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: 10-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18062405

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-MAR-2018.

The following have access to data associated with this certificate:

DAVID BENSON	LIONNEL DJON	JILL MAXWELL
DAVE PECK	KELSEY PRIVETT	LDIM WEBTRIEVE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
LOG-21	Sample logging - ClientBarCode
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS

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

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W871332		0.08	62.1	16.80	6.01	6.33	2.77	3.34	1.54	<0.01	0.51	0.13	0.15	0.05	0.07	1.05
W871333		0.08	41.9	9.25	15.05	16.25	11.00	0.63	0.24	0.11	0.72	0.15	0.13	<0.01	0.03	4.37
W871334		2.28	47.9	15.10	12.70	10.60	7.80	2.35	0.50	0.03	0.85	0.24	0.05	0.01	0.01	1.71
W871335		2.30	48.5	15.15	12.75	10.50	7.87	2.60	0.43	0.04	0.82	0.22	0.06	0.01	0.01	1.30
W871336		2.20	48.2	14.80	12.25	10.25	8.58	2.31	0.38	0.05	0.70	0.22	0.04	0.01	0.01	1.13
W871337		2.22	48.3	14.85	12.25	10.70	8.52	2.31	0.29	0.05	0.70	0.21	0.04	0.01	0.01	1.25
W871338		2.25	47.3	14.90	12.00	11.80	7.64	2.21	0.50	0.05	0.70	0.22	0.04	0.01	0.01	1.62
W871339		2.25	48.0	14.80	12.65	10.35	8.20	2.22	0.37	0.05	0.69	0.21	0.04	0.01	0.01	1.23
W871340		2.25	48.9	14.90	12.15	10.75	8.48	2.12	0.36	0.05	0.70	0.21	0.04	0.01	0.01	0.90
W871341		2.15	49.0	14.90	12.65	10.25	8.67	1.94	0.33	0.05	0.69	0.20	0.05	0.01	0.01	0.87
W871342		2.20	52.5	15.35	11.55	9.67	8.40	2.04	0.37	0.05	0.61	0.19	0.04	0.01	0.01	1.16
W871343		2.20	49.8	15.15	12.40	9.73	9.58	2.16	0.28	0.06	0.63	0.19	0.04	0.01	0.01	1.04
W871344		2.17	49.5	14.85	11.45	10.35	8.65	2.10	0.43	0.05	0.64	0.19	0.04	0.01	0.01	3.71
W871345		2.18	45.1	14.00	11.10	9.62	8.46	1.87	0.61	0.05	0.64	0.19	0.05	0.01	0.01	1.19
W871346		2.27	47.9	14.75	11.90	10.25	8.81	1.95	0.56	0.05	0.67	0.20	0.03	0.01	0.01	1.23
W871347		2.23	49.3	15.35	12.45	10.85	8.80	2.15	0.61	0.05	0.72	0.22	0.04	0.01	0.01	1.24
W871348		2.04	47.4	15.60	12.05	11.35	7.92	1.99	0.87	0.05	0.75	0.25	0.04	0.02	0.02	1.85
W871349		2.19	54.8	14.55	9.91	11.15	4.25	1.91	0.90	0.04	0.63	0.19	0.04	0.01	0.02	2.33
W871350		1.46	46.9	14.75	11.95	11.50	7.65	2.00	0.99	0.05	0.69	0.24	0.05	0.01	0.02	1.98
W871351		2.73	73.7	12.65	2.79	3.56	1.30	3.08	1.43	0.01	0.31	0.06	0.06	0.01	0.03	1.51
W871352		0.07	46.7	12.85	20.7	6.35	6.74	2.19	0.65	0.03	1.28	0.20	0.15	0.03	0.02	1.10
W871353		1.92	72.3	12.30	3.92	3.18	2.34	3.04	1.20	<0.01	0.27	0.13	0.04	0.01	0.02	1.71
W871354		2.02	75.2	12.80	2.16	2.79	1.81	3.10	1.48	<0.01	0.28	0.08	0.05	0.01	0.03	1.43
W871355		1.96	74.9	12.00	2.41	3.56	2.13	2.13	1.38	<0.01	0.25	0.10	0.05	0.01	0.03	1.59
W871356		1.94	76.8	11.80	2.24	2.84	1.65	1.99	2.34	<0.01	0.25	0.08	0.07	0.01	0.05	1.66
W871357		2.19	76.9	12.60	2.73	1.70	0.62	1.90	3.16	<0.01	0.27	0.03	0.09	0.01	0.05	1.93
W871358		1.43	64.6	11.95	10.15	1.58	1.83	0.99	2.41	<0.01	0.37	0.09	0.11	0.01	0.04	4.61
W871359		1.86	58.0	10.65	19.25	0.64	2.02	0.59	2.74	<0.01	0.45	0.14	0.08	0.01	0.05	5.70
W871360		3.33	14.80	4.05	51.8	1.05	1.96	0.22	0.39	0.01	0.30	0.12	0.02	<0.01	<0.01	22.0
W871361		2.64	64.7	15.45	7.01	3.32	2.72	2.83	1.78	<0.01	0.50	0.07	0.12	0.01	0.03	2.89
W871362		1.95	70.0	16.10	3.28	3.20	1.88	3.57	1.77	<0.01	0.33	0.05	0.11	0.02	0.03	1.38
W871363		2.11	69.6	14.25	5.16	3.44	2.02	2.47	1.90	<0.01	0.56	0.09	0.09	0.02	0.03	1.60
W871364		2.06	62.5	12.05	8.84	6.55	4.06	1.36	1.41	0.01	0.73	0.15	0.10	0.01	0.03	2.23
W871365		2.48	47.4	15.25	13.85	8.06	5.12	1.84	1.29	0.02	1.17	0.23	0.11	0.02	0.03	2.01
W871366		2.28	47.7	12.50	19.50	6.25	4.11	1.23	1.15	0.02	0.97	0.19	0.09	0.01	0.03	5.87
W871367		1.59	68.3	11.10	10.90	0.83	1.33	1.57	1.93	<0.01	0.26	0.02	0.09	0.01	0.04	5.44
W871368		2.03	41.8	7.31	32.3	2.43	2.54	0.92	0.60	0.01	0.30	0.06	0.05	0.01	0.02	12.00
W871369		2.96	36.4	7.38	32.3	4.18	3.09	1.16	1.07	0.01	0.34	0.06	0.07	<0.01	0.02	13.70
W871370		2.65	17.40	3.07	55.5	1.44	1.10	0.48	0.52	0.01	0.17	0.03	0.03	<0.01	0.01	18.50
W871371		1.43	52.5	11.35	17.70	2.48	2.72	3.08	1.54	0.09	0.49	0.06	0.08	<0.01	0.03	8.95

