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Report of Prospecting Activities on the Fog Lake Claims

Prepared by Paul Gerlach [13592]

November 27 2020

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Attached: Maps= Location, Traverses, Sample Points.
Sample Analysis Report, Expense receipts.

Location:

The Fog Lake property is located in the Lower Auguasabon Lake Area just north of Strey Township approx. 15 km North West of Terrace Bay. The property consists of 4 mining cell units 546599,546600,546601,546602. The property is accessed from Terrace Bay hwy. 17 turning north onto Mill Road, turning east onto Diversion Road travelling north for approx. 20km the property is on the west side of the road 4km through the bush. The property can also be accessed by helicopter or snowmobile.

History: The area was relatively unexplored until the early 1980's, with the discovery of the Hemlo deposit 95km to the east, prospecting and speculation increased throughout the district. The Fog Lake area was staked and evaluated, in the MNDM archives there are several assessment files documenting exploration. Kennco Exploration Canada LTD did an airborne electromagnetic survey in 1971 outlining several anomalies in the area. Lazurus Resources LTD conducted geophysical mapping, geochemical soil and sampling in 1984. Lazurus returned in 1985 to continue with an electromagnetic VLF survey along with a magnetic/magnetometer survey, bedrock trenching, geological and geochemical survey along with prospecting. No drilling has been done in the area.

All activities performed in this report were completed by Paul Gerlach [13592]

Report of activities on the Fog Lake Claims

On April 8 2019 a trip was made to the newly acquired claims at Fog Lake. I parked snowmobile on Rhumly Lake east shore and headed east to small pond to look for outcrops. The woods are old growth mixed spruce, balsam, birch, alders. On the south of pond the land rises quickly with rocks and boulders up to approx. 20metres. The north side of the pond is a gentle slope up 4metres then heading down into a lake approx.150 metres away. Outcrops were sparse on south side as this area was shaded, the outcrop that I could see was that of a cliff that was unreachable due to the topography and deep snow. An outcrop on the north side of the pond contained dark grey fine grained volcanic tuff.

On April 15 a trip was made to the Fog Lake claims staying on Fog Lake north side as this area was melting and was down to vegetation on lake shore for about a metre and outcrops were snow free. An outcrop I noted was that of a fine/medium grained granite/rhyolite? intrusion with a shear and a phyllite extrusive flow abutting.

On April 17 a trip was made to the Fog Lake claims. I poked around the phyllite extrusive flow grabbed a few samples {A22 UTM 16U 0490758 5417572}, continued down shoreline lots of rocks and boulders along shore, outcrop found 5metres back of bush line was grey fine grained volcanic tuff. The land rises quickly with boulders and thick forest.

On May 2 2019 went to Thunder Bay to meet with Mark Puumala out of the area field office and the resident geologist for the area. We discussed the area and looked at a few rocks

that I brought along.

Trips to Fog Lake claims were started at camp located north shore of Big Bruin Lake { UTM 16U 0484741 5411878} approx. 10 km north of Schreiber by snowmobile.

On March 23 2020 a trip was made to the Fog Lake claims. I cleared away brush and thawed moss and dirt from an area approx. 30metres east of the area visited the previous season. I had uncovered the phyllite flow and noticed it was covering a medium grained light pink to white rhyolite/andesite? with muscovite flakes, looks like rock was contact heated due to colour/composition change, took sample. Removed snow around the area so it would thaw and I could uncover more.

On March 24 returned to the Fog Lake claims cleared away what had thawed, peeling back ground cover I uncovered a 3cm quartz vein in the rhyolite/andesite? Grabbed sample, went around Fog Lake then up to Rhumly Lake looking for outcrops. Removed more snow from the area {previous day} so it would thaw.

On March 26 at the Fog Lake claims, cleared area that had thawed to uncover another 2cm quartz vein. The 2 quartz veins uncovered are vertical at around 70-80 degrees, some pyrite was noted in them. Removed snow to thaw area.

On March 27 made a trip to Schreiber in the morning to meet wife that had brought supplies. At the Fog Lake claims not much had melted, went to the north east corner of Fog Lake and proceeded up the hill and walked along ridge westward then came down close to where I was uncovering bedrock. 2 samples were taken along ridge. These rocks were very fine gained-tuff, basalt? the southern of the two {27M20-1 UTM 16U 0490928 5417548} had quartz phenocrysts, the other{27M20-2 UTM 16U 0490934 5417654} was a little sericitic both non-foliated.

On March 30 went to Rhumly Lake north

shore half way down lake, walked on side of ridge up a ravine for 4-500metres, outcrop observed was blue- grey fine grained tuff, went back to Fog Lake. On the north west shore of Fog Lake went up the hill along edge of cliff then back down to lake approx. 300 meters south of snowmobile. 2 samples taken one high on ridge one lower closer to lake. The higher one { 30M20-1 UTM 16U 0490476 5418138} was a dark, fine- medium grain- andesite? The lower one{ 30M20-2 UTM 16U 0490469 5418050 } was a fine grain, tuff with quartz vein and vugs. Both rocks non-foliated. Proceeded across to north shore Fog, shovelled snow at the area, was getting into a finger of the extrusive flow that extended into the lake.

On March 31 went to the Fog Lake claims to the west shore and proceeded up the hill to look for outcrops. On the hill walked along ridge until I came to the cliff edge { medium grained diorite} and walked north along it and down until I came out on the lake approx. where I had come out walking south the day before. Went across lake to area I was digging and found the third quartz vein. Took sample.

On April 1 left camp for home.

On April 3 left home to go to Fog claims at a point where I had to cross a creek at the north end of Little Fog Lake the creek had opened up and I did not want to cross the snow bridge that was not looking to good. I went back to Ducell Lake to an area that I had explored earlier in March.

Associated Costs:

2019 Prospecting Labour 3 days @ 250/day= $750.00

2020 Prospecting Labour 6 days @ 300/day= $1800.00

Total Labour= $ 2550.00

Transportation to claims and return: 2019: April 8-17- 3 trips to claims. Truck 108km. Snowmobile 134km = 242km @ .50$/km=$ 121.00

2020: March 23-31 Trip to Schreiber 23rd return 31st 36km @ $.50= $18.00

snowmobile from camp to claims and return- 6 trips- 188km @$.50=$94.00

Total transportation=$ 233.00

Supplies taken from stores and replaced:

Food/water 9days @ 5/day = $45.00. GPS batteries 4/trip= 36 = $28.00
Propane for Heat/Cooking March 2020 $51.67.
Gasoline for Generator 6days—45 litres @ 1.08/ litre=$48.60
1 pair safety glasses $7.58.
Sample Analysis: Sample A22 =$ 47.95
Sample Analysis FOGQZ = $ 67.74
Grand Total Associated costs: $ 3079.54.

