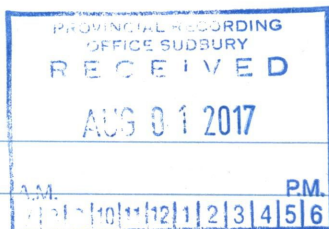


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JULY 24/17

DEAR SIR,

FROM JUNE 15, 16, 19, 20, 21 I ACQUIRED
22 GRAB SAMPLES FROM MY BLOCK CLAIM
4242292 - 4 UNITS.

I DROVE 3 KILOMETRES FROM MY
ATIKOKAN RESIDENCE TO HIGHWAY 622,
THEN TRAVELLED NORTHWEST FOR 25 KMS.
TO THE HARDACK ROAD, AND PROCEEDED
NORTHEASTERLY UP THE HARDACK ROAD
FOR 3 KMS. FROM THERE I WENT 1.5 KMS.
BY ATV TO VARIOUS TARGET AREAS ON 2 TRAILS
WHICH I HAD CUT.

THESE 22 GRAB SAMPLES ORIGINATED
FROM THE OUTSIDE FRINKLES OF THE AREA
I SAMPLED IN 2016.

JUNE 22 I TOOK THE 22 SAMPLES
210 KMS. TO ACT LABS IN THUNDER BAY
TO BE ASSAYED.

SAMPLE SITE DESCRIPTIONS

SAMPLE #41 - PYRAMID SHAPED HUMP
20 FEET ACROSS BASE, 8 FEET HIGH. SCATTERED
SLABS 18 INCHES WIDE. MOSS COVERED FACE,
FACING EAST. DARK GRAY SAMPLE WITH
SLIGHT QUARTZ PRESENCE, SCATTERED YELLOW
SPICKS, ALSO CRIMSON AND PURPLE. SHALLOW
SOIL 6 INCHES DEEP, THIRTY YEAR CUTOVER

THIRTY PERCENT WHITE BIRCH, 30% BALSAM,
10% WHITE PINE, 30% MOUNTAIN MAPLE, ALL
REGENERATION 25 FEET HIGH.

SAMPLE # 42

ROUNDED LOW HUMP ON WEST SIDE
OF A SLIGHT TROUGH RUNNING NORTHWEST.
HUMP IS 2 FEET HIGH, 20 FEET LONG, 10 FEET WIDE
TROUGH IS 5 FEET DEEP. DARK GRAY SHARP
FRAGMENTS 15 INCHES BY 8 INCHES. NUMEROUS
SILVER COLOURED SPECKS. RUST COLOURED
THIN LINE BISSECTING SAMPLE. SLIGHT QUARTZ
PRESENCE. SMALL RUST STAIN PATCH 1" DIAMETER.
THIRTY YEAR CUTOVER - 30% WHITE BIRCH,
30% BALSAM FIR, 10% WHITE PINE, 30% MOUNTAIN
MAPLE, ALL REGENERATION 25 FEET HIGH.
SOIL DEPTH 6 INCHES.

SAMPLE # 43

ROUNDED SMALL OUTCROP - 4 FEET BY
5 FEET AND 2 FEET HIGH. MEDIUM GRAY
SAMPLE WITH $\frac{1}{2}$ INCH SEAM OF RUSTY QUARTZ
WITH TINY SILVERISH SPECKS. ROCK IS MOSS
COVERED, SHALLOW SOIL 3" DEEP IN ADJOINING
AREA NEXT TO A BLACK SPRUCE SWAMP TO
THE SOUTH. TALL CLUMP OF 20% RED PINE,
10% WHITE PINE, 10% WHITE BIRCH, 20% BALSAM,
20% BLACK SPRUCE, 20% MOUNTAIN MAPLE.
STAND IS 80 YEARS OLD, NOT LOGGED.

SAMPLE #44

FACE 6 FEET HIGH ALONG A SHALLOW RAVINE
RUNNING NORTH. MEDIUM GRAY VARIETY OF BOULDERS
AND LARGE SEPARATED SLICES. SAMPLE IS MEDIUM GRAY
WITH $\frac{1}{4}$ INCH SIGNIFICANT RUST STREAKS AND MILD
QUARTZ PRESENCE. SOIL DEPTH 3 INCHES. THIRTY
YEAR CUTOVER - 70% BALSAM, 20% WHITE BIRCH,
10% POPLAR. MOSS COVERED ROCK.

SAMPLE #45

ROUNDED BOLA FACE 5 FEET HIGH RUNNING
NORTHWEST. SCATTERED BOULDERS AND LARGE
FRAGMENTED SLICES. SAMPLE WAS MEDIUM GRAY
WITH LARGE RUST PRESENCE. SOIL DEPTH 3 INCHES,
THIRTY YEAR CUTOVER - 10% WHITE PINE, 10% BLACK
SPRUCE, 80% BALSAM. ALL REGENERATION 25 FEET
HIGH.

SAMPLE #46

SMALL OUTCROP ON NORTH SIDE OF
LOW OVAL KNOLL. MEDIUM GRAY SAMPLE
WITH STRONG RUST PRESENCE. MOSS COVERED
ROCK, SOIL DEPTH 3 INCHES. MATURE
TIMBER 60 FEET HIGH - 30% CEDAR,
20% POPLAR, 10% WHITE BIRCH, 30% BLACK SPRUCE,
10% BALSAM.