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Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871332		100.85	0.04	<0.01	608	29.8	10	0.77	3.89	2.80	0.88	18.0	4.19	<5	4.0	0.90
W871333		99.83	0.24	2.54	281	19.2	720	0.45	2.53	1.51	0.80	11.1	2.55	<5	1.9	0.53
W871334		99.85	0.05	0.53	117.5	6.9	240	1.44	3.08	2.06	0.62	17.5	2.54	<5	1.4	0.67
W871335		100.26	0.04	0.11	116.5	6.5	270	1.74	3.03	2.01	0.69	17.6	2.45	<5	1.2	0.65
W871336		98.93	0.03	0.07	87.6	4.7	340	1.03	2.55	1.67	0.62	15.6	2.17	<5	1.1	0.56
W871337		99.49	0.05	0.10	63.1	4.8	340	0.51	2.22	1.70	0.49	15.1	2.22	<5	1.0	0.51
W871338		99.00	0.05	0.17	81.0	5.1	340	1.38	2.54	1.66	0.64	15.8	2.19	<5	1.0	0.57
W871339		98.83	0.04	0.14	76.6	4.7	340	1.09	2.40	1.82	0.58	15.2	1.94	<5	1.0	0.54
W871340		99.58	0.03	0.08	87.2	4.8	340	0.67	2.88	1.60	0.57	15.3	2.10	<5	1.2	0.51
W871341		99.62	0.06	0.08	78.2	4.6	340	0.48	2.66	1.62	0.54	15.1	2.12	<5	1.0	0.51
W871342		101.95	0.03	0.06	62.2	5.1	330	0.83	2.37	1.68	0.46	15.7	1.86	<5	1.0	0.51
W871343		101.08	0.02	0.06	75.0	3.9	340	0.76	2.13	1.55	0.51	13.5	1.60	<5	0.9	0.48
W871344		101.98	0.02	0.07	89.3	5.0	340	0.67	2.48	1.61	0.54	14.8	2.01	<5	1.1	0.55
W871345		92.90	0.02	0.08	119.5	9.0	340	1.34	2.51	1.67	0.64	15.4	2.16	<5	1.1	0.52
W871346		98.32	0.02	0.08	104.0	5.2	340	1.15	2.46	1.77	0.58	15.2	1.71	<5	1.0	0.55
W871347		101.80	0.03	0.09	124.5	5.6	360	1.62	2.56	1.79	0.57	16.2	2.28	<5	1.1	0.57
W871348		100.16	0.04	0.43	181.5	6.5	360	2.39	2.99	2.05	0.64	17.2	2.62	<5	1.1	0.65
W871349		100.73	0.10	1.24	206	15.9	280	1.84	2.20	1.71	0.64	15.4	2.12	<5	1.4	0.47
W871350		98.78	0.04	0.85	194.0	5.3	350	2.03	2.60	1.78	0.64	16.5	2.14	<5	1.1	0.51
W871351		100.50	0.03	0.31	239	52.3	50	0.79	1.08	0.58	0.75	16.0	1.72	<5	2.8	0.22
W871352		98.99	0.09	1.69	201	25.1	220	0.93	2.47	1.25	1.04	16.4	2.86	<5	2.3	0.47
W871353		100.46	0.03	0.60	214	53.7	10	0.75	0.91	0.51	0.69	17.1	1.56	<5	3.6	0.15
W871354		101.22	0.02	0.12	262	51.0	20	0.97	1.01	0.33	0.60	16.6	1.48	<5	3.2	0.16
W871355		100.54	0.05	0.12	248	49.8	10	1.12	0.85	0.44	0.70	15.8	1.37	<5	3.2	0.16
W871356		101.78	0.07	0.21	398	42.9	20	0.85	0.79	0.39	0.50	14.3	1.19	<5	3.1	0.16
W871357		101.99	0.06	0.98	449	37.8	10	0.92	0.73	0.41	0.54	15.6	1.28	<5	3.4	0.13
W871358		98.74	0.02	4.93	369	48.8	20	2.56	1.77	0.89	0.74	14.3	2.14	<5	3.2	0.32
W871359		100.32	0.01	8.16	398	60.6	20	2.00	3.66	2.38	0.87	12.9	3.97	<5	5.2	0.75
W871360		96.72	0.09	35.9	31.2	9.7	40	1.34	0.88	0.49	0.28	5.4	1.00	<5	0.8	0.21
W871361		101.43	0.02	2.07	248	28.9	30	2.17	1.67	0.87	0.66	18.5	1.70	<5	3.0	0.30
W871362		101.72	0.03	0.11	244	29.7	20	2.29	0.84	0.32	0.54	17.6	1.31	<5	3.3	0.17
W871363		101.23	0.03	0.19	295	34.8	20	1.66	1.84	1.08	0.79	18.4	2.06	<5	3.2	0.38
W871364		100.03	0.03	1.49	221	27.3	70	1.82	2.88	1.57	0.87	15.3	2.51	<5	2.6	0.62
W871365		96.40	0.04	0.90	236	11.5	150	2.72	3.99	2.58	1.01	17.1	3.83	<5	2.0	0.88
W871366		99.62	0.14	7.97	232	16.3	110	3.18	3.23	2.10	0.79	14.3	2.91	<5	2.3	0.67
W871367		101.82	0.01	6.77	343	38.7	20	1.63	1.16	0.68	0.51	13.2	1.53	<5	2.9	0.25
W871368		100.35	0.06	19.15	130.0	36.4	40	1.33	2.30	1.45	1.00	10.2	2.35	<5	2.6	0.44
W871369		99.78	2.29	18.90	213	19.1	70	1.40	2.66	1.70	1.31	11.0	2.65	<5	1.6	0.50
W871370		98.26	0.48	33.6	102.0	9.1	50	0.71	1.03	0.60	0.38	4.8	0.95	<5	0.9	0.23
W871371		101.07	4.07	8.13	235	24.4	580	1.71	3.24	2.10	1.20	14.2	2.94	<5	2.7	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
W871332		13.8	0.43	3.6	17.5	4.08	27.0	4.11	1	492	0.3	0.66	2.91	0.41	1.33	152
W871333		9.9	0.23	6.3	10.8	2.48	4.8	2.37	2	61.2	0.4	0.45	1.89	0.25	1.00	162
W871334		2.7	0.34	2.0	6.2	1.05	13.5	1.92	5	116.5	0.1	0.50	0.27	0.31	0.09	281
W871335		2.6	0.35	1.9	5.3	1.01	11.3	1.91	1	127.5	0.2	0.43	0.21	0.29	<0.05	289
W871336		1.7	0.27	1.4	4.3	0.81	9.3	1.54	<1	112.0	0.1	0.38	0.14	0.24	<0.05	259
W871337		1.7	0.27	1.3	4.3	0.77	7.7	1.41	1	106.0	0.1	0.39	0.15	0.26	<0.05	250
W871338		2.0	0.28	1.6	4.5	0.79	13.6	1.53	1	127.0	0.1	0.43	0.14	0.26	0.05	257
W871339		1.8	0.26	1.5	4.5	0.78	12.2	1.42	<1	111.5	0.1	0.41	0.17	0.24	<0.05	255
W871340		1.7	0.27	1.5	4.0	0.82	10.0	1.51	<1	103.0	0.1	0.42	0.14	0.27	<0.05	257
W871341		1.8	0.27	1.3	4.2	0.80	8.9	1.42	<1	103.0	0.1	0.40	0.12	0.25	<0.05	252
W871342		2.0	0.24	1.4	3.8	0.74	9.2	1.41	1	98.0	0.1	0.37	0.23	0.24	0.20	217
W871343		1.4	0.25	1.1	3.6	0.64	5.6	1.32	<1	104.0	0.1	0.35	0.10	0.22	0.05	214
W871344		1.9	0.24	1.4	3.7	0.80	9.7	1.45	<1	114.0	0.1	0.39	0.22	0.20	0.09	234
W871345		3.8	0.26	4.4	5.9	1.33	15.8	1.75	1	114.0	0.1	0.36	0.38	0.25	<0.05	246
W871346		2.0	0.28	1.9	4.4	0.86	13.3	1.49	<1	112.5	0.1	0.34	0.16	0.23	<0.05	254
W871347		2.1	0.28	2.1	4.6	0.91	15.7	1.61	<1	125.5	0.1	0.41	0.20	0.25	0.06	273
W871348		2.8	0.30	2.0	5.3	1.06	24.1	1.70	1	171.5	0.1	0.43	0.20	0.31	<0.05	279
W871349		8.5	0.24	2.5	7.5	1.82	20.1	1.66	<1	164.0	0.1	0.35	1.03	0.20	0.32	214
W871350		2.1	0.27	1.5	4.4	0.80	25.9	1.53	<1	138.5	0.1	0.36	0.12	0.24	0.05	256
W871351		30.5	0.09	3.8	18.0	5.47	35.9	2.29	1	113.0	0.3	0.22	4.00	0.09	0.85	47
W871352		12.0	0.19	7.1	13.0	3.07	14.9	2.73	4	238	0.4	0.41	1.57	0.18	0.48	115
W871353		32.8	0.06	4.3	18.2	5.59	24.6	2.32	1	117.5	0.3	0.18	4.55	0.05	0.97	21
W871354		28.6	0.06	4.7	17.8	5.33	34.7	2.31	1	123.5	0.4	0.18	5.00	0.06	0.89	23
W871355		28.9	0.05	4.0	16.8	5.07	31.4	2.05	1	110.5	0.3	0.16	4.83	0.05	1.00	20
W871356		23.0	0.05	4.0	14.9	4.57	44.8	2.09	3	93.0	0.3	0.15	4.91	0.05	0.90	22
W871357		19.7	0.05	3.7	13.7	4.11	68.0	1.83	2	86.5	0.3	0.15	4.56	0.05	0.80	22
W871358		24.3	0.15	4.6	18.3	5.16	62.8	2.97	2	60.9	0.4	0.32	4.44	0.12	1.11	49
W871359		28.1	0.38	11.7	26.7	7.10	58.3	4.75	2	53.1	0.9	0.62	6.07	0.32	1.31	51
W871360		5.3	0.10	1.8	4.1	1.15	11.5	0.96	2	14.3	0.1	0.16	0.38	0.09	0.29	60
W871361		13.7	0.14	3.9	13.0	3.44	41.7	2.21	2	141.0	0.3	0.29	2.68	0.15	0.92	82
W871362		15.1	0.05	3.6	11.7	3.38	42.9	1.90	2	171.5	0.3	0.19	3.36	0.06	1.06	36
W871363		18.5	0.14	4.0	14.2	3.78	43.5	2.49	3	131.0	0.3	0.31	3.59	0.14	0.84	110
W871364		13.6	0.24	3.7	11.9	3.16	35.6	2.76	2	105.0	0.3	0.47	2.10	0.25	0.56	168
W871365		4.1	0.41	3.5	9.4	1.73	34.3	2.95	2	145.5	0.2	0.69	0.36	0.39	0.10	312
W871366		7.6	0.31	3.5	9.9	2.21	31.0	2.30	2	102.0	0.2	0.51	1.25	0.30	0.96	239
W871367		20.4	0.11	3.8	15.0	4.30	46.1	2.17	2	82.0	0.3	0.23	3.96	0.10	0.86	34
W871368		18.8	0.19	4.2	14.9	4.14	17.6	2.62	3	58.7	0.3	0.39	3.27	0.22	0.98	55
W871369		8.8	0.30	2.5	10.0	2.40	25.1	2.20	2	56.1	0.2	0.39	1.64	0.23	0.64	91
W871370		4.2	0.10	1.6	4.4	1.17	13.4	0.94	2	25.0	0.1	0.17	0.85	0.09	0.36	51
W871371		11.1	0.36	4.1	12.7	3.09	43.2	2.92	4	66.3	0.3	0.51	2.16	0.34	0.79	116

