	0.8	0.03	0.007	<0.005	<0.001	0.10	<0.2	0.01	0.05	<0.5	<0.5
W443510		<1	16.4	1.90	56	0.3	0.02	<0.005	0.008	0.001	0.05	0.6	0.03	0.26	<0.5	0.6
W443511		1	3.7	0.36	100	1.0	0.11	<0.005	0.006	<0.001	0.05	<0.2	0.01	0.06	<0.5	<0.5
W443512		1	3.7	0.33	101	0.9	0.07	<0.005	0.006	<0.001	<0.05	0.2	0.02	0.06	<0.5	<0.5
W443513		1	2.8	0.22	98	0.6	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443514		1	2.9	0.20	100	1.0	0.06	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W443515		1	3.1	0.22	109	0.7	0.05	<0.005	<0.005	<0.001	0.05	<0.2	0.01	0.04	<0.5	<0.5
W443516		1	3.2	0.27	113	0.6	0.07	0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443517		1	2.8	0.21	105	0.4	0.04	0.006	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443518		1	3.2	0.24	112	1.0	0.09	<0.005	<0.005	<0.001	<0.05	0.2	0.03	0.05	<0.5	<0.5
W443519		1	3.1	0.23	103	0.8	0.07	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	0.05	<0.5	<0.5
W443520		1	2.4	0.24	71	14.3	0.19	<0.005	<0.005	0.002	0.12	1.4	0.22	0.07	<0.5	0.7
W443521		1	2.1	0.20	50	23.2	0.74	0.006	<0.005	0.003	0.12	3.1	0.22	0.06	<0.5	1.2
W443522		9	3.0	0.26	97	0.7	0.04	0.006	<0.005	<0.001	<0.05	<0.2	0.03	0.06	<0.5	<0.5
W443523		1	3.3	0.29	78	4.8	0.58	<0.005	0.006	<0.001	0.08	0.8	0.07	0.06	<0.5	0.8
W443524		3	6.6	0.66	72	1.0	0.07	<0.005	<0.005	<0.001	<0.05	0.3	0.03	0.14	<0.5	<0.5
W443525		1	4.9	0.52	105	0.5	0.03	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.09	<0.5	<0.5
W443526		40	2.8	0.22	99	0.3	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443527		1	3.0	0.23	104	1.2	0.11	0.005	<0.005	<0.001	<0.05	<0.2	0.04	0.05	<0.5	<0.5
W443528		1	3.6	0.28	105	0.7	0.02	0.007	<0.005	<0.001	<0.05	0.2	0.02	0.03	<0.5	<0.5
W443529		1	14.5	1.40	78	44.2	0.34	0.139	0.057	0.015	1.81	13.2	1.40	0.06	3.1	1.7
W443530		2	3.3	0.27	103	0.6	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.10	<0.5	<0.5
W443531		1	3.1	0.29	101	0.5	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.06	<0.5	<0.5
W443532		1	3.2	0.32	100	1.1	0.11	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443533		1	3.7	0.37	115	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443534		1	3.5	0.32	107	0.5	0.04	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W443535		1	3.3	0.27	108	0.6	0.09	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W443536		3	3.7	0.37	97	1.8	0.15	0.005	<0.005	<0.001	0.06	<0.2	0.03	0.06	<0.5	<0.5
W443537		1	21.4	2.40	64	1.1	0.07	<0.005	0.010	<0.001	0.06	0.4	0.05	0.08	<0.5	0.6
W443538		1	4.0	0.40	98	1.6	0.08	0.007	<0.005	<0.001	<0.05	0.2	0.02	0.09	<0.5	<0.5
W443539		1	4.7	0.43	106	1.7	0.05	<0.005	0.006	<0.001	<0.05	0.3	0.02	0.07	<0.5	<0.5
W443540		1	5.2	0.52	99	2.9	0.10	0.006	0.005	0.001	0.08	0.6	0.04	0.08	<0.5	<0.5
W443541		1	4.2	0.40	110	0.9	0.11	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.05	<0.5	<0.5
W443542		1	19.0	2.10	67	0.3	0.07	0.010	0.012	0.001	0.07	0.4	0.02	0.04	<0.5	1.0
W443543		1	18.2	1.97	66	0.3	0.04	<0.005	0.008	0.001	<0.05	0.5	0.03	0.02	<0.5	1.0
W443544		1	16.0	1.90	57	0.4	0.04	<0.005	0.009	0.001	<0.05	0.4	0.04	0.05	<0.5	0.9
W443545		1	17.0	1.94	62	0.3	0.04	0.010	0.009	0.001	0.08	0.3	0.02	0.05	<0.5	0.5
W443546		10	12.2	1.23	99	4.3	1.29	0.006	0.070	0.007	0.36	5.1	0.95	0.09	2.2	1.0