SAMPLE #47

GENTLE ROLLING MOUND 40 FEET X 50 FEET AND 8 FEET HIGH, MOSTLY ROCK, DARK GRAY WITH OCASIONAL SMALL FRAGMENTS ADJACENT TO A BLACK SPRUCE AND TAMARACK SWAMP, RUNNING NORTH, MOSS COVERED, SOIL DEPTH 3 INCHES. SAMPLE WAS ALMOST ALL RUST WITH SCATTERED SILVERISH SPECKS. THIRTY YEAR CUTOVER - 30% WHITE PINE, 40% RED PINE, 20% JACK PINE, 10% WHITE BIRCH ALL NATURAL REGENERATION 25 FEET HIGH.

SAMPLE #48

ROLLING FACE ON EAST SIDE OF SAME GENTLE ROLLING AS SAMPLE #47. MEDIUM GRAY VERY HARD ROCK WITH LIGHT AMOUNT OF RUST AND SCATTERED SILVERY SPECKS. LIGHT PRESENCE OF QUARTZ ON TOP OF MOUND. SOIL DEPTH 3 INCHES. THIRTY YEAR CUTOVER - 30% BALSAM, 30% WHITE BIRCH, 10% MOUNTAIN MAPLE, 20% ALDERS, 10% BLACK SPRUCE, ALL NATURAL REGENERATION 25 FEET HIGH.

SAMPLE #49

FACE 10 FEET HIGH X 25 FEET LONG RUNNING NORTH. STRONG RUST PRESENCE WITH SILVERY SPECKS AND RUSTY QUARTZ. THIRTY YEAR CUTOVER - 30% WHITE BIRCH, 10% CEDAR, 40% MOUNTAIN MAPLE 10% BLACK SPRUCE, 10% BALSAM ALL NATURAL REGENERATION 25 FEET HIGH. SOIL DEPTH 3 INCHES.

SAMPLE # 50

DARK GRAY ROCK IN SAMPLE WITH RUST, SILVERISH SPECKS, AND YELLOWISH STREAKS TAKEN FROM WEST SIDE OF SHALLOW RAVINE RUNNING NORTH. FACE IS 10 FEET HIGH AND 70 FEET LONG. SOIL DEPTH 3 INCHES. THIRTY YEAR CUTOVER - 40% BALSAM, 20% WHITE BIRCH, 10% POPLAR, 10% ALDER, 20% MOUNTAIN MAPLE, ALL NATURAL REGENERATION 25 FEET HIGH.

SAMPLE # 51

SAME FACE AS SAMPLE # 50, 100 FEET TO THE NORTH. SAMPLE ROCK IS MEDIUM GRAY WITH PINK AND RUST COLOURING, QUARTZ PRESENCE WITH SILVERISH SPECKS AND FLAKES. SOIL DEPTH 6 INCHES. THIRTY YEAR CUTOVER - 20% WHITE BIRCH, 40% BALSAM, 20% POPLAR, 10% MOUNTAIN MAPLE 10% CEDAR, ALL NATURAL REGENERATION 25 FEET HIGH

SAMPLE # 52

SAME FACE AS SAMPLES # 50 AND # 51 5 FEET HIGH, RUNNING NORTH. DARK GRAY SAMPLE WITH STRONG RUST PRESENCE, SMALL SILVERISH AND YELLOWISH SPECKS. NOTICEABLE WEIGHT, SLIGHT "SLICK AND SLID" SHEEN. THIRTY YEAR CUTOVER - 30% BALSAM, 30% POPLAR, 20% WHITE BIRCH, 20% MOUNTAIN MAPLE, ALL NATURAL REGENERATION 25 FEET HIGH, SOIL DEPTH 6 INCHES.

SAMPLE # 53

ROUND LOW ROUNDED RIDGE, 20 FEET HIGH RUNNING NORTH EAST FACE 5 FEET HIGH AND FIVE FEET LONG. MOSS COVERED. SOIL DEPTH 6 INCHES. MEDIUM GRAY SAMPLE WITH RUST AND SCATTERED SILVERISH SPECIES. THIRTY YEAR CUTOVER - 20% WHITE BIRCH, 50% BALSAM, 20% MOUNTAIN MAPLE, 10% POPLAR. ALL NATURAL REGENERATION 20 FEET HIGH.

SAMPLE # 54

MEDIUM GRAY FRACTURED ROCK ON TOP OF ROUNDED LOW GENTLE RIDGE 20 FEET HIGH. RUST WITH SILVERISH SPECIES AND A FEW SILVERISH CLUSTERS. SOIL DEPTH 6 INCHES THIRTY YEAR CUTOVER - 10% WHITE BIRCH, 20% POPLAR, 30% BALSAM, 40% MOUNTAIN MAPLE, ALL NATURAL REGENERATION 20 FEET HIGH.

SAMPLE # 55

MEDIUM GRAY SAMPLE WITH RUST, ALSO SILVERISH SPECIES AND CLUSTERS. SAMPLE WAS POKING UP THROUGH TOP EDGES OF GENTLY ROUNDED LOW RIDGE, 10 FEET HIGH, RUNNING NORTH. THIRTY YEAR CUTOVER - 10% CEDAR, 50% WHITE BIRCH, 30% MOUNTAIN MAPLE, 10% BALSAM. ALL NATURAL REGENERATION 20 FEET HIGH.