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
W871332		7	23.2	2.49	141	0.8	0.04	0.007	0.010	<0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
W871333		1	13.8	1.50	77	41.7	0.32	0.111	0.056	0.016	1.44	12.8	1.26	0.06	2.3	0.8
W871334		1	17.7	2.08	47	0.4	0.02	<0.005	0.009	0.001	0.05	0.6	0.02	0.06	<0.5	<0.5
W871335		1	17.0	2.06	46	0.2	0.01	0.006	0.010	0.001	<0.05	0.6	0.01	0.03	<0.5	<0.5
W871336		1	14.6	1.80	35	0.3	0.01	0.006	0.007	<0.001	<0.05	0.4	0.02	0.02	<0.5	<0.5
W871337		1	14.6	1.76	36	0.5	0.01	<0.005	0.007	0.002	<0.05	0.6	0.02	0.02	<0.5	<0.5
W871338		1	14.7	1.71	36	0.3	0.03	0.007	0.009	0.001	<0.05	0.6	0.03	0.02	<0.5	<0.5
W871339		<1	14.6	1.56	35	0.1	0.02	<0.005	0.008	0.001	<0.05	0.4	0.03	0.02	<0.5	<0.5
W871340		<1	14.3	1.59	37	0.3	0.01	0.005	0.006	0.001	<0.05	0.6	0.02	0.03	<0.5	<0.5
W871341		<1	14.4	1.61	36	0.3	0.01	<0.005	0.008	0.001	<0.05	0.4	0.03	0.05	<0.5	<0.5
W871342		42	13.0	1.52	32	0.2	0.01	0.005	0.007	0.001	<0.05	0.3	0.02	0.05	<0.5	<0.5
W871343		1	12.2	1.35	29	0.2	0.01	<0.005	0.006	0.001	<0.05	0.6	0.01	0.03	<0.5	<0.5
W871344		1	13.8	1.68	33	0.1	0.01	<0.005	0.007	0.001	<0.05	0.4	0.03	0.04	<0.5	<0.5
W871345		1	13.8	1.59	34	0.4	0.02	0.005	0.008	0.001	<0.05	0.5	0.03	0.04	<0.5	<0.5
W871346		3	14.2	1.73	33	0.1	0.02	<0.005	0.007	0.002	<0.05	0.4	0.02	0.05	<0.5	<0.5
W871347		1	15.0	1.76	35	0.2	0.01	<0.005	0.008	0.001	<0.05	0.7	0.02	0.08	<0.5	<0.5
W871348		1	16.7	1.85	40	0.7	0.05	<0.005	0.011	0.002	0.06	0.8	0.09	0.11	<0.5	<0.5
W871349		1	12.5	1.43	56	0.8	0.16	<0.005	0.015	0.001	0.07	0.7	0.20	0.13	<0.5	<0.5
W871350		2	14.3	1.69	36	0.4	0.05	<0.005	0.013	0.002	<0.05	0.4	0.14	0.14	<0.5	<0.5
W871351		1	5.5	0.50	116	0.5	0.08	0.006	0.013	0.001	<0.05	<0.2	0.02	0.09	<0.5	<0.5
W871352		4	12.1	1.27	91	3.6	1.19	0.016	0.064	0.005	0.34	5.3	0.98	0.09	1.7	<0.5
W871353		1	4.5	0.36	141	0.7	0.10	<0.005	0.008	<0.001	0.05	0.2	0.02	0.08	<0.5	<0.5
W871354		1	4.4	0.35	130	0.4	0.04	<0.005	0.007	<0.001	<0.05	0.3	<0.01	0.06	<0.5	<0.5
W871355		1	4.2	0.38	129	0.5	0.04	<0.005	0.007	0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
W871356		4	3.7	0.37	125	0.6	0.02	<0.005	0.007	0.001	<0.05	0.2	<0.01	0.08	<0.5	<0.5
W871357		1	4.0	0.38	131	0.7	0.04	0.005	0.006	0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W871358		1	8.9	0.88	119	1.7	0.16	<0.005	0.015	0.003	0.09	0.9	0.08	0.32	<0.5	<0.5
W871359		1	20.6	2.43	210	2.3	0.20	0.007	0.017	0.004	0.06	0.9	0.15	0.32	<0.5	<0.5
W871360		2	5.0	0.57	29	15.3	0.46	0.006	0.028	0.002	0.26	2.3	0.45	0.30	<0.5	<0.5
W871361		3	8.8	0.80	114	1.4	0.11	0.006	0.012	0.001	0.11	1.1	0.08	0.19	<0.5	<0.5
W871362		1	4.2	0.33	122	0.7	0.03	0.006	0.011	0.001	0.09	<0.2	0.02	0.22	<0.5	<0.5
W871363		1	9.8	0.99	126	0.3	0.04	0.006	0.010	0.001	0.10	0.3	0.02	0.09	<0.5	<0.5
W871364		1	15.5	1.77	101	0.7	0.07	<0.005	0.010	0.001	0.12	0.9	0.13	0.15	<0.5	<0.5
W871365		1	23.2	2.60	76	1.0	0.06	<0.005	0.016	0.002	0.07	0.9	0.14	0.27	<0.5	<0.5
W871366		3	17.4	1.89	84	2.6	0.14	<0.005	0.037	0.003	0.17	1.4	0.08	0.42	<0.5	0.8
W871367		1	6.3	0.57	119	4.8	0.07	<0.005	0.005	0.002	0.10	0.3	0.03	0.21	<0.5	<0.5
W871368		2	13.2	1.53	92	16.1	0.28	0.011	0.064	0.007	0.32	4.0	0.10	0.36	<0.5	0.6
W871369		2	14.2	1.73	64	24.5	0.20	0.034	0.302	0.014	0.39	9.3	0.18	0.50	<0.5	3.6
W871370		2	5.8	0.60	32	32.7	0.27	0.022	0.260	0.007	0.48	9.0	0.39	0.26	<0.5	<0.5
W871371		2	18.0	2.05	100	7.7	0.56	0.025	0.428	0.023	0.24	8.3	0.20	1.02	<0.5	2.5

