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**DIAMOND WILLOW AMETHYST MINE**

**TECHNICAL REPORT FOR PROSPECTING, MECHANICAL STRIPPING,  
PITTING & TRENCHING**

**ON THE DIAMOND WILLOW AMETHYST MINE**

**Leases 107783,107759,107793 & 107794**

**Claims 516038, 164662,139854,226529,255390,341190,234637, 254125  
214384,516037,516034,516035,516036,180626,118917,343750,234506,  
282482 & 291178**

**MAY 2 2020 TO NOV 14 2020**

**BY BRANDON LEROUX**

**REPORT COMPLETED BY FEBUARY 6 2021**



## **TECHNICAL REPORT**

### **MAY 2 2020 TO NOV 14 2020**

This report covers prospecting, mechanical stripping, pitting & trenching work carried out from May 2 to November 2020 at the Diamond Willow Amethyst Mine under our exploration permits PR-19-00038 & PR-19-000108. The leases and claims are all contiguous for each exploration permits. The ENDM informed us we needed to have 2 exploration permits for the area instead of one.

The purpose for these exploration permits like in the past was to explore the lands covered under our leases and claims to locate Amethyst outcrops for future extraction of the Mineral.

Location: Diamond Willow Amethyst Mine located in Pearl Ontario Canada.

Exploration Permit # PR-19-00038 effective dates 2019-07-11 to 2022-07-10

Diamond Willow 2019 #1

Property Descriptions Lease #s 107783,107759,107793 & 107794 Claim #s 516038, 164662,139854,226529,255390,341190,234637 & 254125

Exploration Permit # PR-19-00108 effective dates 2019-07-11 to 2022-07-10

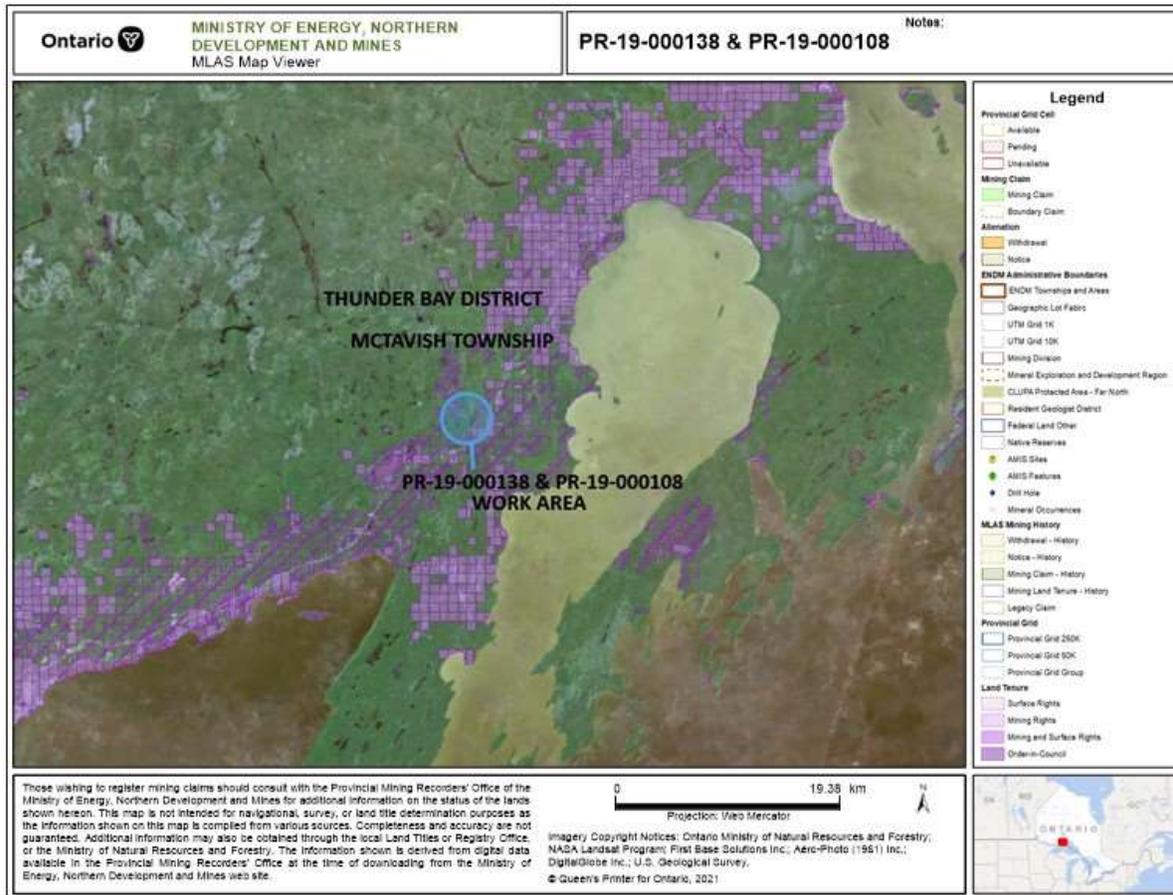
Diamond Willow 2019 #2

Property Descriptions claim #s 214384,516037,516034,516035,516036,180626,118917,343750,234506,282482 & 291178

All claims and leases for both exploration areas are contiguous.

## Property Access

Access to the property, Thunder Bay district follow 11/17 east from Thunder Bay Ontario for approximately 55 km to Pearl Ontario, turn north on rd 5 north and follow the signs for 3.5 kilometers til you reach Diamond Willow Amethyst Mine Parking lot.