SAMPLE # 56

LIGHT GRAY AND FLESH COLOURED
SAMPLE WITH $\frac{1}{2}$ INCH QUARTZ VERN. RUST
WITH BLACK SILVERISH, AND YELLOW SPECKS
NOTICEABLE WEIGHT. SAMPLE TAKEN FROM
GENTLE STEADY GRADE FACING NORTH, BESIDE A
FRACTURED BOULDER 2 FEET IN DIAMETER. THIRTY
YEAR CUTOVER - 10% JACK PINE, 30% WHITE
BIRCH, 30% POPLAR, 20% MOUNTAIN MAPLE,
10% BALSAM, ALL NATURAL REGENERATION
20 FEET HIGH. SOIL DEPTH 6 INCHES

SAMPLE # 57

MEDIUM GRAY ROCK WITH RUST,
 $\frac{3}{4}$ INCH QUARTZ VERN WITH A FEW SCATTERED
SILVERISH AND LIGHT AMBER SPECKS, FOUND
ON A ROCK KNOWN 20 FEET HIGH, WITH
UPWARD SLOPE OF 40 DEGREES, AND OCCASIONAL
SEPARATED FRAGMENTS. KNOWN RUNNING IN
NORTHEASTLY DIRECTION. MOSS COVERED, SOIL
DEPTH 3 INCHES. THIRTY YEAR CUT - 60% BALSAM,
10% MOUNTAIN MAPLE, 20% BLACK SPRUCE,
10% POPLAR, ALL NATURAL REGENERATION
20 FEET HIGH.

SAMPLE # 58

SAMPLE LAYING ON TOP OF LEDGE ON
A RIDGE RUNNING NORTH. STRONG RUST WITH QUARTZ
PRESENCE. SILVERISH SPECKS AND PURPLE SPECKS.
SOIL DEPTH 3 INCHES. THIRTY YEAR CUTOVER -
20% WHITE BIRCH, 20% BALSAM, 20% POPLAR,
20% MOUNTAIN MAPLE, 10% BLACK SPRUCE,
10% CEDAR, ALL NATURAL REGENERATION 25 FEET
HIGH

SAMPLE # 59

MEDIUM GRAY HOST ROCK WITH STRONG RUST STREAKS AND BANDS WITH MANY SILVERISH SPECKS AND A FEW FAINT YELLOW CLUSTERS. TAKEN FROM A MOSS COVERED BEDROCK HUMMOCK 60 FEET X 20 FEET AND 5 FEET HIGH. SOIL DEPTH 1 INCH. THIRTY YEAR CUTOVER - 10% WHITE PINE, 30% BLACK SPRUCE, 30% BALSAM, 20% WHITE BIRCH, 10% MOUNTAIN MAPLE. ALL NATURAL REGENERATION 20 FEET HIGH.

SAMPLE # 60

MEDIUM GRAY BASE ROCK, RUST WITH MANY SILVERISH SPECKS ALSO SOME LIGHT YELLOWISH SPECIES. SAMPLE IS FRACTURED IN LAYERS AND PICKED UP FROM A GENTLY SLOPED KNOWL 20 FEET HIGH. SOIL DEPTH 6 INCHES. THIRTY YEAR CUTOVER - 40% BALSAM, 20% MOUNTAIN MAPLE, 20% WHITE BIRCH, 10% BLACK SPRUCE, 10% POPLAR. ALL NATURAL REGENERATION 20 FEET HIGH.

SAMPLE # 61

DARK GRAY HOST ROCK. RUST BANDS WITH SILVERISH SPECKS AND STREAKS. SAMPLE TAKEN FROM SAME GENTLY SLOPED KNOWL AS IN SAMPLE # 60. MOSS COVER ON FRACTURED ROCK PIECES MEASURING 2 FEET X 1 FOOT. SOIL DEPTH 3 INCHES. THIRTY YEAR CUTOVER - 30% WHITE BIRCH, 10% JACK PINE, 20% POPLAR, 10% BALSAM, 30% MOUNTAIN MAPLE. ALL NATURAL REGENERATION 25 FEET HIGH.

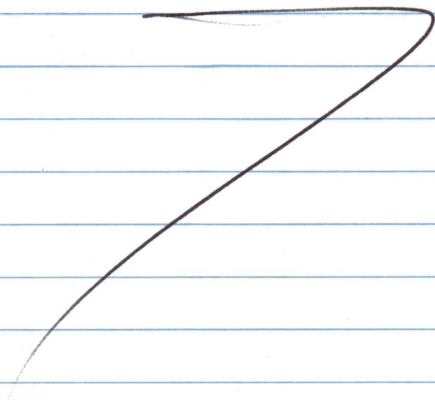
SAMPLE # 62

HOT ROCK MEDIUM GRAY WITH RUST,
NUMEROUS SILVERISH, GREEN, AMBER, AND
PURPLE SPINES. NOTICEABLE WEIGHT. SAME
LOCATED ON A GENTLE ROUNDED KNOLL JAMMED
IN ROOT SYSTEM OF A FALLEN BALSAM. SOIL
DEPTH 6 INCHES. THIRTY YEAR CUTOVER -
20% BALSAM, 40% WHITE BIRCH, 10% WHITE PINE,
20% BLACK SPRUCE, 10% MOUNTAIN MAPLE AND
1 TALL WHITE PINE 70 FEET TALL. NATURAL
REGENERATION 25 FEET HIGH.

IN SECTION 6(B) I ENTERED \$1600.00 AS
WORK PERFORMED, BUT ACTUALLY THE TOTAL
WORK PERFORMED IS \$2425.73 BUT I DID NOT
KNOW WHAT TO DO WITH THE EXCESS \$825.73.
I WILL BE AWAY FOR AWHILE, BUT WHEN I
RETURN I WILL CONTACT YOU IN ORDER TO
CLARIFY THE SITUATION.