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871332		13	92	10	2	7	7	17	62	0.002	<0.005	<0.001	0.025
W871333		146	5520	40	3	2060	4	24	73	0.128	0.673	0.362	10.05
W871334		48	148	30	<1	122	<2	39	94	0.002	<0.005	0.001	0.523
W871335		46	192	30	<1	129	<2	36	94	0.003	<0.005	0.004	0.386
W871336		47	156	20	<1	148	<2	34	81	0.002	0.013	0.015	0.319
W871337		49	144	20	<1	149	<2	37	88	0.004	0.010	0.014	0.340
W871338		49	157	30	<1	148	<2	36	86	0.003	0.012	0.015	0.364
W871339		51	167	20	<1	153	<2	39	93	0.002	0.013	0.014	0.416
W871340		48	153	10	<1	151	<2	35	97	0.002	0.013	0.016	0.349
W871341		47	156	20	<1	147	6	39	101	0.003	0.012	0.015	0.341
W871342		46	134	20	<1	149	<2	36	77	0.002	0.013	0.015	0.292
W871343		48	154	20	<1	171	3	40	102	0.002	0.013	0.017	0.300
W871344		48	154	20	<1	153	<2	38	91	0.004	0.011	0.014	0.318
W871345		52	161	30	<1	159	<2	41	81	0.001	0.010	0.015	0.313
W871346		50	160	30	<1	159	<2	39	81	0.017	0.013	0.015	0.340
W871347		50	159	30	<1	156	<2	40	87	0.002	0.012	0.015	0.338
W871348		54	147	40	<1	157	5	41	101	0.001	0.013	0.016	0.417
W871349		43	203	50	<1	122	<2	35	73	<0.001	0.009	0.012	0.410
W871350		43	167	40	<1	151	2	41	128	<0.001	0.011	0.015	0.348
W871351		11	32	30	1	24	4	6	48	<0.001	<0.005	0.001	0.092
W871352		117	4600	20	5	4440	22	12	109	0.109	0.302	0.597	3.98
W871353		8	33	40	<1	26	15	2	67	<0.001	<0.005	<0.001	0.169
W871354		4	10	40	<1	11	25	3	71	<0.001	<0.005	<0.001	0.026
W871355		5	9	40	<1	10	3	2	28	<0.001	<0.005	<0.001	0.023
W871356		3	13	40	<1	9	20	3	187	<0.001	<0.005	<0.001	0.018
W871357		5	20	30	<1	12	10	3	53	<0.001	<0.005	<0.001	0.037
W871358		18	45	70	2	54	8	7	39	0.004	<0.005	0.003	0.513
W871359		24	139	80	1	81	8	7	72	0.002	<0.005	0.001	0.817
W871360		166	226	50	2	163	6	6	54	0.011	<0.005	0.018	0.008
W871361		11	51	60	1	38	10	9	68	<0.001	<0.005	<0.001	1.090
W871362		9	12	40	<1	17	3	4	79	<0.001	<0.005	<0.001	0.043
W871363		12	20	50	1	14	12	10	87	<0.001	<0.005	<0.001	0.100
W871364		22	98	50	<1	44	9	21	154	<0.001	<0.005	<0.001	0.735
W871365		51	135	50	<1	80	<2	38	129	<0.001	<0.005	<0.001	0.668
W871366		61	91	50	2	79	13	25	180	0.001	<0.005	<0.001	1.065
W871367		18	36	50	1	29	9	3	56	<0.001	<0.005	<0.001	0.427
W871368		66	148	50	3	86	17	7	326	0.009	<0.005	<0.001	0.019
W871369		112	163	30	5	107	42	14	1550	0.001	<0.005	0.001	0.035
W871370		108	332	20	3	177	8	6	608	0.008	<0.005	0.004	0.011
W871371		44	166	30	8	158	37	20	1295	0.005	<0.005	0.002	7.30