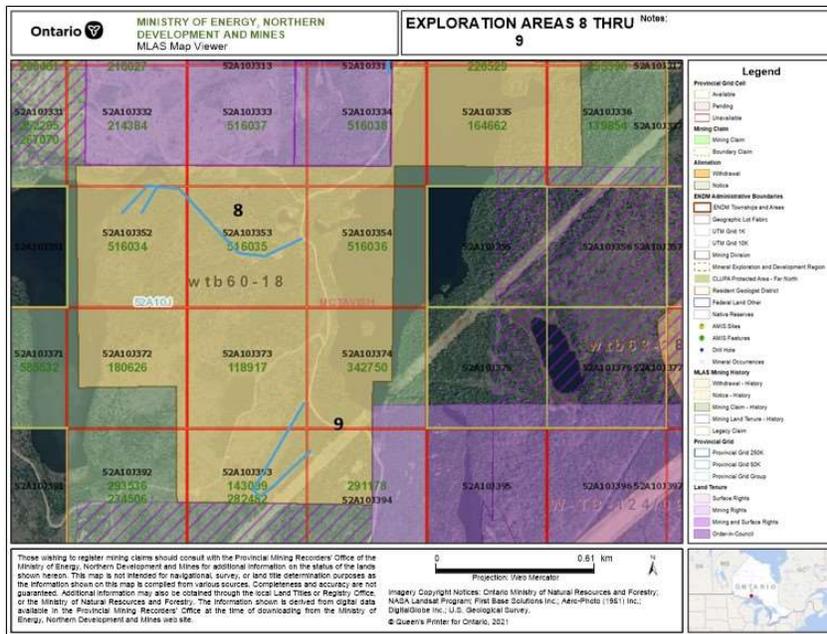
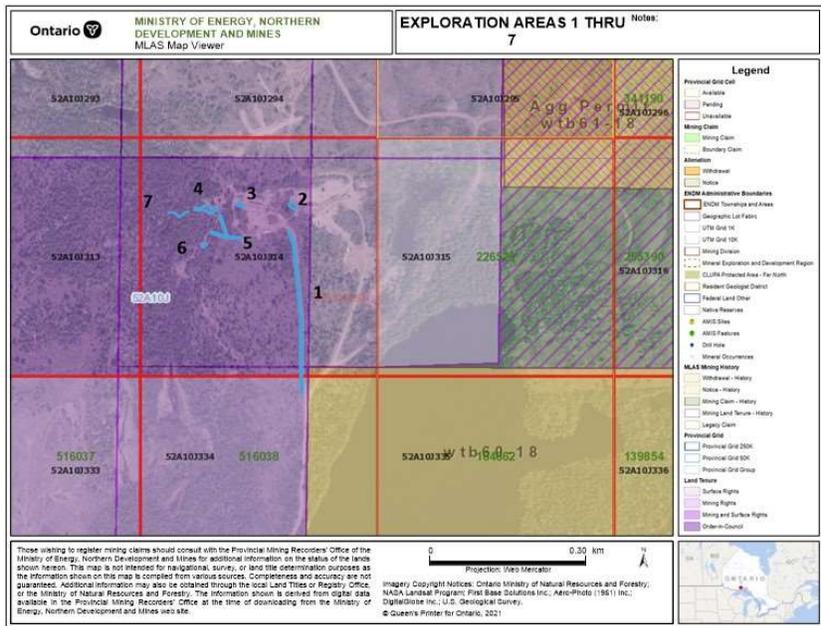


## FORWARD

We started the exploration season after reviewing past mining reports that we have been looking at for years that have been submitted by various prospectors/geologists that had interests in the area. The reports and maps from as early as 1971 have some of the best information when it comes to trying to find a starting point or re visiting reclaimed exploration areas that was never pursued or was pursued and abandoned after lost interest. Looking at those areas today you would not know that exploration has taken place at some point in the past nature has a good way of rehabilitating itself.

The most valuable information of the area was passed down by generations, my father-in-law Doug Noyes who is now passed on provided information that would lead to the initial expansion areas for the Diamond Willow Amethyst Mine. He had been dedicated to working the mine and earlier on performed a prospecting throughout the properties in this report.