Thank you.

Yours truly,
Dan Mahaley



Date / Time of Issue: Thu Nov 14 13:49:29 EST 2013

TOWNSHIP / AREA
FINLAYSON LAKE AREA



ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division
Land Titles/Registry Division
Ministry of Natural Resources District

Thunder Bay
RAINY RIVER
FORT FRANCES

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

Freehold Patent

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation

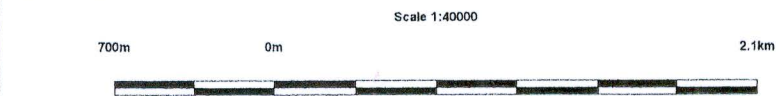
- Uses Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order In Council (Not open for st
- Water Power Lease Agreement

WHITE OTTER LAKE AREA	LITTLE GULL LAKE AREA	NORWAY LAKE AREA
CROWROCK LAKE AREA	FINLAYSON LAKE AREA	SAWBILL BAY AREA
BAKER	FREEBORN	SCHWENGER
MCQUAT LAKE AREA	MCALPINE LAKE AREA	PICKEREL LAKE AREA

- 1234567 Mining Claim
- 1234567 Filed Only Mining C

LAND TENURE WITHDRAWALS

- 1234 Areas Withdrawn from Dispc
- Mining Acts Withdrawal Typ
- Surface And Mining Rights Wt
- Surface Rights Only Withdraw
- Mining Rights Only Withdraw
- Order In Council Withdrawal
- Surface And Mining Rights Wt
- Surface Rights Only Withdraw
- Mining Rights Only Withdraw
- W'sm
- W's
- W'm
- Ns IMPORTANT NC



LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
2722	Wsm	Jan 1, 2001	SEC.43 MG ACT W21/80 NCR 30/6/80 SR 163472
W-TB-30/95	Wsm	Jul 26, 1995	SURFACE & MINING RIGHTS WITHDRAWN FROM STAKING, TC
W-TB-33/94	Ws	May 2, 1994	FOREST RESEARCH SAMPLE PLOTS ORDER W-TB-30/95 NWI
W-TB-99/09	Ws	Sep 4, 2009	SURFACE RIGHTS WITHDRAWN FROM STAKING, ORDER W-T
			94/05/02 FOR A WATER POWER GENERATING STATION
			W-TB-99/09 S
			withdrawal S.35 Mining Act RSO 1999, September 3, 2009 Click to
			withdrawal order
W12/79	Wm	Jan 1, 2001	ATOMIC WASTE DISPOSAL SITE (PROPOSED) W12/79 16/7/79

IMPORTANT NOTICES

Areas under which special regulation, limitations or conditions exist that affect normal prospecting, staking and mineral

mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional
us of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information
omplied from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the
gistry Office, or the Ministry of Natural Resources.

is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern
s web site.

General Information and Limitations

Contact Information:
Provincial Mining Recorders' Office
Willet Green Miller Centre 933 Ramsey Lake Road
Sudbury ON P3E 6B5
Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Toll Free
Tel: 1 (888) 415-9845 ext 5742
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information on Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in
land including certain patents, leases, easements, right of ways,
flooding rights, licences, or other forms of disposition of rights
and interest from the Crown. Also certain land tenure and land
uses that restrict or prohibit free entry to stake mining claims may
not be illustrated.