Traverse Key: Green= Traverse made March 27 2020
Blue= Traverse made March 30 2020
Orange= Traverse made March 30 2020
Yellow= Traverse made March 31 2020
Purple= Traverse made April 8 2019

Sample Key: Orange Dots are outcrops looked at.

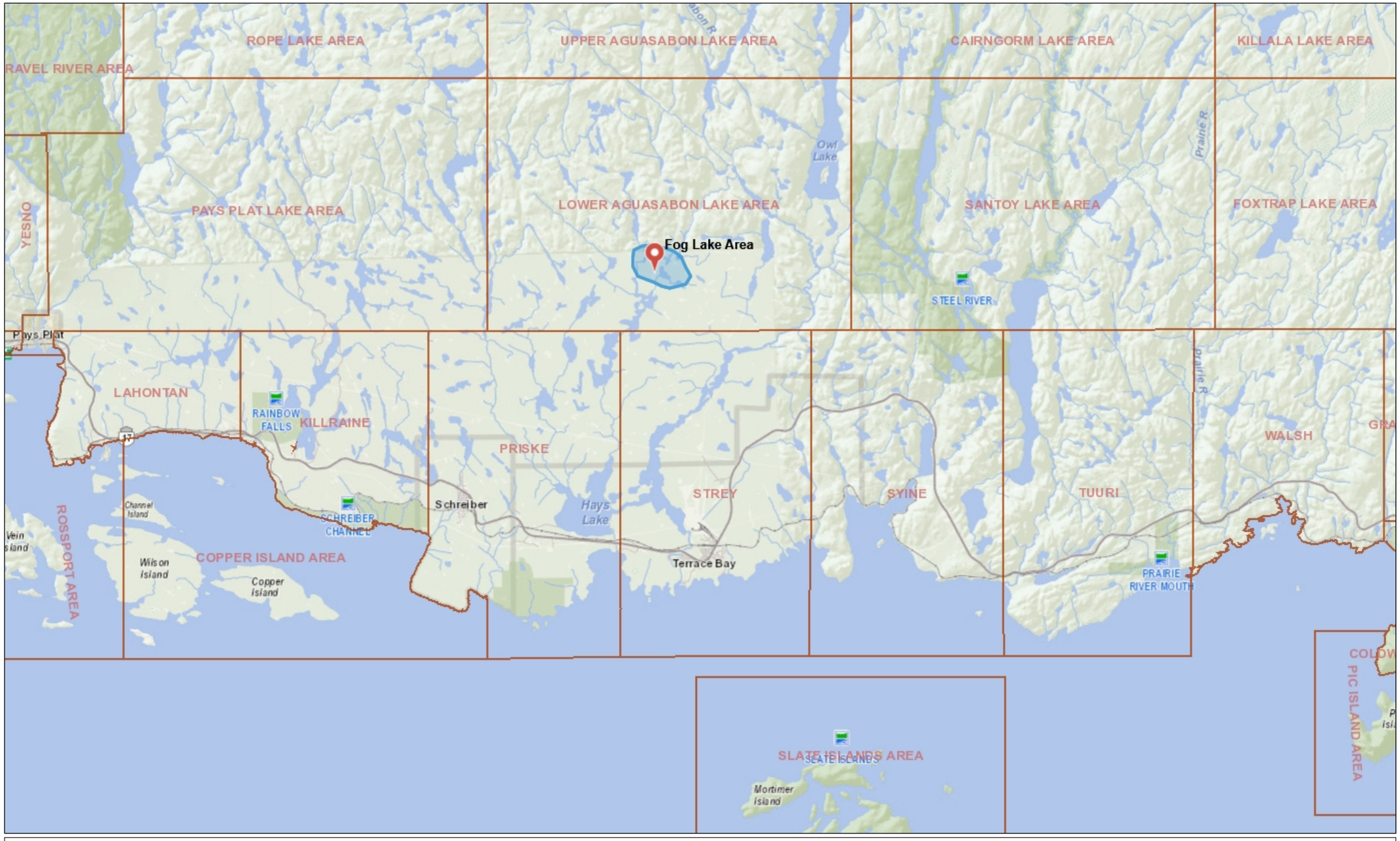
A22= sample taken April 17 2019 UTM 16 U 0490758 5417572
FOGQZ= sample taken March 23-24-26-31 2020 UTM 16 U 0490768 5417576
27M20-1= sample taken on March 27 2020 UTM 16 U 0490928 5417548
27M20-2= sample taken on March 27 2020 UTM 16 U 0490934 5417654
30M20-1= sample taken on March 30 2020 UTM 16 U 0490476 5418138
30M20-2= sample taken on March 30 2020 UTM 16 U 0490469 5418050

Ontario

MINISTRY OF ENERGY, NORTHERN DEVELOPMENT AND MINES
MLAS Map Viewer

MLAS Map

Notes:



Legend

Provincial Grid Cell
- Available
- Pending
- Unavailable

Mining Claim
- Mining Claim
- Boundary Claim

Alienation
- Withdrawal
- Notice

ENDM Administrative Boundaries
- ENDM Townships and Areas
- Geographic Lot Fabirc
- UTM Grid 1K
- UTM Grid 10K
- Mining Division
- Mineral Exploration and Development Region
- CLUPA Protected Area - Far North
- Resident Geologist District
- Federal Land Other
- Native Reserves
- AMIS Sites
- AMIS Features
- Drill Hole
- Mineral Occurrences

MLAS Mining History
- Withdrawal - History
- Notice - History
- Mining Claim - History
- Mining Land Tenure - History
- Legacy Claim

Provincial Grid
- Provincial Grid 250K
- Provincial Grid 50K
- Provincial Grid Group

Land Tenure
- Surface Rights
- Mining Rights
- Mining and Surface Rights
- Order-in-Council

Those wishing to register mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Energy, Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources and Forestry. The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Energy, Northern Development and Mines web site.