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871372		0.09	61.3	16.25	5.98	5.95	2.62	3.23	1.48	<0.01	0.48	0.12	0.14	0.06	0.06	1.07
W871373		1.65	42.4	8.98	32.1	2.77	2.04	1.20	1.78	0.01	0.42	0.05	0.08	0.01	0.04	9.17
W871374		1.66	34.5	5.60	16.75	18.55	9.14	0.46	0.65	<0.01	0.21	0.22	0.07	<0.01	0.01	3.86
W871375		2.10	37.0	10.50	13.35	15.65	7.86	1.00	0.92	0.02	0.81	0.25	0.08	0.01	0.02	7.31
W871376		2.22	49.4	15.40	14.95	8.38	6.91	1.35	1.19	0.02	1.13	0.30	0.10	0.02	0.02	1.72
W871377		2.31	47.7	13.65	16.80	10.80	6.75	1.07	0.89	0.02	1.02	0.26	0.09	0.01	0.02	2.28
W871378		2.18	46.3	14.60	15.00	9.85	5.60	1.64	1.22	0.02	1.13	0.22	0.11	0.01	0.02	2.79
W871379		2.26	49.8	14.45	15.15	10.20	5.86	2.56	0.70	0.02	1.20	0.22	0.11	0.01	0.01	1.45
W871380		2.25	50.6	14.10	15.15	9.21	6.94	2.34	0.56	0.02	1.18	0.26	0.11	0.01	0.01	1.09
W871381		2.31	50.3	14.35	15.35	8.95	6.51	2.49	0.57	0.02	1.19	0.25	0.11	0.01	0.01	0.95
W871382		2.20	49.5	14.20	15.30	8.90	6.33	2.43	0.54	0.02	1.16	0.24	0.11	0.01	0.01	0.87
W871383		2.13	49.5	13.80	14.90	9.71	6.10	2.33	0.58	0.02	1.15	0.26	0.08	0.01	0.01	0.93
W871384		2.22	49.6	13.45	14.55	12.80	5.18	2.26	0.34	0.02	1.15	0.23	0.08	0.01	0.01	1.25
W871385		2.19	48.9	13.85	15.05	10.80	5.94	2.16	0.52	0.02	1.16	0.24	0.10	0.01	0.01	0.88
W871386		2.14	50.3	14.50	15.40	9.38	6.48	2.22	0.55	0.02	1.17	0.24	0.10	0.01	0.01	0.59
W871387		2.04	50.7	14.35	15.35	9.64	6.44	2.28	0.56	0.02	1.19	0.24	0.11	0.01	0.01	0.67
W871388		2.17	48.8	13.85	14.75	9.58	6.21	2.13	0.65	0.02	1.13	0.23	0.10	0.01	0.01	0.75
W871389		2.35	49.0	14.00	14.95	9.87	5.92	2.23	0.65	0.02	1.15	0.23	0.10	0.01	0.01	0.91
W871390		2.17	49.3	13.70	14.40	9.42	5.51	2.51	0.58	0.02	1.15	0.22	0.11	0.02	0.01	1.23
W871391		2.35	49.2	13.55	14.70	9.13	6.19	2.67	0.57	0.02	1.19	0.23	0.10	0.01	0.01	1.02
W871392		0.08	42.2	9.13	15.30	15.50	10.90	0.62	0.23	0.11	0.69	0.14	0.13	0.01	0.03	4.27
W871393		2.30	49.9	14.65	12.60	10.70	7.64	2.43	0.56	0.03	0.95	0.21	0.08	0.01	0.01	1.44
W871394		2.23	45.0	13.65	11.20	10.25	6.73	2.28	0.47	0.03	0.77	0.19	0.06	0.02	0.01	1.47
W871395		2.26	50.3	15.10	11.10	10.55	6.43	2.89	0.73	0.04	0.88	0.21	0.06	0.02	0.02	1.81
W871396		2.23	47.4	14.65	11.80	10.25	7.68	2.38	0.62	0.04	0.84	0.22	0.07	0.01	0.01	2.18
W871397		2.24	50.6	15.55	10.70	10.50	6.48	2.89	0.76	0.04	0.89	0.24	0.07	0.02	0.02	1.62
W871398		1.91	50.4	14.95	11.00	11.35	6.28	2.65	0.61	0.04	0.87	0.22	0.06	0.02	0.01	1.41
W871399		2.48	49.2	14.40	12.10	11.30	7.35	2.46	0.43	0.04	0.85	0.22	0.07	0.01	0.01	1.59
W871400		2.28	48.5	14.25	11.95	11.60	6.44	2.36	0.64	0.04	0.84	0.21	0.06	0.02	0.01	1.59
W871401		1.69	49.1	15.15	11.00	13.15	5.57	2.10	0.93	0.04	0.85	0.21	0.07	0.02	0.02	2.05
W871402		2.87	43.8	11.05	22.2	8.11	3.10	1.03	1.59	0.02	0.63	0.13	0.07	0.01	0.03	6.36
W871403		1.51	39.5	11.95	22.8	11.15	3.06	1.94	1.25	0.03	0.71	0.12	0.07	0.01	0.02	7.89
W871404		1.52	34.3	9.54	30.1	9.45	1.99	1.60	0.78	0.02	0.55	0.11	0.05	0.01	0.01	9.52
W871405		2.17	48.0	14.90	13.70	12.15	5.09	2.40	1.09	0.04	0.82	0.28	0.07	0.01	0.02	2.69
W871406		1.70	54.0	15.65	9.06	9.09	5.70	3.82	0.69	0.05	0.87	0.20	0.07	0.01	0.02	2.02
W871407		1.84	52.5	16.00	10.40	8.77	5.80	2.78	0.94	0.05	0.88	0.23	0.05	0.01	0.02	1.60
W871408		2.08	51.1	14.95	10.30	10.05	5.46	3.28	0.52	0.04	0.82	0.24	0.06	0.02	0.01	1.53
W871409		0.08	48.0	12.75	21.0	6.36	6.66	2.19	0.63	0.03	1.27	0.19	0.16	0.03	0.02	1.13