BLOCK CLAIM 4242292-4UNITS
THUNDER BAY DIVISION
FINLAYSON LAKE AREA G0528
SCALE 1:5000

METRES
0 200 400

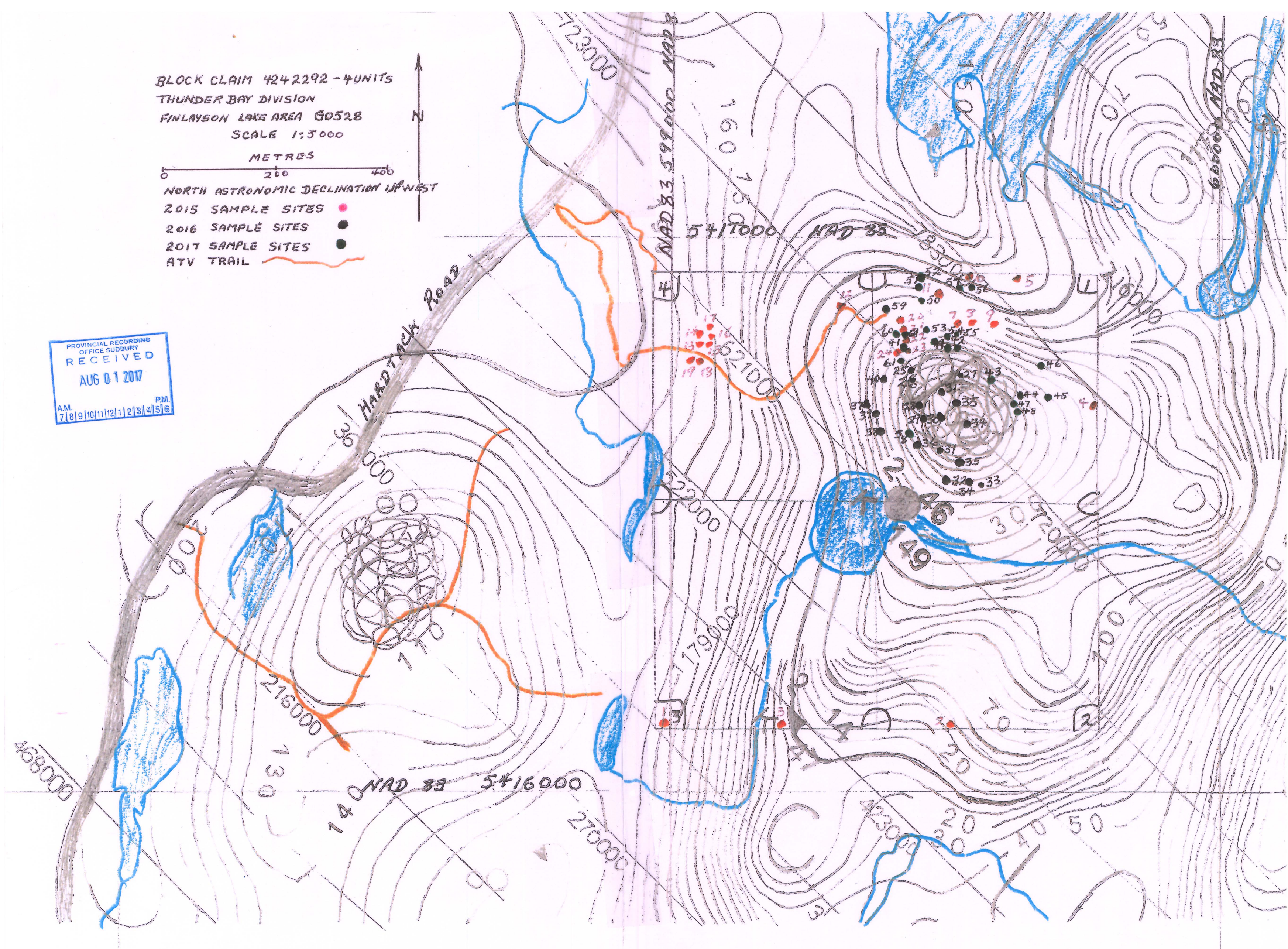
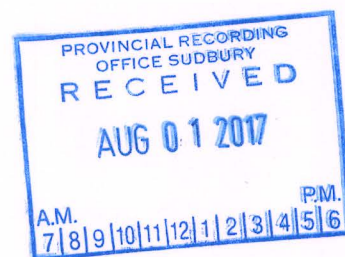
NORTH ASTRONOMIC DECLINATION 14° WEST

2015 SAMPLE SITES ●

2016 SAMPLE SITES ●

2017 SAMPLE SITES ●

ATV TRAIL



Quality Analysis ...



Innovative Technologies

Date Submitted: 22-Jun-17

Invoice No.: A17-06289

Invoice Date: 06-Jul-17

Your Reference:

Dan Whaley

Box 771

Atikoken Ontario P0T 1C0

Canada

ATTN: Dan Whaley

CERTIFICATE OF ANALYSIS

22 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT A17-06289

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, consisting of a stylized 'E' followed by a series of loops and a horizontal line.

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A17-06289

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	36	< 0.2	< 0.5	1100	282	< 1	37	< 2	14	0.28	9	< 10	44	< 0.5	< 2	2.76	21	19	9.16	< 10	< 1	0.04	< 10
42	< 5	< 0.2	< 0.5	39	506	< 1	50	< 2	68	2.49	< 2	< 10	254	< 0.5	< 2	1.01	19	89	3.66	< 10	< 1	1.30	14
43	< 5	< 0.2	< 0.5	108	311	< 1	25	< 2	71	1.73	< 2	< 10	222	< 0.5	< 2	0.93	11	76	2.63	< 10	< 1	0.97	16
44	< 5	< 0.2	< 0.5	46	598	< 1	21	< 2	65	2.20	< 2	< 10	207	< 0.5	< 2	1.74	14	50	3.77	< 10	< 1	1.52	19
45	< 5	< 0.2	< 0.5	105	446	< 1	88	< 2	29	1.56	< 2	< 10	14	< 0.5	< 2	2.42	23	47	2.57	< 10	< 1	0.05	< 10
46	< 5	< 0.2	< 0.5	113	742	< 1	72	< 2	28	1.95	< 2	< 10	11	< 0.5	< 2	4.37	24	62	3.11	< 10	< 1	0.04	< 10
47	< 5	0.4	< 0.5	181	719	< 1	10	< 2	63	2.89	6	< 10	96	< 0.5	< 2	2.37	16	24	7.84	< 10	< 1	0.35	< 10
48	< 5	< 0.2	< 0.5	72	645	7	71	< 2	47	2.06	2	< 10	24	< 0.5	< 2	3.00	26	85	3.92	< 10	< 1	0.13	< 10
49	< 5	0.2	< 0.5	78	589	< 1	70	< 2	40	1.98	3	< 10	59	< 0.5	< 2	2.24	26	85	4.07	< 10	< 1	0.11	< 10
50	10	< 0.2	< 0.5	158	1280	< 1	21	6	111	2.23	< 2	< 10	153	< 0.5	< 2	2.59	23	11	8.10	10	1	1.61	39
51	< 5	< 0.2	< 0.5	22	330	< 1	13	5	46	1.31	< 2	< 10	113	< 0.5	< 2	0.69	9	34	2.22	< 10	< 1	0.57	17
52	< 5	< 0.2	< 0.5	93	725	< 1	281	< 2	58	1.89	< 2	< 10	34	< 0.5	< 2	2.48	27	239	3.74	< 10	< 1	0.09	12
53	9	< 0.2	< 0.5	114	1330	< 1	20	< 2	115	1.74	4	< 10	226	0.5	< 2	1.61	23	10	8.40	< 10	2	1.40	35
54	< 5	< 0.2	< 0.5	60	436	1	21	4	91	2.27	< 2	< 10	217	< 0.5	< 2	0.86	14	40	3.59	< 10	< 1	1.19	14
55	< 5	< 0.2	0.7	44	507	< 1	54	5	64	3.01	< 2	< 10	388	< 0.5	< 2	1.05	21	96	3.85	< 10	< 1	1.48	15
56	< 5	< 0.2	< 0.5	4	467	< 1	38	7	63	1.46	< 2	< 10	117	< 0.5	< 2	0.63	11	52	2.44	< 10	< 1	0.90	12
57	< 5	< 0.2	< 0.5	89	684	< 1	69	< 2	46	2.49	2	< 10	15	< 0.5	< 2	2.59	25	97	4.47	< 10	< 1	0.10	< 10
58	< 5	< 0.2	< 0.5	80	646	2	49	< 2	53	1.67	< 2	< 10	27	< 0.5	< 2	2.14	19	67	4.53	< 10	< 1	0.11	< 10
59	< 5	< 0.2	< 0.5	44	786	< 1	25	< 2	66	2.61	< 2	< 10	51	< 0.5	< 2	2.78	27	28	6.55	< 10	2	0.24	< 10
60	< 5	< 0.2	< 0.5	43	732	< 1	24	< 2	58	2.34	< 2	< 10	35	< 0.5	< 2	2.71	21	50	5.74	< 10	< 1	0.17	< 10
61	< 5	< 0.2	< 0.5	36	536	< 1	68	3	64	1.65	< 2	< 10	117	< 0.5	< 2	1.73	19	70	2.84	< 10	< 1	0.23	11
62	< 5	< 0.2	< 0.5	131	738	1	28	< 2	58	2.28	< 2	< 10	26	< 0.5	< 2	2.99	20	29	6.15	< 10	1	0.17	< 10