***** 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: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012299

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
W443509		1	4	20	1	4	9	<1	34	<0.001	<0.005	<0.001	0.003
W443510		44	161	30	<1	106	<2	38	90	0.002	0.005	0.006	0.380
W443511		6	22	30	<1	14	107	3	115	<0.001	<0.005	<0.001	0.032
W443512		4	11	30	<1	7	10	3	126	<0.001	<0.005	<0.001	0.021
W443513		2	11	20	<1	4	6	2	19	<0.001	<0.005	<0.001	0.011
W443514		4	15	20	<1	6	5	3	118	<0.001	<0.005	<0.001	0.041
W443515		4	9	20	<1	7	12	2	75	<0.001	<0.005	<0.001	0.087
W443516		3	6	30	<1	10	11	2	103	<0.001	<0.005	<0.001	0.011
W443517		3	4	20	<1	5	8	2	82	<0.001	<0.005	<0.001	0.011
W443518		6	12	20	<1	10	3	2	102	<0.001	<0.005	<0.001	0.022
W443519		3	8	30	<1	9	5	2	40	<0.001	<0.005	<0.001	0.016
W443520		23	17	20	1	20	<2	2	17	0.008	<0.005	<0.001	0.163
W443521		29	15	20	1	20	9	1	31	0.012	<0.005	0.001	0.098
W443522		2	5	30	1	3	33	2	148	<0.001	<0.005	<0.001	0.030
W443523		25	196	30	1	21	<2	2	34	0.002	<0.005	<0.001	0.619
W443524		20	68	30	<1	52	<2	13	40	0.002	0.006	0.006	0.206
W443525		10	26	30	<1	26	30	7	53	<0.001	<0.005	0.002	0.074
W443526		2	3	20	<1	5	<2	2	21	<0.001	<0.005	<0.001	0.012
W443527		5	12	20	1	11	3	2	7	<0.001	<0.005	<0.001	0.161
W443528		2	15	30	1	7	4	2	66	<0.001	<0.005	0.001	0.036
W443529		151	5620	40	3	2160	3	25	75	0.143	0.664	0.361	11.45
W443530		4	11	20	1	10	8	2	51	<0.001	<0.005	<0.001	0.028
W443531		5	10	30	1	13	17	2	50	<0.001	<0.005	<0.001	0.046
W443532		5	7	20	<1	13	<2	2	43	0.001	<0.005	<0.001	0.020
W443533		3	6	20	1	6	8	2	38	<0.001	<0.005	<0.001	0.013
W443534		4	9	20	1	11	80	2	109	<0.001	<0.005	<0.001	0.028
W443535		4	5	20	<1	11	5	2	48	<0.001	<0.005	<0.001	0.036
W443536		19	32	20	<1	13	5	4	70	0.001	<0.005	<0.001	0.191
W443537		43	61	40	<1	69	3	41	98	<0.001	<0.005	0.001	0.293
W443538		12	29	20	<1	12	5	4	57	0.002	<0.005	<0.001	0.133
W443539		6	15	20	<1	12	2	5	52	<0.001	<0.005	<0.001	0.099
W443540		14	40	40	<1	14	2	6	52	0.032	<0.005	<0.001	0.361
W443541		6	45	30	<1	12	<2	3	60	<0.001	<0.005	<0.001	0.086
W443542		42	71	30	<1	78	<2	36	107	<0.001	0.009	0.006	0.158
W443543		43	127	20	<1	84	<2	37	95	0.002	0.008	0.006	0.317
W443544		47	108	20	<1	87	<2	34	95	0.003	0.011	0.008	0.289
W443545		49	138	20	<1	86	5	37	101	0.003	0.011	0.008	0.333
W443546		124	4820	20	6	4710	24	13	113	0.076	0.291	0.600	4.62

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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		