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871372		98.74	0.04	0.03	552	26.2	10	0.81	3.87	2.30	0.85	13.9	3.62	<5	3.6	0.73
W871373		101.05	1.38	15.10	336	25.7	50	1.57	3.14	2.11	0.96	15.2	3.16	<5	3.3	0.63
W871374		90.02	2.23	8.29	133.5	16.5	20	1.19	1.39	0.79	0.60	8.6	1.49	<5	1.6	0.30
W871375		94.78	2.32	3.67	163.5	13.1	110	3.17	3.21	2.26	0.70	12.0	2.67	<5	1.4	0.66
W871376		100.89	0.03	0.41	166.5	22.7	150	1.96	4.52	3.04	1.17	17.5	4.36	<5	2.3	0.98
W871377		101.36	0.03	1.42	121.5	11.4	130	1.46	3.62	2.16	0.88	14.6	3.30	<5	1.8	0.76
W871378		98.51	0.04	1.58	218	13.4	150	2.65	3.92	2.44	0.88	17.7	3.43	<5	2.1	0.88
W871379		101.74	0.04	0.64	127.5	13.9	130	0.64	4.31	2.80	0.97	16.9	3.70	<5	2.1	0.92
W871380		101.58	0.03	0.42	103.0	12.9	130	0.58	4.03	2.53	0.91	17.2	3.34	<5	2.2	0.90
W871381		101.06	0.02	0.29	106.0	13.0	140	0.61	4.26	2.61	0.99	16.7	3.58	<5	2.2	0.94
W871382		99.62	0.02	0.30	93.4	12.5	130	0.59	4.06	2.39	0.95	15.9	3.47	<5	1.9	0.84
W871383		99.38	0.04	0.17	104.0	13.1	140	0.71	4.09	2.64	0.81	16.2	3.39	<5	2.2	0.87
W871384		100.93	0.14	0.11	61.0	12.7	120	0.32	3.79	2.67	1.06	15.3	3.53	<5	2.1	0.76
W871385		99.64	0.04	0.09	85.3	12.6	140	0.56	4.10	2.67	0.91	16.3	3.53	<5	2.3	0.89
W871386		100.97	0.02	0.08	88.9	13.3	140	0.65	4.27	2.59	0.92	16.0	3.59	<5	2.3	0.89
W871387		101.57	0.07	0.06	92.5	13.2	140	0.68	4.19	2.65	0.82	16.2	3.59	<5	2.4	0.90
W871388		98.22	0.02	0.08	110.5	11.7	130	0.60	3.61	2.48	0.82	14.9	3.14	<5	2.0	0.78
W871389		99.05	0.03	0.07	124.0	12.4	130	0.56	4.14	2.40	0.86	15.7	3.16	<5	2.0	0.80
W871390		98.18	0.04	0.05	114.0	13.2	130	0.48	4.25	2.48	0.96	16.4	3.47	<5	2.3	0.95
W871391		98.59	0.03	0.05	127.0	13.2	150	0.55	4.31	2.87	0.87	18.6	3.56	<5	2.6	0.97
W871392		99.26	0.23	2.55	294	18.4	760	0.45	2.75	1.47	0.73	11.5	2.81	<5	1.9	0.54
W871393		101.21	0.04	0.02	130.0	8.7	240	1.81	3.49	2.72	0.88	18.0	3.16	<5	1.6	0.81
W871394		92.13	0.07	0.04	118.5	7.0	260	3.13	3.12	2.15	0.75	16.9	2.87	<5	1.4	0.68
W871395		100.14	0.06	0.04	166.5	7.2	270	2.22	3.26	2.28	0.80	16.6	2.48	<5	1.4	0.69
W871396		98.15	0.04	0.14	130.0	8.1	270	2.30	3.02	2.11	0.66	16.3	2.38	<5	1.6	0.69
W871397		100.38	0.06	0.20	149.5	7.2	280	1.71	3.14	2.13	0.78	17.6	2.68	<5	1.4	0.74
W871398		99.87	0.06	0.18	135.5	7.4	280	1.21	3.41	2.38	0.70	18.3	2.50	<5	1.4	0.73
W871399		100.03	0.04	0.14	92.7	7.4	260	3.59	3.37	2.24	0.64	16.1	2.74	<5	1.2	0.60
W871400		98.51	0.04	0.28	115.5	7.0	260	2.68	3.26	2.09	0.70	16.4	2.86	<5	1.5	0.60
W871401		100.26	0.12	0.46	163.5	8.3	260	1.16	3.53	2.23	0.78	16.6	2.77	<5	1.3	0.71
W871402		98.13	0.34	10.30	279	12.5	170	1.96	2.91	1.76	0.65	17.7	2.44	<5	1.8	0.64
W871403		100.50	0.98	10.70	202	9.3	190	1.44	2.70	1.92	0.80	16.9	2.32	<5	1.7	0.59
W871404		98.03	0.88	14.90	123.5	9.4	150	1.11	2.62	1.65	0.57	13.5	1.90	<5	1.4	0.50
W871405		101.26	0.36	1.22	164.5	7.8	320	1.24	3.13	2.09	0.84	18.0	2.45	<5	1.2	0.68
W871406		101.25	0.27	0.58	131.5	6.4	320	0.58	3.26	1.95	0.60	16.9	2.89	<5	1.4	0.69
W871407		100.03	0.04	0.32	156.5	7.4	330	0.99	3.25	2.30	0.71	17.7	2.50	<5	1.4	0.69
W871408		98.38	0.27	0.36	120.0	7.1	320	0.41	2.77	2.13	0.66	16.8	2.49	<5	1.3	0.63
W871409		100.42	0.08	1.74	207	24.1	230	0.88	2.42	1.15	1.03	15.8	2.77	<5	2.1	0.56