Results

Activation Laboratories Ltd.

Report: A17-06289

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	0.27	0.044	0.021	0.09	3	2	148	1.29	< 20	20	< 2	< 10	409	< 10	7	9
42	1.85	0.159	0.061	0.01	< 2	10	20	0.27	< 20	1	< 2	< 10	97	< 10	10	3
43	1.15	0.102	0.152	0.01	< 2	10	20	0.27	< 20	8	2	< 10	75	< 10	18	3
44	1.27	0.148	0.064	0.01	< 2	12	19	0.28	< 20	< 1	< 2	< 10	89	< 10	14	15
45	1.13	0.127	0.018	0.05	< 2	9	33	0.29	< 20	4	< 2	< 10	62	< 10	5	3
46	1.21	0.192	0.018	0.10	< 2	9	34	0.28	< 20	3	< 2	< 10	77	< 10	4	2
47	1.83	0.185	0.063	0.41	3	12	29	0.52	< 20	2	< 2	< 10	174	< 10	11	4
48	1.70	0.245	0.023	0.09	< 2	17	18	0.30	< 20	3	< 2	< 10	114	< 10	9	2
49	1.33	0.172	0.034	0.21	< 2	11	29	0.35	< 20	12	< 2	< 10	90	< 10	7	3
50	1.17	0.159	0.097	0.53	< 2	3	239	0.44	< 20	8	< 2	< 10	61	< 10	12	9
51	0.72	0.096	0.031	0.01	< 2	3	38	0.19	< 20	2	< 2	< 10	43	< 10	3	3
52	2.66	0.184	0.031	0.06	< 2	7	8	0.24	< 20	3	< 2	< 10	54	< 10	6	4
53	1.23	0.154	0.101	0.11	2	2	314	0.45	< 20	6	< 2	< 10	62	< 10	11	9
54	1.15	0.106	0.069	0.10	3	6	21	0.23	< 20	4	< 2	< 10	61	< 10	12	2
55	1.95	0.213	0.059	< 0.01	< 2	12	30	0.29	< 20	1	< 2	< 10	106	< 10	12	3
56	1.05	0.124	0.046	< 0.01	< 2	7	19	0.19	< 20	2	< 2	< 10	56	< 10	10	8
57	1.98	0.275	0.025	0.03	2	16	10	0.22	< 20	2	< 2	< 10	119	< 10	8	2
58	1.53	0.198	0.028	0.04	< 2	16	14	0.36	< 20	7	< 2	< 10	138	< 10	11	3
59	1.61	0.345	0.058	< 0.01	3	18	12	0.28	< 20	5	< 2	< 10	193	< 10	16	5
60	1.51	0.357	0.051	0.03	< 2	18	14	0.24	< 20	3	< 2	< 10	178	< 10	12	3
61	1.33	0.183	0.069	0.09	< 2	11	17	0.28	< 20	5	< 2	< 10	90	< 10	10	3
62	1.36	0.327	0.063	0.23	3	17	16	0.39	< 20	4	< 2	< 10	224	< 10	17	5