0 9.66 km

Projection: Web Mercator

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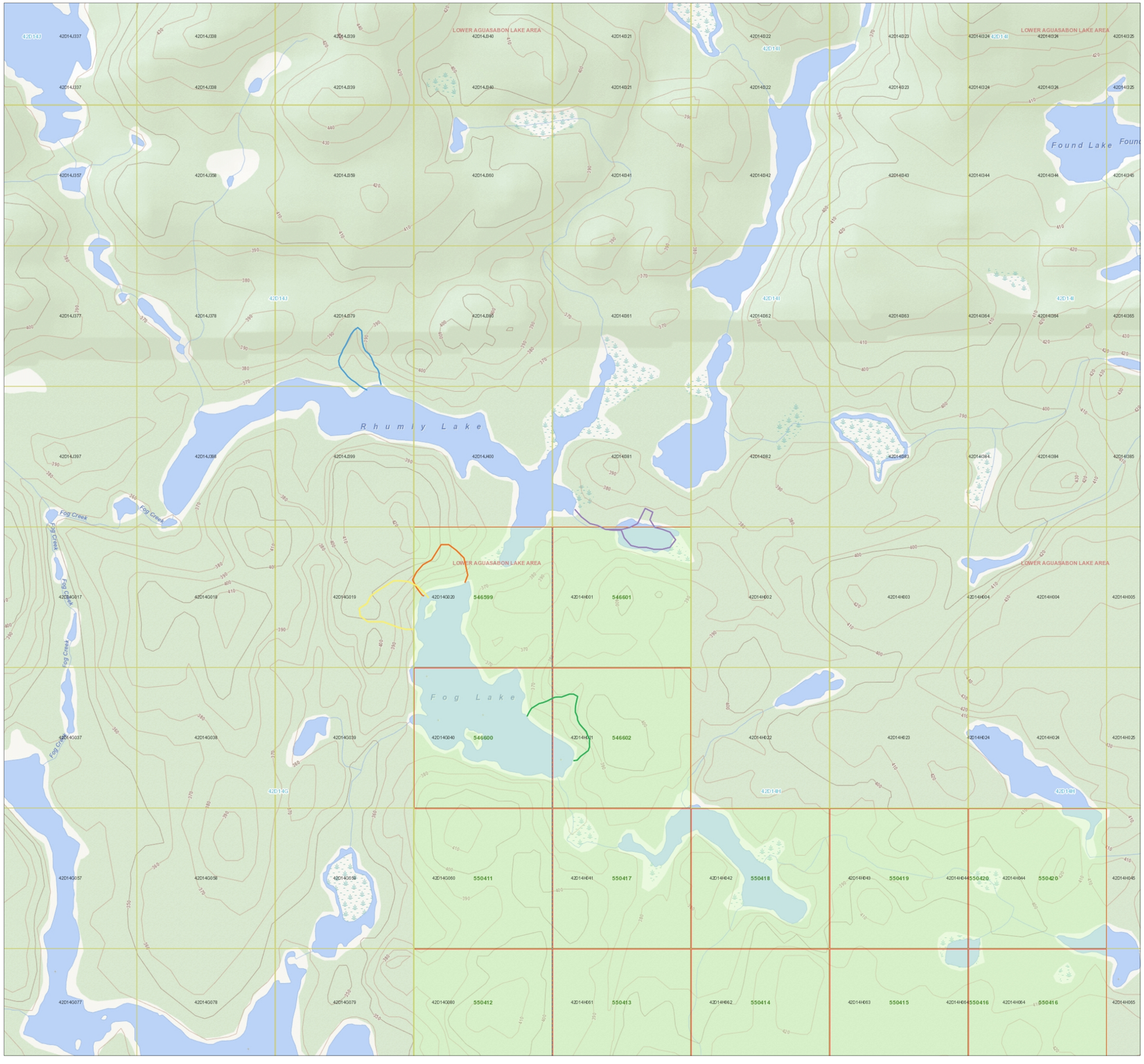
N

Traverses

Map Notes:

Enter map notes



Date / Time of Issue: Fri Nov 27, 21:47:30 EST 2020

Ontario

Ministry of Energy, Northern Development and Mines
Custom Map

Administrative Districts

Township
LOWER AGUASABON LAKE AREA

Mining Division
Thunder Bay

Land Registry
THUNDER BAY

MNRF District Office
Nipigon

Topographic

Legend

Mining Claim
Mining Claim
Boundary Claim
Legacy Claim
Alienation
Withdrawal
Notice
ENDM Administrative Boundaries
ENDM Townships and Areas
Geographic Lot Fabirc
Mining Division
Land Tenure
Surface Rights
Mining Rights
Mining and Surface Rights
Order-in-Council
Federal Land Other

Scale: 1:5,000

0 — 1.00 km

Map Datum: NAD 83
Projection: Web Mercator

N

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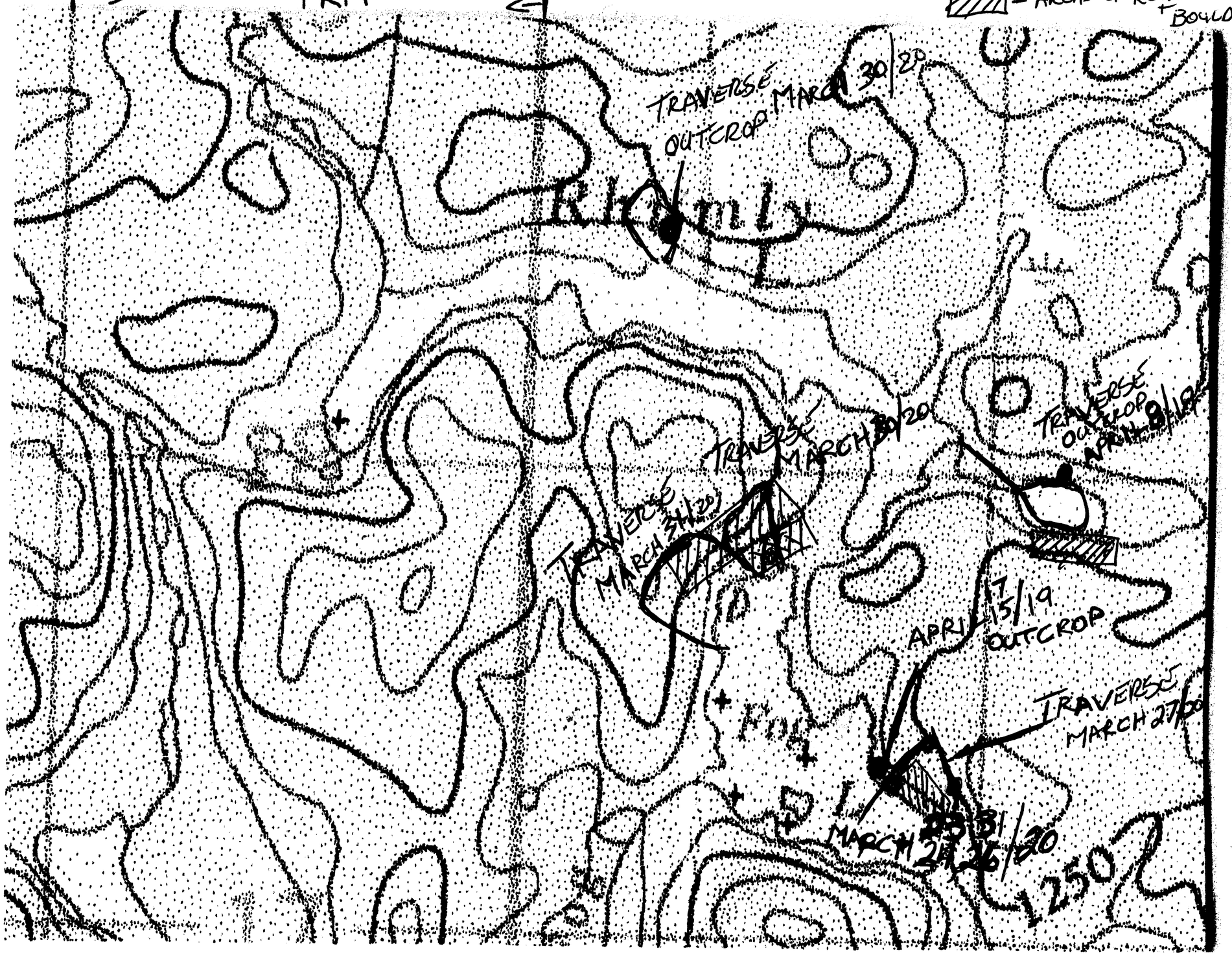
TRAVERSES + OUTCROPS