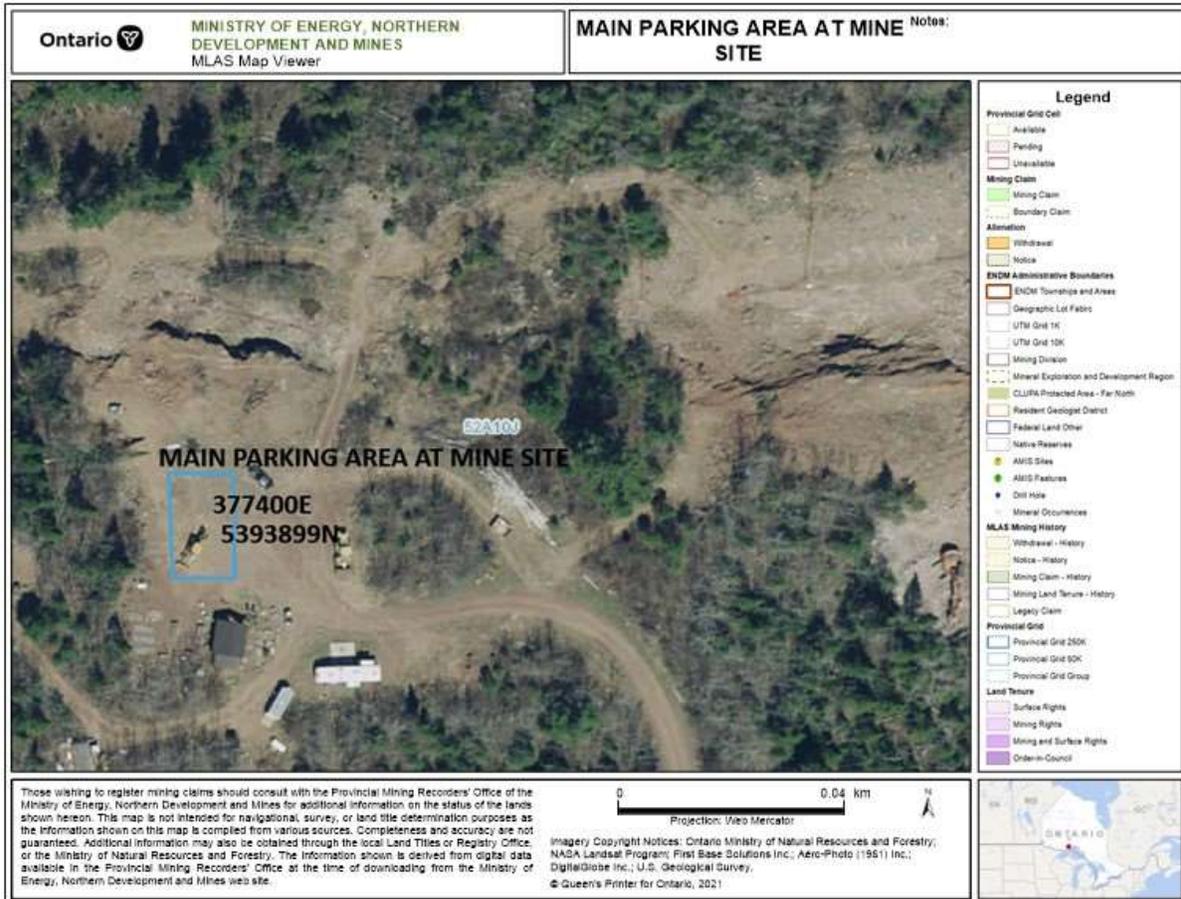


### Proposed rate description as past practice

Travel time \$0.50 per km. Traveling from residence in Pass Lake one-way 20km
Prospecting per person \$31.25 per hour or \$250.00 per day
In house John Deere 310sg backhoe \$100.00 per hour
In house Changlin loader \$100.00 per hour
In House 892 ELC excavator \$165.00 per hour
Blended rate for Drilling & blasting 1-1/2 holes 1' to 4' deep \$65.00 per hour
Rented compressor \$120.00 per day or 380.00 per week for
Inhouse Chainsaw \$15.00 per use - water pump \$15.00 per use
In house air drills/jack hammers & type 9 explosive magazine included with blended drilling rate
Truck and tank of water use per time when washing down \$30.00



Equipment used for the exploration work, everything used are Diamond Willow Amethyst Mine owned equipment except the air compressor seen which is rented.

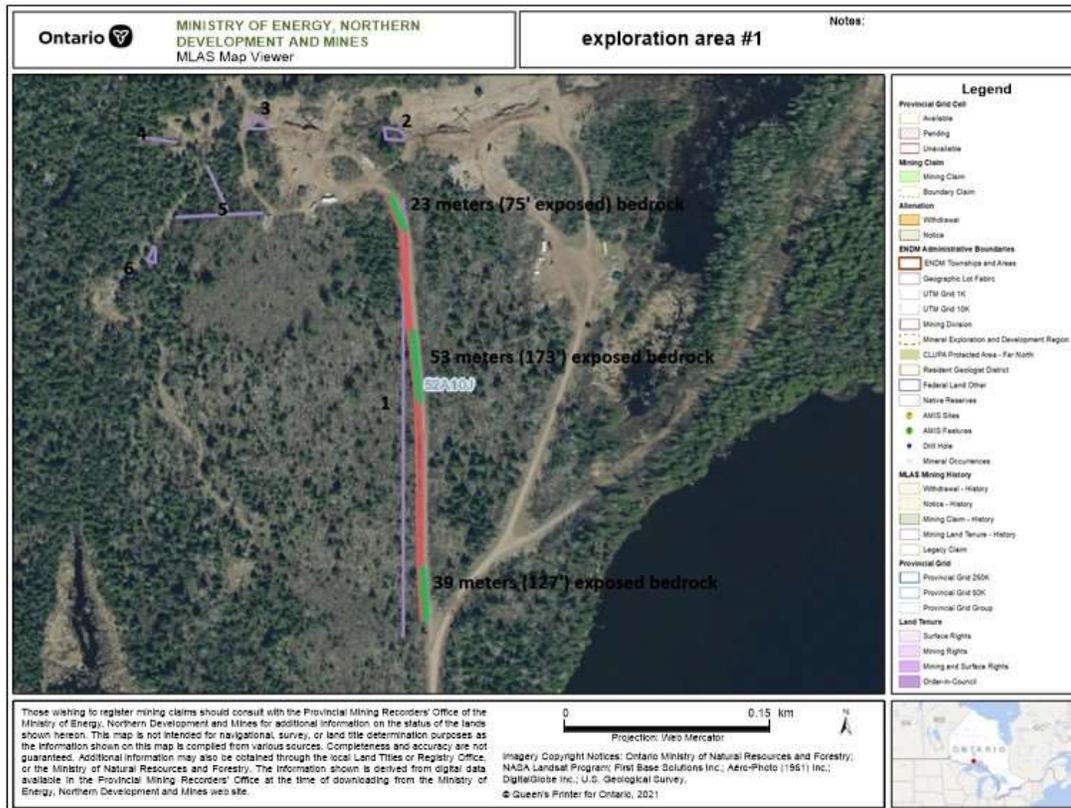


Map shown above is the Diamond Willow Amethyst Mine min parking area, the area outlined in blue is where we park the equipment when doing exploration work. To access area 1 thru 9 we mobilize from this location. We access to all the area that are in this report from existing mine roads and work areas.

To recap getting to this location it is in Pearl Ontario in McTavish town ship in the district of Thunder Bay. Leaving Thunder bay Pearl is located 55km east of Thunder Bay and 55 km west of Nipigon Ontario on Highway 11/17. Once in Pearl you take RD #5 North for 1km just past the railway track then turn left and follow the gravel road for 3 km. We have installed sufficient signage on this nameless access drive. In the Past it was called Diamond Willow Amethyst Mine road however the area has a history of renaming roads and lakes.