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		30.4	2.9	1150	872	13	30	650	704	0.34	417	< 10	453	0.8	1450	0.81	6	7	22.5	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		31.6	2.8	1180	868	13	38	666	719	0.35	413	12	291	0.8	1480	0.83	5	7	23.2	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.7	0.5	6610	143	300	41	45	78	2.80	105	< 10	72	1.4	27	0.97	13	56	3.10	< 10	< 1	1.69	47
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.9	< 0.5	6480	145	303	40	48	76	2.78	107	< 10	38	1.4	43	0.98	13	58	3.11	< 10	< 1	1.68	44
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	< 0.5	70	1060	2	26	97	127	7.15	259	< 10	897	0.9	< 2	0.15	12	83	5.90	10	3	1.14	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.3	< 0.5	70	1080	2	25	101	128	7.22	239	< 10	884	0.9	< 2	0.15	12	83	5.97	10	3	1.14	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OREAS 223 (Fire Assay) Meas	1770																						
OREAS 223 (Fire Assay) Cert	1780																						
OREAS 218 Meas	528																						
OREAS 218 Cert	525																						
46 Orig		< 0.2	< 0.5	113	748	< 1	73	< 2	28	1.95	< 2	< 10	11	< 0.5	< 2	4.41	25	62	3.11	< 10	< 1	0.04	< 10
46 Dup		< 0.2	< 0.5	113	737	< 1	71	< 2	29	1.96	< 2	< 10	11	< 0.5	< 2	4.34	24	61	3.12	< 10	< 1	0.04	< 10
50 Orig	9																						
50 Dup	10																						
60 Orig	< 5																						
60 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

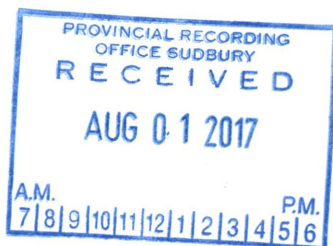
Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.051	0.043	0.21	86	1	178	< 0.01	< 20	17	< 2	33	74	171	24	13
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	0.14	0.050	0.044	0.21	89	1	177	< 0.01	< 20	15	2	34	76	173	25	13
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.63	0.138	0.122	1.82	5	7	74	0.14	< 20	5	< 2	< 10	80	13	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	1.63	0.134	0.122	1.84	3	7	71	0.13	< 20	4	3	< 10	79	12	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.42	0.085	0.033	0.02	3	20	28		< 20	< 1	3	< 10	170	< 10	5	11
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	0.42	0.082	0.033	0.01	5	20	28		< 20	< 1	< 2	< 10	169	< 10	5	8
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
OREAS 223 (Fire Assay) Meas																
OREAS 223 (Fire Assay) Cert																
OREAS 218 Meas																
OREAS 218 Cert																
46 Orig	1.20	0.191	0.018	0.10	3	9	34	0.28	< 20	4	< 2	< 10	77	< 10	4	2
46 Dup	1.21	0.193	0.018	0.10	< 2	9	34	0.28	< 20	2	< 2	< 10	77	< 10	4	2
50 Orig																
50 Dup																
60 Orig																
60 Dup																
Method Blank																
Method Blank																
Method Blank	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	36	< 0.2	< 0.5	1100	282
42	< 5	< 0.2	< 0.5	39	506
43	< 5	< 0.2	< 0.5	108	311
44	< 5	< 0.2	< 0.5	46	598
45	< 5	< 0.2	< 0.5	105	446
46	< 5	< 0.2	< 0.5	113	742
47	< 5	0.4	< 0.5	181	719
48	< 5	< 0.2	< 0.5	72	645
49	< 5	0.2	< 0.5	78	589
50	10	< 0.2	< 0.5	158	1280
51	< 5	< 0.2	< 0.5	22	330
52	< 5	< 0.2	< 0.5	93	725
53	9	< 0.2	< 0.5	114	1330
54	< 5	< 0.2	< 0.5	60	436
55	< 5	< 0.2	0.7	44	507
56	< 5	< 0.2	< 0.5	4	467
57	< 5	< 0.2	< 0.5	89	684
58	< 5	< 0.2	< 0.5	80	646
59	< 5	< 0.2	< 0.5	44	786
60	< 5	< 0.2	< 0.5	43	732
61	< 5	< 0.2	< 0.5	36	536
62	< 5	< 0.2	< 0.5	131	738



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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	< 1	37	< 2	14	0.28
42	< 1	50	< 2	68	2.49
43	< 1	25	< 2	71	1.73
44	< 1	21	< 2	65	2.2
45	< 1	88	< 2	29	1.56
46	< 1	72	< 2	28	1.95
47	< 1	10	< 2	63	2.89
48	7	71	< 2	47	2.06
49	< 1	70	< 2	40	1.98
50	< 1	21	6	111	2.23
51	< 1	13	5	46	1.31
52	< 1	281	< 2	58	1.89
53	< 1	20	< 2	115	1.74
54	1	21	4	91	2.27
55	< 1	54	5	64	3.01
56	< 1	38	7	63	1.46
57	< 1	69	< 2	46	2.49
58	2	49	< 2	53	1.67
59	< 1	25	< 2	66	2.61
60	< 1	24	< 2	58	2.34
61	< 1	68	3	64	1.65
62	1	28	< 2	58	2.28

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	9	< 10	44	< 0.5	< 2
42	< 2	< 10	254	< 0.5	< 2
43	< 2	< 10	222	< 0.5	< 2
44	< 2	< 10	207	< 0.5	< 2
45	< 2	< 10	14	< 0.5	< 2
46	< 2	< 10	11	< 0.5	< 2
47	6	< 10	96	< 0.5	< 2
48	2	< 10	24	< 0.5	< 2
49	3	< 10	59	< 0.5	< 2
50	< 2	< 10	153	< 0.5	< 2
51	< 2	< 10	113	< 0.5	< 2
52	< 2	< 10	34	< 0.5	< 2
53	4	< 10	226	0.5	< 2
54	< 2	< 10	217	< 0.5	< 2
55	< 2	< 10	388	< 0.5	< 2
56	< 2	< 10	117	< 0.5	< 2
57	2	< 10	15	< 0.5	< 2
58	< 2	< 10	27	< 0.5	< 2
59	< 2	< 10	51	< 0.5	< 2
60	< 2	< 10	35	< 0.5	< 2
61	< 2	< 10	117	< 0.5	< 2
62	< 2	< 10	26	< 0.5	< 2