1 KM - 1000M

▨ - AREAS OF ROCKS + BOULDERS



Samples taken/ Outcrops checked

Map Notes:

Enter map notes

Date / Time of Issue: Sat Nov 28, 08:54:10 EST 2020

Ontario

Ministry of Energy, Northern Development and Mines
Custom Map

Administrative Districts

Township
LOWER AGUASABON LAKE AREA

Mining Division
Thunder Bay

Land Registry
THUNDER BAY

MNRF District Office
Nipigon

Topographic

Legend

Building as Symbol
Building to Scale
Runway
Heliport \ Hospital Heliport
Seaplane Base
Ferry Route
Trail Head \ Trail
Railway \ Train Station
Railway with Bridge
Railway with Tunnel
Road (Major ↠ Minor)
Winter Road
Road with Bridge
Road with Tunnel
Primary, Kings or 400 Series Highway
Secondary Highway
Tertiary Highway
District, County, Regional or Municipal Road
Toll Highway
One Way Road
Road with Permanent Blocked Passage
Road with Address Ranges
Hydro Line, Communication Line or Unknown Transmission Line
Natural Gas Pipeline, Water Pipeline or Unknown Pipeline
Spot Height
Index Contour
Contour
Wooded Area
Wetland
Waterbody
Waterbody Elevation
Watercourse
Falls
Rapids
Rapids \ Falls
Rapids
Rocks
Lock Gate
Dam \ Hydro Wall
Dam \ Hydro Wall
Provincial \ State Boundary
International Boundary
Upper Tier \ District Municipal Boundary
Lower Tier \ Single Tier Municipal Boundary
Lot Line
Indian Reserve
Provincial Park
National Park
Conservation Reserve
Military Lands

Mining Claim
Mining Claim
Boundary Claim
Legacy Claim
Alienation
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Notice
ENDM Administrative Boundaries
ENDM Townships and Areas
Geographic Lot Fabirc
Mining Division
Land Tenure
Surface Rights
Mining Rights
Mining and Surface Rights
Order-in-Council
Federal Land Other

Scale: 1:3,286

0 0.66 km

Map Datum: NAD 83
Projection: Web Mercator

N

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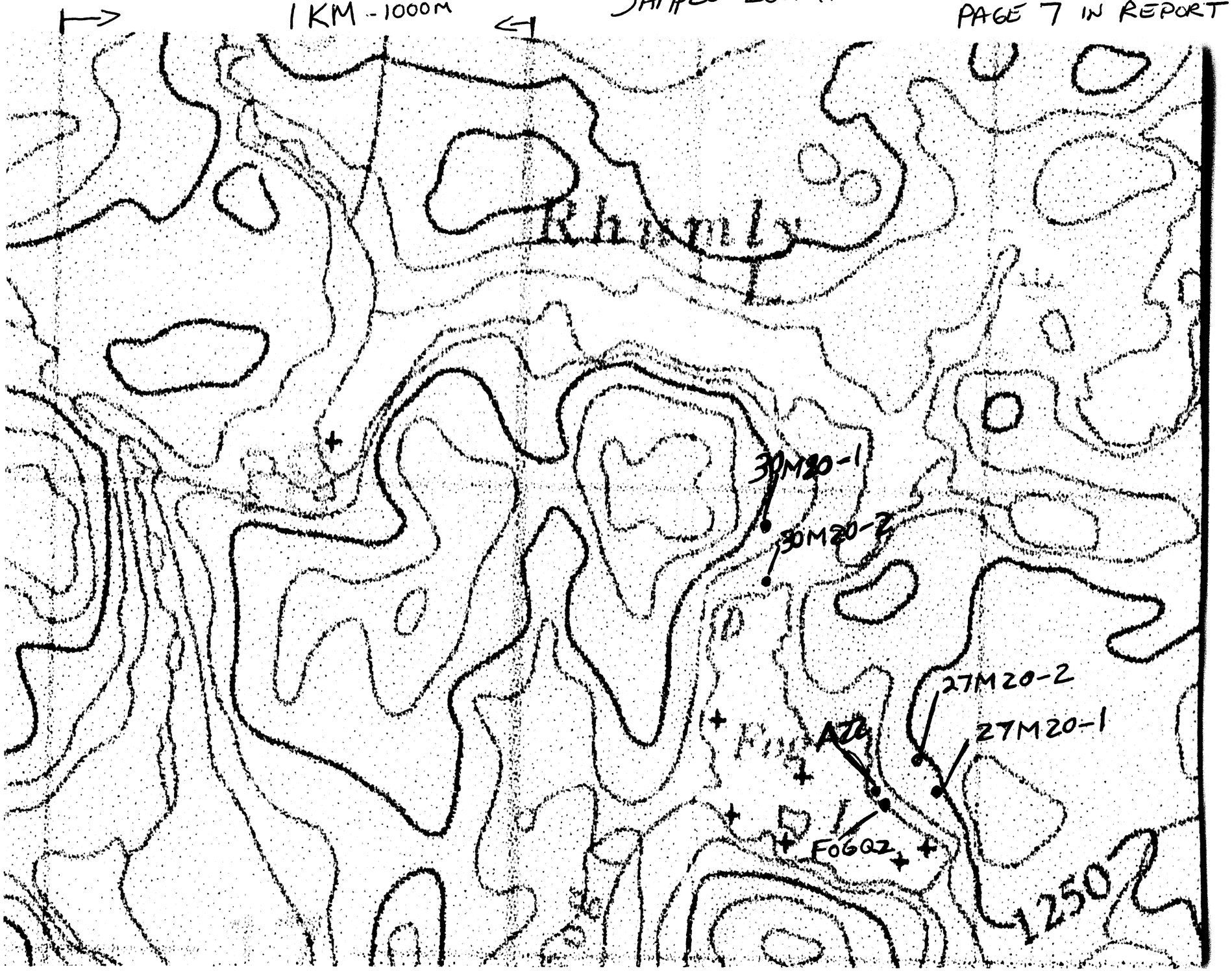
SAMPLE LOCATIONS SEE MAP KEY PAGE 7 IN REPORT