All the work was performed by Brandon Leroux and when 2 persons are named in this report that person in Carol Fayle, we both reside in the same residence 20km away.

## Exploration area #1



The map above shows in red where we stripped alongside the driveway 1053' long in red exposing bedrock mudstone in 3 locations in green. The bedrock was consistent in reddish to brown in colour representing sandstone also known in the area as mudstone. We started here on May 2 and worked on this exploration area in total for 16 hours approximately 2 days May 25 and May 26. The equipment used was an 1999 892 ELC excavator, the excavator is stationed at the mine year round, it was walked down from the main parking area and one job work was complete walked back up. We did approximately 2 hours of prospecting 2 hours on May 2 with a grub hoe prior to starting.

This work was performed on Lease 107759 Exploration permit pr-19-000138

-Purple general area -Red stripped area- Green exposed bedrock area

Exploration area #1 23 meters UTM approximately 377468e 5393875n thru 377377e 5393852n

Exploration area #1 53 meters UTM approximately 377483e 5393773n thru 377487e 5393720n

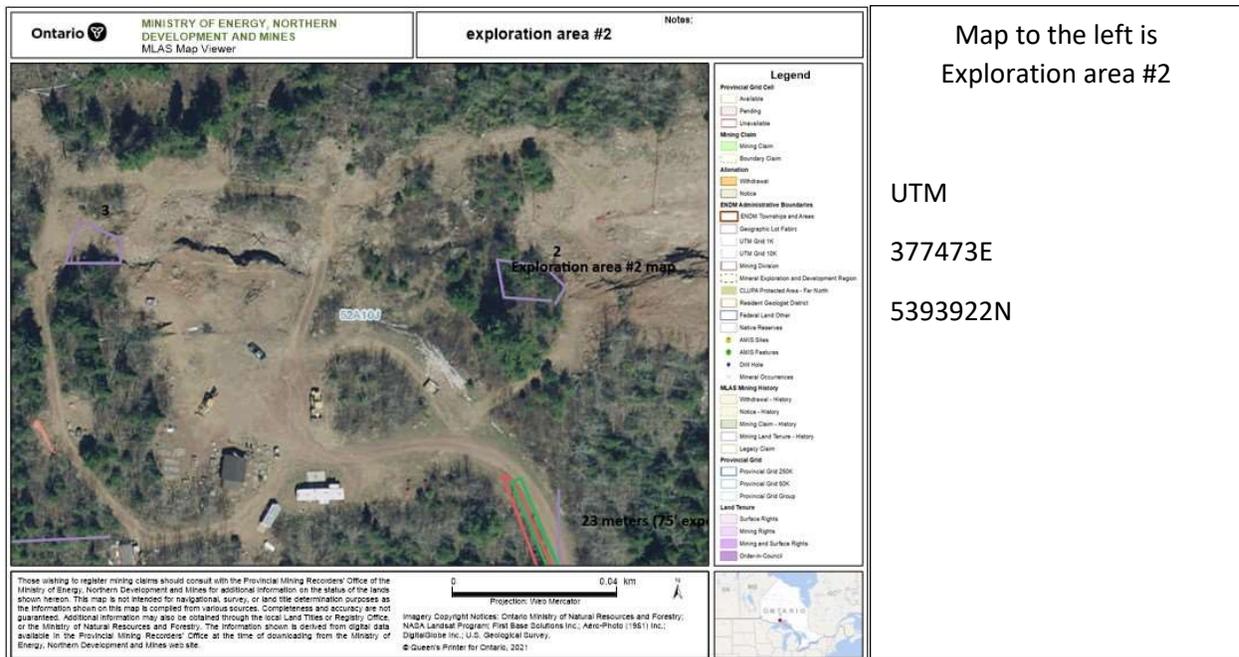
Exploration area #1 39 meters UTM approximately 377488e 5393596n thru 377491e 5393577n

<b>Prospecting grub hoe May 2 2020 1 person x 2 hour \$31.25 per hour</b>	<b>\$62.50</b>
<b>Mechanical Stripping 892 ELC 16-hour x \$165.00 per hour</b>	<b>\$2,640.00</b>
<b>Travel May 2 and May 3 2020= 2 trips x \$0.50 per km x 20km one way total=80km of travel x .50</b>	<b>\$40.00</b>
<b>Total for exploration area #1</b>	<b>\$2,742.50</b>

## Exploration Area #2

### Aug 15 thru Sept 2 2020

On Aug 15 I started mechanically stripping the area we prospected in our last report, the area was awkward to work however we spent approximately 8 hours with the John Deere 310sg stripping it down close to bedrock, on Aug 15 2020 On Aug 20<sup>th</sup> we spent an hour with a tank of water and 2" pump washing the area down, we have a 250 gallon tank, 2" water pump and used the truck and went down to the creek, filled up the tank and came back to hose down the area, this did good but didn't quite wash out the crevasses so we then rented an air compressor on Aug 26 and gave the area a good blow down for approximately 1 hours, the air forced out embedded roots that were in the crevasses which is a good sign that there are vugs within the newly exposed veins. Once the top was cleaned off to our satisfaction, we took pry bars, chisels and hammers and chiselled out what we could, this was performed by my wife and I for approximately 4 hours the host rock was sandstone known in the area as mudstone. August 30<sup>th</sup> I drilled 12 holes on the exposed area and blasted them, we found that the mineral in the veins we drusy and forming on both sides of the which made for some unique specimens. Equipment was mobilized by existing roads at the mine site.





Picture to the Left is for Area 2 exploration area, was washed down and blown down with drilling commenced not fully complete, there are 2 veins with crevasses running left to right on either side of the hose. Where you see the exposed bedrock had trees recently.