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871372		11.4	0.37	2.8	15.5	3.61	23.6	3.61	4	435	0.2	0.59	2.47	0.35	1.04	141
W871373		11.6	0.34	4.5	14.0	3.30	45.9	3.12	3	69.5	0.3	0.53	2.13	0.29	0.66	81
W871374		8.1	0.16	2.0	8.0	1.92	17.1	1.63	4	45.4	0.2	0.27	1.47	0.13	0.99	36
W871375		5.6	0.32	2.7	8.4	1.83	28.9	2.55	2	100.0	0.2	0.58	0.93	0.31	0.29	229
W871376		9.9	0.41	4.3	14.0	3.11	35.8	3.72	2	170.0	0.2	0.74	2.33	0.42	0.16	329
W871377		4.5	0.33	3.0	8.2	1.62	22.6	2.57	3	123.0	0.1	0.57	0.52	0.37	0.11	283
W871378		5.4	0.37	3.6	9.4	1.97	31.4	2.61	2	123.5	0.2	0.60	0.54	0.40	0.17	324
W871379		5.5	0.42	3.6	9.6	2.11	17.3	3.00	2	128.5	0.2	0.67	0.56	0.43	0.15	334
W871380		5.1	0.39	3.6	9.4	1.91	13.9	2.52	2	113.0	0.2	0.64	0.50	0.38	0.13	327
W871381		5.1	0.45	3.6	9.8	1.99	15.4	2.79	2	115.0	0.2	0.65	0.57	0.40	0.15	327
W871382		4.8	0.44	3.4	9.4	1.98	14.2	2.85	2	110.5	0.2	0.66	0.56	0.38	0.12	309
W871383		5.1	0.43	3.5	9.6	1.96	15.8	2.75	2	120.5	0.2	0.70	0.58	0.41	0.14	334
W871384		5.0	0.41	3.1	8.9	1.91	7.4	2.75	2	96.3	0.2	0.59	0.48	0.34	0.14	320
W871385		4.7	0.38	3.4	8.7	1.85	13.7	2.77	2	115.0	0.2	0.61	0.52	0.42	0.11	317
W871386		5.2	0.42	3.6	10.4	1.96	15.0	3.30	2	103.5	0.2	0.67	0.57	0.40	0.12	321
W871387		5.0	0.46	3.6	9.9	1.94	15.5	2.39	2	110.5	0.2	0.61	0.54	0.42	0.12	320
W871388		4.5	0.39	3.2	8.8	1.74	17.2	2.57	2	103.0	0.2	0.60	0.46	0.38	0.13	294
W871389		4.7	0.42	3.3	8.3	1.91	16.6	2.66	2	113.5	0.2	0.64	0.47	0.39	0.10	313
W871390		5.3	0.41	3.6	9.8	2.07	14.7	3.26	2	137.0	0.2	0.65	0.54	0.40	0.11	325
W871391		5.6	0.48	4.1	10.0	2.04	17.0	2.75	1	121.5	0.3	0.65	0.56	0.47	0.13	352
W871392		9.5	0.20	6.3	11.1	2.44	5.0	2.47	2	64.3	0.4	0.45	1.95	0.23	0.98	175
W871393		3.6	0.31	2.8	6.7	1.39	17.3	1.93	1	128.0	0.2	0.56	0.30	0.37	0.05	324
W871394		2.7	0.35	2.1	5.6	1.07	14.8	1.94	1	142.0	0.1	0.49	0.19	0.28	0.06	299
W871395		2.8	0.31	2.1	5.1	1.07	21.2	1.82	1	176.0	0.2	0.54	0.18	0.30	<0.05	312
W871396		4.0	0.34	2.3	5.6	1.22	17.7	1.75	1	116.5	0.2	0.46	0.20	0.31	0.14	298
W871397		2.9	0.31	2.4	6.1	1.22	22.5	2.22	1	187.0	0.2	0.62	0.24	0.32	0.05	320
W871398		2.9	0.29	2.4	6.0	1.26	18.0	1.71	1	182.5	0.2	0.54	0.19	0.32	<0.05	318
W871399		3.0	0.30	2.1	6.1	1.16	12.1	1.58	1	121.0	0.2	0.53	0.21	0.32	0.07	297
W871400		2.7	0.29	1.9	5.3	1.08	18.2	1.94	1	150.5	0.2	0.50	0.20	0.30	0.06	293
W871401		3.5	0.31	2.0	6.2	1.13	25.5	2.19	1	152.0	0.2	0.52	0.22	0.34	0.10	295
W871402		5.9	0.25	2.8	7.9	1.83	45.0	1.90	3	111.5	0.2	0.49	0.80	0.26	0.27	202
W871403		4.6	0.27	2.3	7.0	1.36	35.1	1.97	3	118.5	0.2	0.42	0.43	0.29	0.11	221
W871404		4.2	0.21	1.9	5.8	1.18	20.7	1.55	3	74.0	0.2	0.36	0.53	0.24	0.17	182
W871405		3.2	0.31	2.1	6.4	1.18	28.1	2.23	1	98.0	0.1	0.53	0.16	0.34	0.11	296
W871406		2.3	0.32	2.0	6.0	1.06	17.7	2.20	1	105.5	0.1	0.55	0.23	0.30	0.05	297
W871407		2.9	0.31	1.9	6.3	1.27	24.5	2.07	1	117.0	0.2	0.51	0.18	0.31	0.07	305
W871408		2.7	0.28	2.0	5.5	1.13	14.3	1.89	1	133.5	0.1	0.45	0.21	0.29	0.05	298
W871409		11.5	0.18	6.7	12.3	2.99	14.7	2.69	4	239	0.5	0.44	1.30	0.18	0.47	116