Quality Analysis ... *Innovative Technologies*

Report No.: **A20-04328**
Report Date: **11-May-20**
Date Submitted: **17-Apr-20**
Your Reference:

Rock On Exploration
4 Cavanaugh Crescent
THUNDER BAY ON
Canada

ATTN: Paul Gerlach

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-Exp	QOP PGE ICP-MS (Fire Assay-ICPMS)	2020-05-07 20:51:18

REPORT **A20-04328**

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Notes:

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

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

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THUNDER BAY ON
Canada

ATTN: Paul Gerlach

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2020-04-22 16:31:07

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	1	1	2	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
Method Code	FA-MS	FA-MS	FA-MS	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
A22	< 1	1	5	< 0.2	< 0.5	85	684	< 1	117	< 2	92	3.63	< 2	< 10	159	< 0.5	< 2	0.67	35	90	6.77	20	1
WPT50	< 1	< 1	4	< 0.2	< 0.5	43	479	1	35	< 2	62	2.31	< 2	< 10	29	< 0.5	< 2	2.05	37	34	6.28	10	1
WPT61	< 1	< 1	4	0.2	< 0.5	70	456	< 1	55	< 2	114	3.05	2	< 10	17	< 0.5	< 2	1.88	31	49	7.96	10	2
WPT62	< 1	< 1	17	0.3	< 0.5	112	1210	< 1	65	< 2	99	2.03	4	< 10	19	< 0.5	< 2	1.82	47	66	10.5	10	2

Analyte Symbol	K	La	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	ppm
Lower Limit	0.01	10	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	AR-ICP	AR-ICP
A22	0.88	12	4.75	0.071	0.097	0.34	3	12	14	0.43	< 20	2	< 2	< 10	165	< 10	8	8
WPT50	0.19	14	1.12	0.152	0.092	2.36	3	8	71	0.25	< 20	5	< 2	< 10	99	< 10	11	16
WPT61	0.88	24	1.91	0.256	0.254	1.60	2	15	52	0.28	< 20	< 1	< 2	< 10	140	< 10	20	18
WPT62	0.04	< 10	1.65	0.161	0.138	3.31	4	11	45	0.42	< 20	3	< 2	< 10	174	< 10	14	6

Analyte Symbol	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	1	1	2	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
Method Code	FA-MS	FA-MS	FA-MS	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-6 Meas				0.3	0.7	74	1100	1	24	99	138	6.50	250	< 10	712	0.9	< 2	0.13	11	89	5.71	20	1
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
GXR-6 Meas				0.3	0.7	72	1100	1	23	95	140	6.37	249	< 10	703	0.9	< 2	0.13	13	79	5.61	20	2
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
PK2 Meas	6210	4820	4980																				
PK2 Cert	5918	4749	4785																				
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2230	755	< 1	33	59	251	2.54	4		79	0.7	4	0.40	17	44	5.09	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4410	901	< 1	31	75	350	2.56	6		62	0.6	11	0.42	23	44	5.80	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4520	902	< 1	33	76	343	2.61	7		64	0.7	23	0.42	23	45	5.94	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
Oreas 96 (Aqua Regia) Meas				11.1		> 10000				82	419						< 2		42				
Oreas 96 (Aqua Regia) Cert				11.50		39100.00				100	448						27.9		49.2				
Oreas 96 (Aqua Regia) Meas				10.9		> 10000				82	422						< 2		50				
Oreas 96 (Aqua Regia) Cert				11.50		39100.00				100	448						27.9		49.2				
Oreas 621 (Aqua Regia) Meas				72.6	315	3620	564	12	25	> 5000	> 10000	1.57	79			0.6	< 2	1.75	29	33	3.32	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				68.4	305	3670	554	13	27	> 5000	> 10000	1.57	76			0.6	< 2	1.71	29	33	3.34	10	5
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1650	207	1920																				
CDN-PGMS-30 Cert	1660.000	223.000	1897.000																				
OREAS 45f (Aqua Regia) Meas						376	165	1	235	4	24	6.48			138	1.0	< 2	0.07	34	358	14.2	20	< 1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
WPT61 Orig	< 1	< 1	4																				
WPT61 Dup	< 1	< 1	4																				
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
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
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
Method Blank	< 1	< 1	< 2																				

Analyte Symbol	K	La	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	ppm
Lower Limit	0.01	10	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	AR-ICP	AR-ICP
GXR-6 Meas	1.06	< 10	0.41	0.069	0.035	0.01	3	21	28		< 20	< 1	< 2	< 10	168	< 10	5	7
GXR-6 Cert	1.87	13.9	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	1.05	< 10	0.40	0.068	0.035	0.01	3	22	29		< 20	< 1	< 2	< 10	178	< 10	4	8
GXR-6 Cert	1.87	13.9	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
PK2 Meas																		
PK2 Cert																		
OREAS 922 (AQUA REGIA) Meas	0.45	38	1.30	0.027	0.062	0.36	< 2	4	16		< 20		< 2	< 10	34	< 10	19	27
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.38	35	1.42		0.059	0.67	2	4	15		< 20		< 2	< 10	35	< 10	18	31
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.39	36	1.44		0.060	0.68	2	4	15		< 20		< 2	< 10	37	< 10	18	32
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
Oreas 96 (Aqua Regia) Meas						3.99	5											
Oreas 96 (Aqua Regia) Cert						4.38	4.53											
Oreas 96 (Aqua Regia) Meas						4.18	7											
Oreas 96 (Aqua Regia) Cert						4.38	4.53											
Oreas 621 (Aqua Regia) Meas	0.35	20	0.45	0.149	0.034	4.50	118	2	18		< 20		< 2	< 10	13	< 10	7	68
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.35	21	0.44	0.154	0.034	4.53	120	2	19		< 20		< 2	< 10	13	< 10	7	68
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	10	0.18	0.040	0.020	0.02		26	14	0.10	< 20		< 2	< 10	210		4	14
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
WPT61 Orig																		
WPT61 Dup																		
Method Blank	< 0.01	< 10	< 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	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-16280**
Report Date: **14-Jan-21**
Date Submitted: **17-Dec-20**
Your Reference:

Rock On Exploration
4 Cavanaugh Crescent
Terrace Bay ON
Canada

ATTN: Paul Gerlach

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2021-01-08 09:50:45

REPORT **A20-16280**

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.