You can see the ground is irregular and hard to scrape down, even after washing and blowing their still remains loose rock, we did find an old drill steel that was stuck and bent from previous exploration. To the left of the air drill the area dips off where you can see the vein.



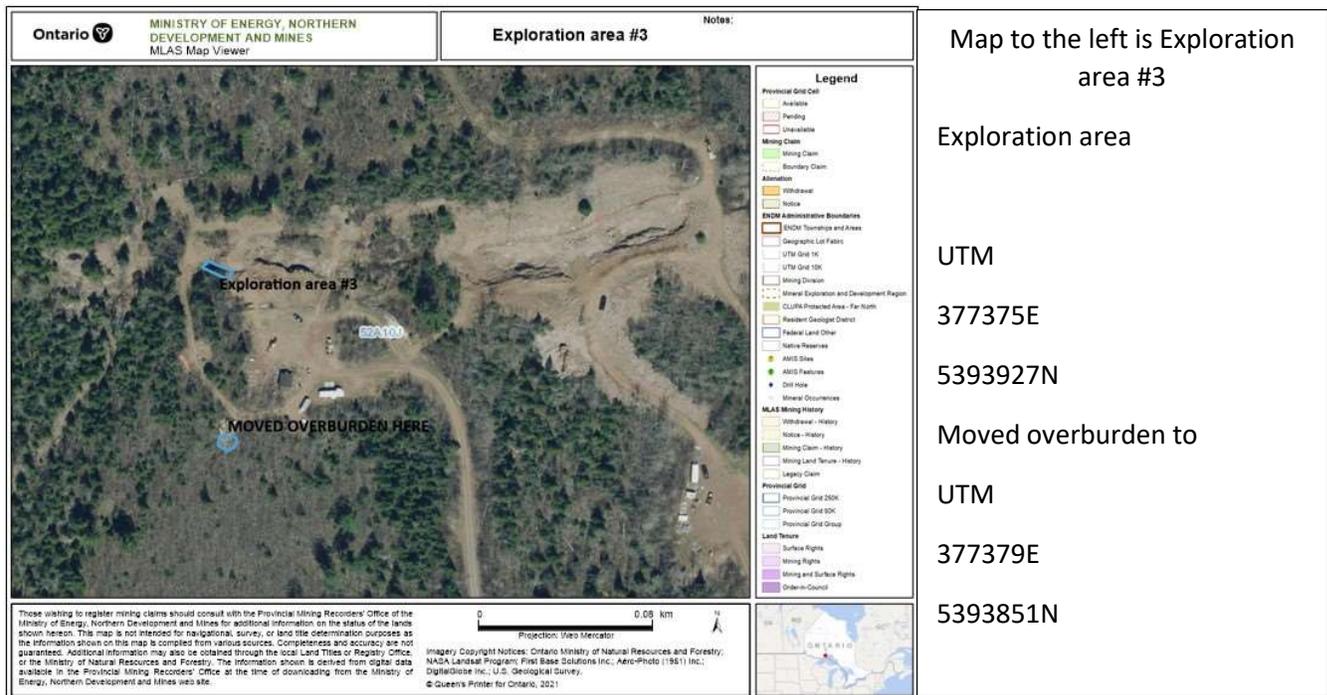
Pictures to the left are post blast specimens from area 2 post blast.



<b>Mechanical stripping-Washing using truck, tank \$30.00 and pump\$15.00 with 1 hour labour \$31.25</b>	<b>\$76.25</b>
<b>Mechanical stripping- Chiselling, hammer and prybar digging by hand 2 people x 4 hours each x \$31.25 per hour pre drilling</b>	<b>\$250.00</b>
<b>Mechanically stripping with Backhoe John deere 310 sg 8 hours x \$100.00</b>	<b>\$800.00</b>
<b>Trenching- drilled holes &amp; blasted blended rate at \$65.00 per hole 12 holes</b>	<b>\$780.00</b>
<b>Prospecting 2 people 4 hours post blast to collect samples 2 people x 4 hours each x \$31.25 per hour post blast</b>	<b>\$250.00</b>
<b>Mechanical stripping- 1 hour labour @ 31.25 + compressor rental \$219.00 per day</b>	<b>\$250.25</b>
<b>Travel for one person 4 trips at 20km each one way and one person 1 trip at 20km \$0.50</b>	<b>\$50.00</b>
<b>Total for Exploration area #2</b>	<b>\$2,456.50</b>

## Exploration area #3

**November 7 & 8<sup>th</sup> 2020** We started mechanically stripping a very awkward area that is adjacent to an existing pit, the soil and trees had to be removed, then soil dug out, scrapped down with excavator then blow down. We started digging from the top where we placed the soil overburden to the east of this area, we then moved the excavator to the bottom side build up an existing overburden pad, climbed up on the pad and started pulling the topsoil down, now with excess overburden we have to remove and relocate the extra topsoil approximately 235' away. The areas that were stripped we found we found 2 Quartz veins with Amethyst and signs of barite as seen in the pictures, the barite is unusually thick for what we are used to seeing but will make a great sample once blasted or dug out. The equipment was mobilized by existing roads thru the mine.



Map to the left is Exploration area #3

Exploration area

UTM

377375E

5393927N

Moved overburden to

UTM

377379E

5393851N



Pictures above are from the Mechanically stripped Exploration area #3

Picture to the left is the 892 excavators at the bottom of exploration area #3 in front of the overburden removed, picture taken from the top looking down.

Picture to the right is taken from the excavator looking up at exploration area #3 showing the overburden pile and irregularities in the bedrock surface which is mostly mudstone with son veining running thru.



Picture to the left is Exploration area #3 showing the exposed vein with barite, amethyst and quartz. The amethyst is difficult to see as the barite is embedded over the entire surface. I placed a sample on top that came loose from the excavator mechanical stripping.