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	2.76	21	19	9.16	< 10
42	1.01	19	89	3.66	< 10
43	0.93	11	76	2.63	< 10
44	1.74	14	50	3.77	< 10
45	2.42	23	47	2.57	< 10
46	4.37	24	62	3.11	< 10
47	2.37	16	24	7.84	< 10
48	3	26	85	3.92	< 10
49	2.24	26	85	4.07	< 10
50	2.59	23	11	8.1	10
51	0.69	9	34	2.22	< 10
52	2.48	27	239	3.74	< 10
53	1.61	23	10	8.4	< 10
54	0.86	14	40	3.59	< 10
55	1.05	21	96	3.85	< 10
56	0.63	11	52	2.44	< 10
57	2.59	25	97	4.47	< 10
58	2.14	19	67	4.53	< 10
59	2.78	27	28	6.55	< 10
60	2.71	21	50	5.74	< 10
61	1.73	19	70	2.84	< 10
62	2.99	20	29	6.15	< 10

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	< 1	0.04	< 10	0.27	0.044
42	< 1	1.3	14	1.85	0.159
43	< 1	0.97	16	1.15	0.102
44	< 1	1.52	19	1.27	0.148
45	< 1	0.05	< 10	1.13	0.127
46	< 1	0.04	< 10	1.21	0.192
47	< 1	0.35	< 10	1.83	0.185
48	< 1	0.13	< 10	1.7	0.245
49	< 1	0.11	< 10	1.33	0.172
50	1	1.61	39	1.17	0.159
51	< 1	0.57	17	0.72	0.096
52	< 1	0.09	12	2.66	0.184
53	2	1.4	35	1.23	0.154
54	< 1	1.19	14	1.15	0.106
55	< 1	1.48	15	1.95	0.213
56	< 1	0.9	12	1.05	0.124
57	< 1	0.1	< 10	1.98	0.275
58	< 1	0.11	< 10	1.53	0.198
59	2	0.24	< 10	1.61	0.345
60	< 1	0.17	< 10	1.51	0.357
61	< 1	0.23	11	1.33	0.183
62	1	0.17	< 10	1.36	0.327

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	0.021	0.09	3	2	148
42	0.061	0.01	< 2	10	20
43	0.152	0.01	< 2	10	20
44	0.064	0.01	< 2	12	19
45	0.018	0.05	< 2	9	33
46	0.018	0.1	< 2	9	34
47	0.063	0.41	3	12	29
48	0.023	0.09	< 2	17	18
49	0.034	0.21	< 2	11	29
50	0.097	0.53	< 2	3	239
51	0.031	0.01	< 2	3	38
52	0.031	0.06	< 2	7	8
53	0.101	0.11	2	2	314
54	0.069	0.1	3	6	21
55	0.059	< 0.01	< 2	12	30
56	0.046	< 0.01	< 2	7	19
57	0.025	0.03	2	16	10
58	0.028	0.04	< 2	16	14
59	0.058	< 0.01	3	18	12
60	0.051	0.03	< 2	18	14
61	0.069	0.09	< 2	11	17
62	0.063	0.23	3	17	16

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	1.29	< 20	20	< 2	< 10
42	0.27	< 20	1	< 2	< 10
43	0.27	< 20	8	2	< 10
44	0.28	< 20	< 1	< 2	< 10
45	0.29	< 20	4	< 2	< 10
46	0.28	< 20	3	< 2	< 10
47	0.52	< 20	2	< 2	< 10
48	0.3	< 20	3	< 2	< 10
49	0.35	< 20	12	< 2	< 10
50	0.44	< 20	8	< 2	< 10
51	0.19	< 20	2	< 2	< 10
52	0.24	< 20	3	< 2	< 10
53	0.45	< 20	6	< 2	< 10
54	0.23	< 20	4	< 2	< 10
55	0.29	< 20	1	< 2	< 10
56	0.19	< 20	2	< 2	< 10
57	0.22	< 20	2	< 2	< 10
58	0.36	< 20	7	< 2	< 10
59	0.28	< 20	5	< 2	< 10
60	0.24	< 20	3	< 2	< 10
61	0.28	< 20	5	< 2	< 10
62	0.39	< 20	4	< 2	< 10

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Analyte Symbol	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm
Detection Limit	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP
41	409	< 10	7	9
42	97	< 10	10	3
43	75	< 10	18	3
44	89	< 10	14	15
45	62	< 10	5	3
46	77	< 10	4	2
47	174	< 10	11	4
48	114	< 10	9	2
49	90	< 10	7	3
50	61	< 10	12	9
51	43	< 10	3	3
52	54	< 10	6	4
53	62	< 10	11	9
54	61	< 10	12	2
55	106	< 10	12	3
56	56	< 10	10	8
57	119	< 10	8	2
58	138	< 10	11	3
59	193	< 10	16	5
60	178	< 10	12	3
61	90	< 10	10	3
62	224	< 10	17	5