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

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-16280**
Report Date: **14-Jan-21**
Date Submitted: **17-Dec-20**
Your Reference:

Rock On Exploration
4 Cavanaugh Crescent
Terrace Bay ON
Canada

ATTN: Paul Gerlach

CERTIFICATE OF ANALYSIS

4 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-Exp	QOP PGE ICP-MS (Fire Assay-ICPMS)	2021-01-12 22:45:58
UT-2-0.5g	QOP AquaGeo/QOP Ultratrace-1 (Aqua Regia ICPOES/ICPMS)	2021-01-08 19:39:02

REPORT **A20-16280**

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.

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

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	1	1	2	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
Method Code	FA-MS	FA-MS	FA-MS	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
WPT69	< 1	< 1	< 2	< 0.2	< 0.5	8	145	< 1	23	< 2	18	0.49	< 2	< 10	20	< 0.5	< 2	0.18	22	47	1.84	< 10	< 1
WPT83A	< 1	< 1	3	0.2	< 0.5	101	347	4	33	< 2	52	1.64	< 2	< 10	72	< 0.5	< 2	1.11	23	36	4.73	< 10	< 1
WPY89	< 1	< 1	< 2																				
FOGQZ	< 1	< 1	7																				

Analyte Symbol	K	La	Mg	Na	S	Sb	Sc	Sr	Th	Te	Tl	U	V	W	Y	Zr	Li	Be	B	Na	Mg	Al	P
Unit Symbol	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.01	10	0.01	0.001	0.01	2	1	1	20	1	2	10	1	10	1	1	0.1	0.1	1	0.001	0.01	0.01	0.001
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	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP
WPT69	0.04	< 10	0.37	0.033	0.14	< 2	2	9	< 20	2	< 2	< 10	26	< 10	2	2							0.019
WPT83A	0.37	< 10	1.17	0.156	0.68	3	9	20	< 20	< 1	< 2	< 10	100	< 10	10	4							0.100
WPY89																	2.7	0.2	3	0.021	0.28	0.21	0.003
FOGQZ																	2.1	0.2	2	0.043	0.11	0.21	0.014

Analyte Symbol	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Sc	Pr	Gd
Unit Symbol	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.01	0.01	1	1	0.01	1	0.01	0.1	0.1	0.2	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.1
Method Code	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
WPT69						0.10																	
WPT83A						0.21																	
WPY89	0.001	0.01	0.12	11	48	0.02	149	0.85	2.0	6.5	6.8	12.8	1.70	0.1	0.7	0.5	0.7	10.0	0.51	0.9	3.2	0.2	0.1
FOGQZ	0.154	0.06	0.04	6	38	0.03	70	1.28	3.9	3.2	8.2	12.8	0.99	< 0.1	0.9	0.8	4.0	7.1	1.38	15.9	0.7	0.9	0.4

Analyte Symbol	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Hf
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.02	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
WPT69																							
WPT83A																							
WPY89	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.90	0.006	< 0.01	< 0.02	0.22	0.03	< 0.02	0.09	4.3	1.1	3.17	0.78	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
FOGQZ	0.3	< 0.1	0.1	< 0.1	0.3	1.42	0.067	< 0.01	< 0.02	0.14	0.03	0.03	0.36	36.7	3.3	9.57	3.39	0.3	0.1	< 0.1	0.1	< 0.1	0.5

Analyte Symbol	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.05	0.1	0.001	0.5	0.02	0.1	0.02	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
WPT69										
WPT83A										
WPY89	< 0.05	0.1	< 0.001	5.6	< 0.02	0.3	0.03	< 0.1	< 0.1	50
FOGQZ	< 0.05	0.2	< 0.001	6.9	0.03	4.9	0.24	1.5	0.3	40

Analyte Symbol	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	1	1	2	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
Method Code	FA-MS	FA-MS	FA-MS	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-6 Meas				0.3	< 0.5	67	1050	< 1	22	96	122	6.66	194	< 10	847	0.9	< 2	0.15	13	79	5.32	20	< 1
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
GXR-6 Meas				0.3	< 0.5	67	1070	1	23	98	121	6.73	216	< 10	865	0.9	< 2	0.15	13	79	5.35	20	< 1
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
GXR-6 Meas				0.3	< 0.5	68	1060	< 1	23	99	125	6.72	204	< 10	859	0.9	< 2	0.15	13	79	5.36	20	< 1
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
PK2 Meas	6020	4900	4870																				
PK2 Cert	5918	4749	4785																				
PK2 Meas	5910	4940	4840																				
PK2 Cert	5918	4749	4785																				
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2260	774	< 1	35	59	252	2.80	6		79	0.7	3	0.39	19	47	5.09	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2280	785	< 1	37	62	258	2.85	3		82	0.7	8	0.39	19	48	5.17	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2350	778	< 1	34	64	257	2.79	8		77	0.7	16	0.38	19	46	5.07	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4350	874	< 1	32	83	321	2.79	6		63	0.6	13	0.38	21	42	5.76	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4410	884	< 1	33	85	330	2.84	5		64	0.7	14	0.39	21	43	5.83	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4540	917	< 1	34	87	340	2.96	6		59	0.7	15	0.40	23	44	6.01	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
Oreas 96 (Aqua Regia) Meas				10.3		> 10000				90	396						35		44				
Oreas 96 (Aqua Regia) Cert				11.50		39100.00				100	448						27.9		49.2				
Oreas 96 (Aqua Regia) Meas				10.5		> 10000				92	412						35		46				
Oreas 96 (Aqua Regia) Cert				11.50		39100.00				100	448						27.9		49.2				
OREAS 520 (Aqua Regia) Meas																							
OREAS 520 (Aqua Regia) Cert																							