Picture to the left is a close-up picture of the barite.

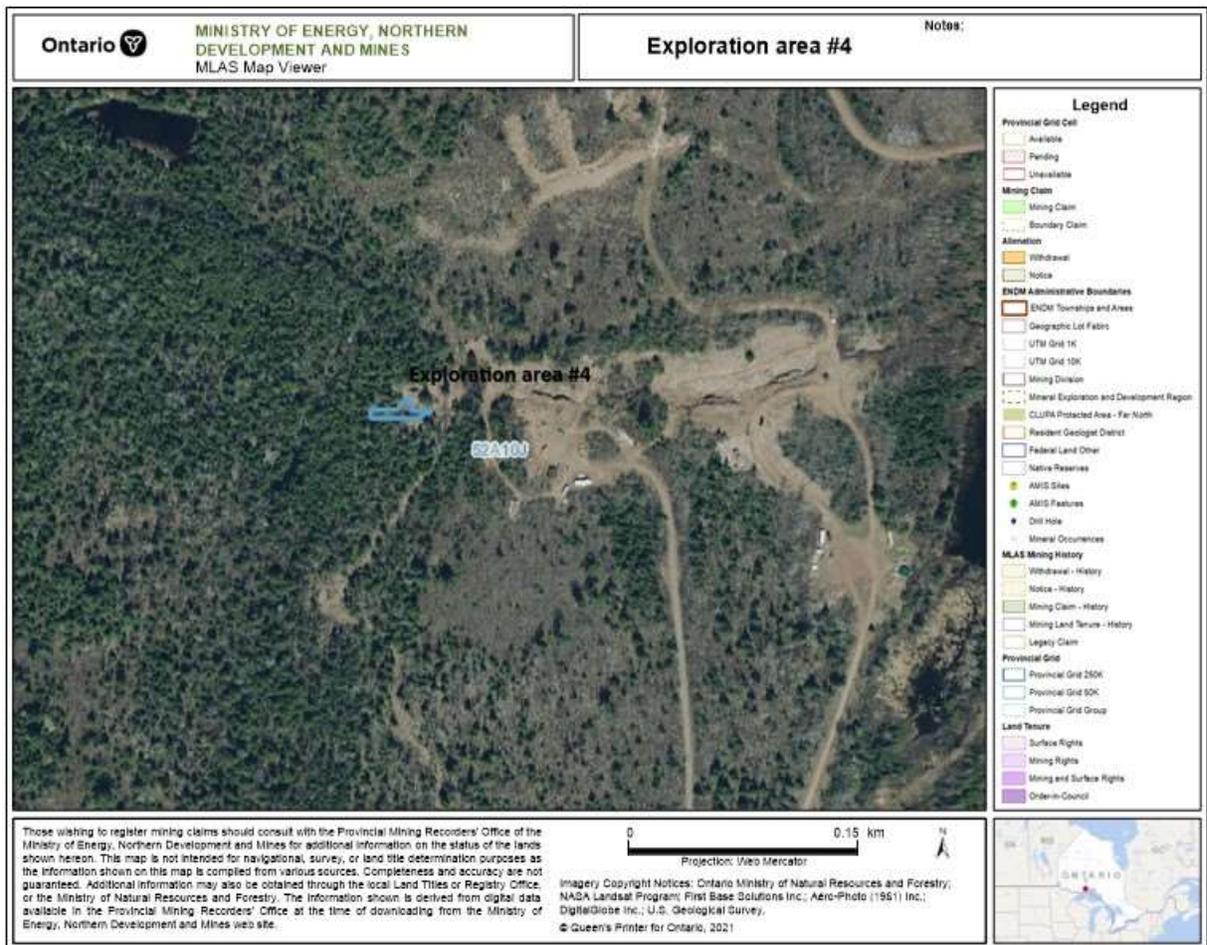


Picture to the Left is from the excess overburden that was removed from Area #3.

<b>Prospecting with grub hoe pre mechanical stripping 2 hours and 2 hours post stripping at \$31.25 per hour</b>	<b>\$125.00</b>
<b>Mechanical stripping with 892 excavator 8 hours, building pad and mechanical stripping \$165.00 per hour</b>	<b>\$1,320.00</b>
<b>Mechanical stripping Changling loader moving excess overburden 4 hours \$100.00 per hour</b>	<b>\$400.00</b>
<b>Mechanical Stripping Blowing down 2 hours with compressed air \$31.25 labour per hour plus compressor rental \$219.00</b>	<b>\$281.50</b>
<b>Travel time 2 days \$0.50 per km one way = 20km 2 trips in and 2 trips out.</b>	<b>\$40.00</b>
<b>Total for Exploration area #3</b>	<b>\$2,166.50</b>

## Exploration area #4

**OCT 30 2020** We started mechanically stripping Exploration area #4, approximately 115' x 10', we found that after stripping this area we found signs of Amethyst veining and future prospects for mining, the area is shown on the map accompanied by one picture on a area we discovered a natural cave in the middle of the photo. We used the excavator for mechanical stripping for about 4 hours in this area. We did prospection initially prior to the mechanical stripping with a grub hoe for about 2 hours.