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871372		5	20.6	2.33	137	1.0	0.05	0.005	0.010	<0.001	0.14	<0.2	<0.01	0.05	<0.5	<0.5
W871373		1	18.4	2.03	115	17.8	0.53	0.065	0.694	0.010	0.50	8.0	0.33	0.80	<0.5	3.7
W871374		1	8.9	0.82	59	9.6	0.18	0.034	0.371	0.003	0.11	5.0	0.27	0.37	<0.5	2.9
W871375		2	18.8	1.92	56	2.4	0.07	0.005	0.025	0.001	0.09	1.0	0.50	0.62	<0.5	<0.5
W871376		1	25.5	2.81	81	0.8	0.02	0.008	0.010	0.002	<0.05	0.3	0.02	0.19	<0.5	<0.5
W871377		1	19.7	2.34	65	<0.1	0.07	<0.005	0.015	0.001	<0.05	0.6	0.12	0.19	<0.5	<0.5
W871378		8	22.6	2.84	82	0.6	0.13	0.007	0.022	0.001	0.05	0.8	0.17	0.23	<0.5	<0.5
W871379		2	24.2	2.74	78	0.4	0.06	<0.005	0.015	0.002	<0.05	0.4	0.03	0.08	<0.5	<0.5
W871380		1	23.3	2.60	78	0.3	0.02	<0.005	0.014	0.001	0.05	0.2	0.03	0.07	<0.5	<0.5
W871381		1	23.8	2.56	80	0.5	0.02	0.005	0.017	0.002	<0.05	0.3	0.01	0.05	<0.5	<0.5
W871382		1	22.9	2.57	76	1.0	0.03	<0.005	0.016	0.003	<0.05	0.5	0.02	0.05	<0.5	<0.5
W871383		1	23.7	2.62	80	0.6	0.03	0.005	0.012	0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
W871384		1	21.9	2.63	76	0.3	0.02	<0.005	0.019	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W871385		1	22.8	2.42	76	0.3	0.02	<0.005	0.011	0.002	<0.05	0.2	0.01	0.03	<0.5	<0.5
W871386		1	23.6	2.75	82	0.7	0.02	0.007	0.013	0.002	<0.05	0.3	0.01	0.04	<0.5	<0.5
W871387		1	23.7	2.72	80	0.4	0.01	0.023	0.012	<0.001	<0.05	0.4	0.01	0.03	<0.5	<0.5
W871388		1	20.9	2.53	71	0.6	0.02	0.024	0.012	0.001	<0.05	0.6	0.01	0.05	<0.5	<0.5
W871389		2	22.1	2.45	74	0.5	0.02	<0.005	0.015	0.002	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W871390		1	24.3	2.80	83	0.6	0.02	<0.005	0.015	0.003	0.05	0.2	0.01	0.04	<0.5	<0.5
W871391		6	24.8	3.01	85	0.6	0.03	<0.005	0.014	0.001	0.05	0.3	0.01	0.04	<0.5	<0.5
W871392		7	14.3	1.48	82	43.0	0.31	0.109	0.050	0.018	1.45	12.4	1.39	0.07	2.7	0.7
W871393		2	20.0	2.39	60	0.1	0.02	<0.005	0.008	0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
W871394		<1	18.1	1.95	50	0.6	0.02	<0.005	0.009	0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W871395		16	18.4	2.00	52	0.7	0.03	<0.005	0.012	0.001	<0.05	0.4	0.02	0.09	<0.5	<0.5
W871396		<1	17.9	2.11	49	0.3	0.03	<0.005	0.016	0.001	0.06	0.3	0.03	0.10	<0.5	<0.5
W871397		2	19.4	2.12	53	0.4	0.03	<0.005	0.010	0.001	<0.05	0.3	0.02	0.09	<0.5	<0.5
W871398		13	19.3	2.21	51	0.3	0.03	<0.005	0.009	0.001	<0.05	0.4	0.03	0.07	<0.5	<0.5
W871399		<1	17.6	1.94	48	0.2	0.02	<0.005	0.019	0.001	<0.05	0.3	0.03	0.04	<0.5	<0.5
W871400		<1	17.0	1.99	46	0.3	0.05	0.005	0.034	0.001	<0.05	0.6	0.04	0.06	<0.5	<0.5
W871401		3	18.7	1.83	50	0.5	0.04	0.007	0.042	0.001	0.06	0.4	0.06	0.13	<0.5	<0.5
W871402		2	15.7	1.75	67	3.8	0.20	0.019	0.199	0.004	0.08	6.7	0.28	0.35	<0.5	1.9
W871403		6	16.4	1.63	58	6.5	0.17	0.020	0.176	0.002	0.09	5.3	0.26	0.30	<0.5	1.9
W871404		7	13.4	1.49	50	4.1	0.19	0.013	0.120	0.002	0.05	7.7	0.33	0.31	<0.5	0.9
W871405		14	18.9	2.09	48	0.7	0.10	<0.005	0.027	0.002	<0.05	0.7	0.12	0.30	<0.5	<0.5
W871406		5	16.9	1.61	48	0.2	0.04	0.005	0.013	0.002	<0.05	0.5	0.05	0.17	<0.5	<0.5
W871407		1	17.7	1.95	49	0.3	0.03	<0.005	0.017	0.001	<0.05	0.4	0.04	0.19	<0.5	<0.5
W871408		<1	16.9	1.95	48	0.3	0.03	<0.005	0.010	0.002	<0.05	0.6	0.04	0.08	<0.5	<0.5
W871409		22	11.7	1.12	84	3.5	0.78	0.014	0.062	0.005	0.29	5.3	0.55	0.09	1.8	<0.5

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062405

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
W871372		13	93	10	2	5	6	17	64	<0.001	<0.005	0.001	0.025
W871373		77	288	30	4	158	12	11	1935	0.009	<0.005	0.001	0.028
W871374		24	170	40	2	70	54	5	1395	0.002	<0.005	<0.001	0.011
W871375		35	92	50	<1	56	2	29	180	<0.001	<0.005	<0.001	<0.003
W871376		42	68	40	<1	77	<2	41	96	<0.001	<0.005	<0.001	0.206
W871377		50	159	40	1	73	<2	38	91	0.004	<0.005	0.001	0.391
W871378		48	120	50	<1	78	<2	41	92	<0.001	<0.005	<0.001	0.504
W871379		45	97	20	<1	73	<2	40	63	<0.001	<0.005	<0.001	0.460
W871380		47	89	20	<1	74	<2	39	133	<0.001	<0.005	0.001	0.255
W871381		47	88	20	<1	78	<2	41	80	<0.001	<0.005	0.001	0.252
W871382		49	130	20	<1	89	<2	41	142	<0.001	<0.005	0.001	0.346
W871383		47	121	20	<1	80	<2	41	113	<0.001	<0.005	0.001	0.317
W871384		44	94	20	<1	72	<2	39	80	<0.001	<0.005	0.001	0.160
W871385		45	93	20	<1	78	<2	40	142	<0.001	<0.005	<0.001	0.123
W871386		50	119	20	<1	80	5	42	191	<0.001	<0.005	0.001	0.193
W871387		47	117	20	<1	79	<2	40	148	<0.001	<0.005	0.001	0.207
W871388		50	123	20	<1	80	<2	42	181	<0.001	<0.005	0.001	0.265
W871389		45	114	20	<1	71	<2	40	94	<0.001	<0.005	<0.001	0.177
W871390		43	116	30	<1	60	<2	42	75	<0.001	<0.005	<0.001	0.103
W871391		46	78	30	<1	66	<2	42	92	<0.001	<0.005	<0.001	0.130
W871392		157	5680	40	2	2200	3	25	78	0.086	0.731	0.356	10.10
W871393		43	69	30	<1	112	<2	40	67	<0.001	<0.005	<0.001	0.076
W871394		45	123	30	<1	124	<2	40	88	<0.001	<0.005	<0.001	0.174
W871395		47	126	40	<1	129	<2	42	112	<0.001	<0.005	<0.001	0.148
W871396		43	102	50	<1	128	<2	40	60	<0.001	<0.005	<0.001	0.241
W871397		47	139	30	<1	132	<2	41	69	<0.001	<0.005	<0.001	0.347
W871398		49	139	20	<1	134	<2	40	102	<0.001	<0.005	0.001	0.359
W871399		45	116	30	<1	126	<2	40	96	<0.001	<0.005	<0.001	0.289
W871400		46	101	30	<1	133	<2	40	174	0.001	<0.005	<0.001	0.388
W871401		39	76	30	<1	121	<2	40	256	<0.001	<0.005	0.001	0.350
W871402		28	426	40	1	112	7	28	1140	0.002	<0.005	0.001	4.90
W871403		49	345	30	<1	114	2	30	1035	0.005	<0.005	<0.001	3.67
W871404		41	577	20	4	148	5	23	557	0.013	<0.005	0.003	4.95
W871405		67	263	30	<1	148	<2	40	140	0.001	<0.005	0.002	0.550
W871406		45	104	30	<1	141	<2	42	81	<0.001	<0.005	0.003	0.326
W871407		53	123	30	<1	146	<2	41	112	0.001	<0.005	0.004	0.312
W871408		54	154	20	<1	148	<2	42	92	<0.001	<0.005	0.003	0.447
W871409		109	4320	20	4	4310	20	11	96	0.071	0.300	0.626	3.68

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CERTIFICATE OF ANALYSIS TB18062405

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		