Analyte Symbol	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	1	1	2	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
Method Code	FA-MS	FA-MS	FA-MS	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
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
Oreas 621 (Aqua Regia) Meas				65.3	275	3570	517	11	23	> 5000	> 10000	1.68	72			0.5	3	1.50	28	29	3.25	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				66.8	280	3610	523	11	21	> 5000	> 10000	1.71	72			0.6	2	1.52	28	29	3.30	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				69.1	291	3790	543	12	23	> 5000	> 10000	1.74	76			0.6	2	1.58	29	28	3.41	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
OREAS 45f (Aqua Regia) Meas						337	170	< 1	228	12	30	7.09			146	1.0	< 2	0.07	40	354	13.0	20	2
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 45f (Aqua Regia) Meas						334	167	< 1	229	12	26	7.04			145	1.0	< 2	0.07	39	347	13.0	20	2
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 45f (Aqua Regia) Meas						345	170	< 1	225	11	26	7.17			150	1.1	< 2	0.07	40	356	13.2	20	2
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas																							
OREAS 263 (Aqua Regia) Cert																							
WPT69 Orig	< 1	< 1	< 2																				
WPT69 Dup	< 1	< 1	2																				
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
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
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
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
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
Method Blank																							
Method Blank																							

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Li	Be	B	Na	Mg
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.1	0.1	1	0.001	0.01
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	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-6 Meas	1.12	10	0.37	0.078	0.032	0.01	4	24	33		< 20	< 1	< 2	< 10	149	< 10	6	6					
GXR-6 Cert	1.87	13.9	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	1.13	11	0.38	0.077	0.034	0.01	4	24	35		< 20	< 1	< 2	< 10	155	< 10	6	10					
GXR-6 Cert	1.87	13.9	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	1.12	11	0.37	0.078	0.033	0.01	4	24	35		< 20	< 1	< 2	< 10	154	< 10	6	8					
GXR-6 Cert	1.87	13.9	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					
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
OREAS 922 (AQUA REGIA) Meas	0.48	35	1.27	0.025	0.061	0.36	4	4	16		< 20		< 2	< 10	32	< 10	19	13					
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 922 (AQUA REGIA) Meas	0.49	36	1.30	0.025	0.063	0.38	4	4	16		< 20		< 2	< 10	33	< 10	20	15					
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 922 (AQUA REGIA) Meas	0.47	36	1.27	0.025	0.063	0.38	< 2	4	16		< 20		< 2	< 10	33	< 10	20	20					
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3					
OREAS 923 (AQUA REGIA) Meas	0.41	33	1.35		0.059	0.66	4	4	14		< 20		< 2	< 10	32	< 10	18	24	23.8	0.6			1.47
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5	23.4	0.61			1.43
OREAS 923 (AQUA REGIA) Meas	0.41	34	1.37		0.060	0.68	5	4	14		< 20		< 2	< 10	32	< 10	19	26					
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5					
OREAS 923 (AQUA REGIA) Meas	0.42	34	1.44		0.063	0.71	2	4	15		< 20		< 2	< 10	34	< 10	19	30					
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5					
Oreas 96 (Aqua Regia) Meas						3.77	7																
Oreas 96 (Aqua Regia) Cert						4.38	4.53																
Oreas 96 (Aqua Regia) Meas						4.05	6																
Oreas 96 (Aqua Regia) Cert						4.38	4.53																
OREAS 520 (Aqua Regia) Meas																			15.0	0.6		0.055	1.09
OREAS 520 (Aqua Regia) Cert																			16.6	0.540		0.0520	1.14

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Li	Be	B	Na	Mg
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.1	0.1	1	0.001	0.01
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	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
Oreas 621 (Aqua Regia) Meas	0.38	18	0.40	0.175	0.032	4.46	107	2	18		< 20		< 2	< 10	12	< 10	7	69	6.7	0.6		0.175	0.35
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0	8.17	0.530		0.160	0.436
Oreas 621 (Aqua Regia) Meas	0.38	19	0.41	0.178	0.034	4.49	108	2	18		< 20		< 2	< 10	12	< 10	7	71					
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0					
Oreas 621 (Aqua Regia) Meas	0.38	19	0.42	0.180	0.034	4.70	105	2	18		< 20		< 2	< 10	12	< 10	7	61					
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0					
OREAS 45f (Aqua Regia) Meas	0.11	11	0.17	0.040	0.020	0.02		31	16	0.10	< 20		< 2	< 10	185		6	12					
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0					
OREAS 45f (Aqua Regia) Meas	0.11	11	0.17	0.039	0.020	0.02		31	15	0.10	< 20		< 2	< 10	185		6	13					
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0					
OREAS 45f (Aqua Regia) Meas	0.11	12	0.17	0.040	0.021	0.02		32	16	0.10	< 20		< 2	< 10	192		6	14					
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0					
OREAS 263 (Aqua Regia) Meas																			19.0	1.1		0.078	0.62
OREAS 263 (Aqua Regia) Cert																			20.1	1.22		0.0790	0.593
WPT69 Orig																							
WPT69 Dup																							
Method Blank	< 0.01	< 10	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	< 10	< 0.01	0.005	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank																			< 0.1	0.3	2	0.007	< 0.01
Method Blank																							

Analyte Symbol	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Sc
Unit Symbol	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	0.01	1	1	0.01	1	0.01	0.1	0.1	0.2	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1
Method Code	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	2.90	0.061	0.660	0.38	0.41	30	42		890	6.19	21.8	33.6	4290	334	7.50		7.3	5.6	23.5	13.9	18.4	11.6	3.6
OREAS 923 (AQUA REGIA) Cert	2.80	0.061	0.684	0.322	0.326	30.6	39.4		850	5.91	22.2	32.7	4248	335	8.01		7.07	5.99	19.6	13.6	14.3	22.5	3.09
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
OREAS 520 (Aqua Regia) Meas	1.38	0.071	0.944	0.46	3.55	238	38	0.14	2290	16.2	190	70.8	2970	23.0	13.4	0.2	154	1.5	31.5	34.4	14.5	32.8	10.2
OREAS 520 (Aqua Regia) Cert	1.56	0.0740	1.03	0.506	3.84	247	37.4	0.135	2280	15.74	196	73.0	2960	20.7	13.7	0.250	152	1.73	31.5	36.0	14.3	28.0	11.8