Map above is Exploration area #3

UTM

377304E

5393921N



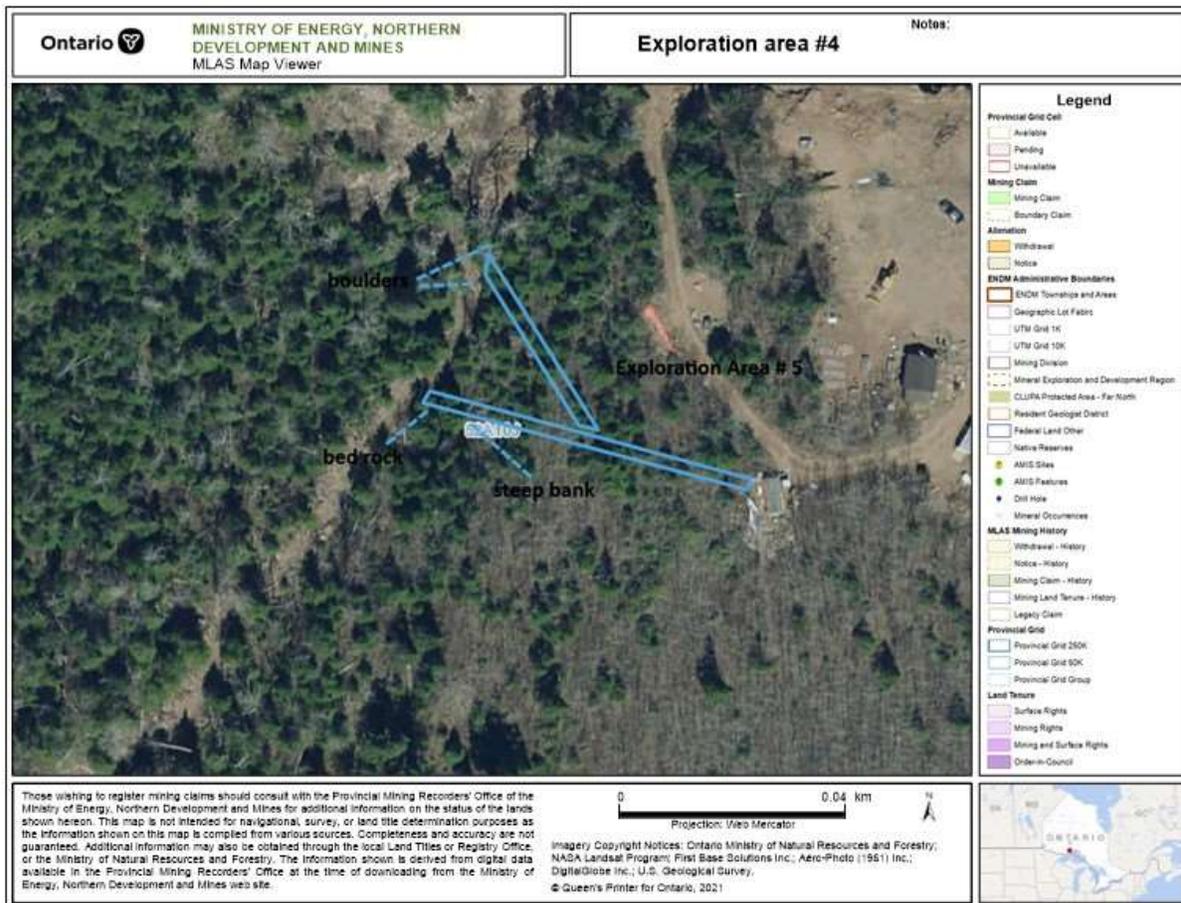
Exploration area #4

We stripped approximately 115' x 10' wide with the excavator with this area in the photo uncovering a cave center of photo, we notices lots of ¼" to ½" wide quartz veining on the rock wall above the cave and also on the bedrock we stripped. More blow down will be required in this area and the bedrock is very irregular.

<b>Mechanically stripping with the 892 ELC FOR 4 HOURS \$165.00 Per hour</b>	<b>\$600.00</b>
<b>Prospecting 2 hours at \$31.25 per hour</b>	<b>\$62.50</b>
<b>Travel for one day 20km one way \$.50 per km</b>	<b>\$20.00</b>
<b>Total for exploration area #4</b>	<b>\$682.50</b>

## Exploration area #5

**Oct 25 2020** We started to mechanically strip from the higher elevations To the east down to the lower elevations to determine where the bedrock is located we did manage to find bedrock adjacent to the magazine road at the bottom of the steep bank. From where we initially started from the east about half way down this we shifted to the North west stripping down a slanted hill. We dug down 4' from grade and did not find bed rock, we did find 2 to exceptionally large boulders that the excavator could not lift, the excavator managed to push these boulders down the hill. These boulders have conglomerate rocks with a natural cement holding them all together, we find these thru the area, and they are usually quite large and sometimes have trees growing out of them. More stripping is required in this area to complete locate bedrock, The initial work was done by the 892 ELC excavator and took 8 hours. In the map notes it should say Exploration area #5 not #4, on the actual map it says exploration area #5





Picture to the Left is Exploration area #5 which is not complete. At this point we believe bedrock is approximately 8' down.