Analyte Symbol	Al	P	S	K	Ca	V	Cr	Ti	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Sc
Unit Symbol	%	%	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	0.01	1	1	0.01	1	0.01	0.1	0.1	0.2	0.1	0.02	0.1	0.1	0.1	0.1	0.5	0.01	0.1	0.1
Method Code	AR-MS	AR-ICP	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 907 (Aqua Regia) Meas		0.025	0.062					0.02															
OREAS 907 (Aqua Regia) Cert		0.0240	0.0660					0.0170															
Oreas 621 (Aqua Regia) Meas	1.66	0.034	4.641	0.35	1.64	11	27		526	3.52	30.1	24.0	3810	> 5000	9.75		78.9	4.9		20.2	7.91	54.6	2.3
Oreas 621 (Aqua Regia) Cert	1.60	0.0335	4.50	0.333	1.65	10.9	31.3		520	3.43	27.9	25.8	3660	51700	9.29		75.0	5.64		18.9	6.87	55.0	2.20
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Cert																							
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 263 (Aqua Regia) Meas	1.66	0.042	0.117	0.38	0.97	24	53		485	3.48	28.8	72.9	95.5	119	3.54		29.0			17.0	11.9		3.4
OREAS 263 (Aqua Regia) Cert	1.29	0.0410	0.126	0.288	1.03	22.8	48.0		490	3.68	31.0	72.0	87.0	127	4.92		30.8			16.9	12.0		3.52
WPT69 Orig																							
WPT69 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 0.01	< 1	< 1	< 0.01	< 1	< 0.01	< 0.1	< 0.1	< 0.2	0.9	0.06	< 0.1	0.4	0.6	< 0.1	< 0.5	< 0.01	< 0.1	0.2
Method Blank		< 0.001	< 0.001					< 0.01															

Analyte Symbol	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm	Eu	Tb	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.02	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas	7.3	4.4						0.98	1.93	0.43	0.42	6.10	0.46		1.65	62.4	32.0	64.4	27.5	4.8		0.6	
OREAS 923 (AQUA REGIA) Cert	6.79	4.07						0.84	1.62	0.40	0.45	5.99	0.58		1.56	54	30.0	60	25.4	4.34		0.54	
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
Oreas 96 (Aqua Regia) Meas																							
Oreas 96 (Aqua Regia) Cert																							
OREAS 520 (Aqua Regia) Meas								64.2			0.12	3.51	2.07	0.34	0.58		70.5	74.3				0.5	1.3
OREAS 520 (Aqua Regia) Cert								62.0			0.110	3.42	1.97	0.33	0.570		83.0	79.0				0.500	1.36

Analyte Symbol	Pr	Gd	Dy	Ho	Er	Tm	Nb	Mo	Ag	Cd	In	Sn	Sb	Te	Cs	Ba	La	Ce	Nd	Sm	Eu	Tb	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.01	0.002	0.01	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.02	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
Oreas 621 (Aqua Regia) Meas								14.1	63.9	289	1.76	2.54	88.9		1.02		19.9	40.2				0.3	0.6
Oreas 621 (Aqua Regia) Cert								13.3	68.0	278	1.73	2.68	107		1.01		19.4	39.6				0.330	0.520
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Cert																							
Oreas 621 (Aqua Regia) Meas																							
Oreas 621 (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 45f (Aqua Regia) Meas																							
OREAS 45f (Aqua Regia) Cert																							
OREAS 263 (Aqua Regia) Meas		4.0	2.8	0.5	1.2			0.52	0.286	0.22	0.03		5.20	0.17		157				4.7	0.9	0.5	0.9
OREAS 263 (Aqua Regia) Cert		3.89	2.64	0.430	1.29			0.570	0.285	0.270	0.0290		7.37	0.210		175				4.41	0.850	0.500	0.990
WPT69 Orig																							
WPT69 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.04	< 0.002	< 0.01	< 0.02	< 0.05	0.04	< 0.02	< 0.02	2.3	< 0.5	< 0.01	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							

Analyte Symbol	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.1	0.02	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-6 Meas												
GXR-6 Cert												
GXR-6 Meas												
GXR-6 Cert												
GXR-6 Meas												
GXR-6 Cert												
PK2 Meas												
PK2 Cert												
PK2 Meas												
PK2 Cert												
OREAS 922 (AQUA REGIA) Meas												
OREAS 922 (AQUA REGIA) Cert												
OREAS 922 (AQUA REGIA) Meas												
OREAS 922 (AQUA REGIA) Cert												
OREAS 922 (AQUA REGIA) Meas												
OREAS 922 (AQUA REGIA) Cert												
OREAS 923 (AQUA REGIA) Meas		0.3		1.7			0.16	85.4	21.8	14.2	2.2	
OREAS 923 (AQUA REGIA) Cert		0.60		1.96			0.12	81	21.8	14.3	1.80	
OREAS 923 (AQUA REGIA) Meas												
OREAS 923 (AQUA REGIA) Cert												
OREAS 923 (AQUA REGIA) Meas												
OREAS 923 (AQUA REGIA) Cert												
Oreas 96 (Aqua Regia) Meas												
Oreas 96 (Aqua Regia) Cert												
Oreas 96 (Aqua Regia) Meas												
Oreas 96 (Aqua Regia) Cert												
OREAS 520 (Aqua Regia) Meas	0.2	0.9		29.7		207	0.09	5.8	3.11	7.2	13.9	
OREAS 520 (Aqua Regia) Cert	0.200	0.810		29.6		169	0.0900	5.22	2.90	8.03	14.9	

Analyte Symbol	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Bi	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.1	0.02	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 907 (Aqua Regia) Meas												
OREAS 907 (Aqua Regia) Cert												
Oreas 621 (Aqua Regia) Meas	< 0.1	1.4		0.9		1340	0.79	> 5000	4.26	5.6	1.7	3580
Oreas 621 (Aqua Regia) Cert	0.0780	1.43		1.00		1230	0.770	13600	3.85	5.91	1.63	3930
Oreas 621 (Aqua Regia) Meas												
Oreas 621 (Aqua Regia) Cert												
Oreas 621 (Aqua Regia) Meas												
Oreas 621 (Aqua Regia) Cert												
OREAS 45f (Aqua Regia) Meas												
OREAS 45f (Aqua Regia) Cert												
OREAS 45f (Aqua Regia) Meas												
OREAS 45f (Aqua Regia) Cert												
OREAS 45f (Aqua Regia) Meas												
OREAS 45f (Aqua Regia) Cert												
OREAS 263 (Aqua Regia) Meas							0.55	34.9	0.57	10.6	1.3	160
OREAS 263 (Aqua Regia) Cert							0.530	34.0	0.570	10.6	1.28	170
WPT69 Orig												
WPT69 Dup												
Method Blank												
Method Blank												
Method Blank												
Method Blank												
Method Blank												
Method Blank	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	4.5	< 0.02	< 0.1	< 0.02	< 0.1	< 0.1	40
Method Blank												