UTM

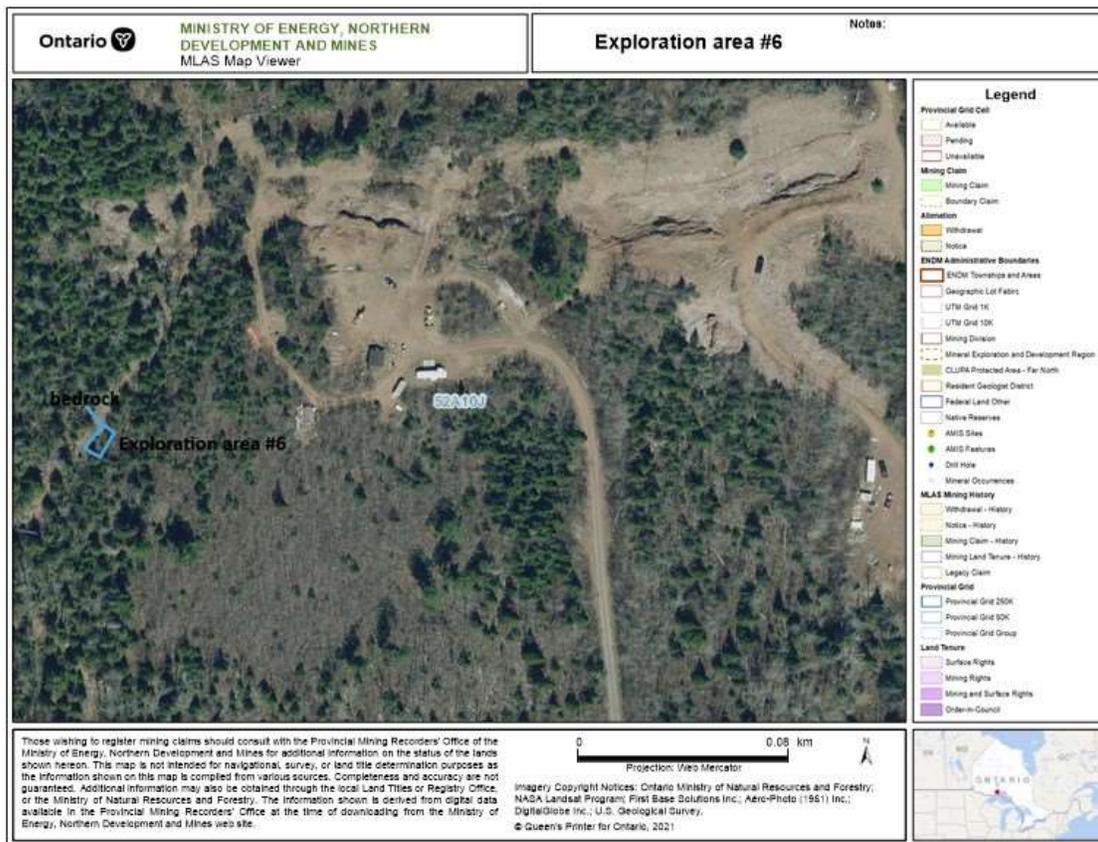
377347E

5393870N

TOTAL LENGTH OF Mechanical stripping is approximately 295' x 12'

<b>Mechanical stripping with 892 elc excavator 8 hours at \$165.00 per hour</b>	<b>\$1,325.00</b>
<b>Travel 20km</b>	<b>\$20.00</b>
<b>Total for Exploration area #5</b>	<b>\$1,345.00</b>

### Exploration Area #6





Picture to the left is the 892 excavators on the magazine road. Prior to starting to mechanically strip.



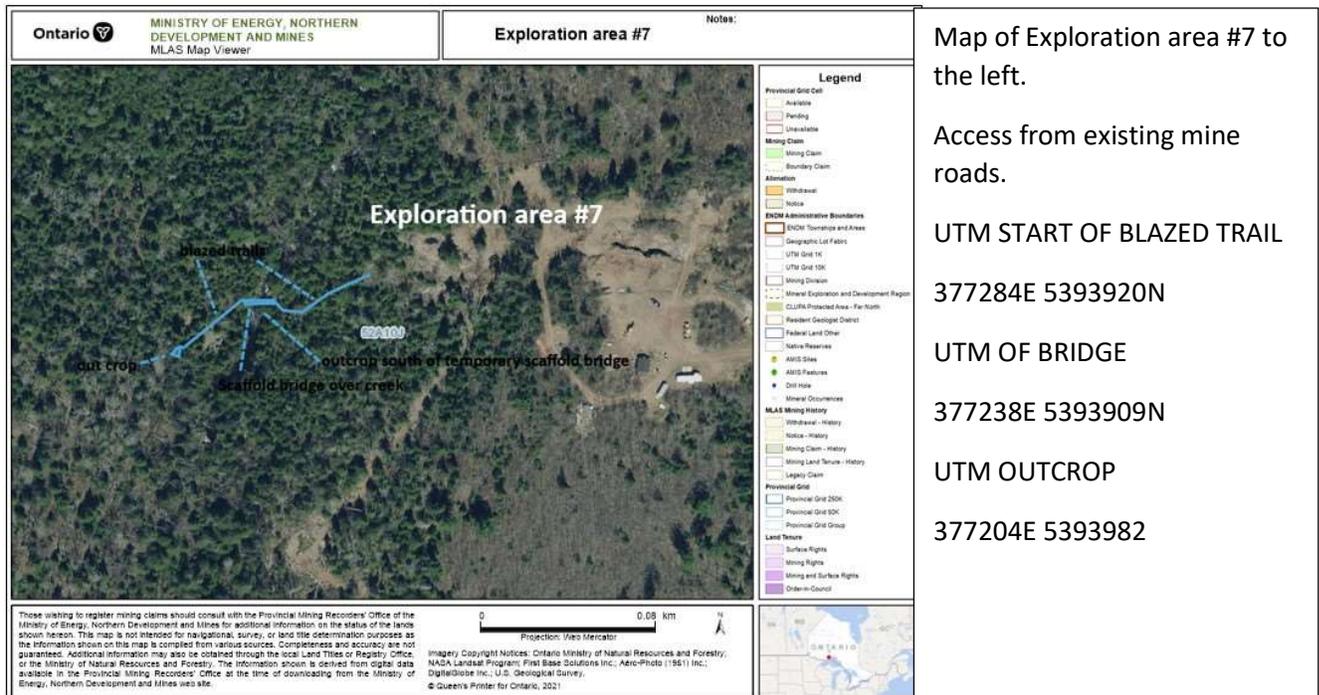
Picture to the left is the 892 ELC excavator digging into the bank, the exposed bedrock is possible a massive boulder and further digging will be required in 2021.

UTM  
377305  
5393870

<b>Mechanically stripping 4 hours \$165.00 per hour</b>	<b>\$660.00</b>
<b>Travel in and out 20km each way at \$0.50 per km</b>	<b>\$20.00</b>
<b>Total for Exploration area #6</b>	<b>\$680.00</b>

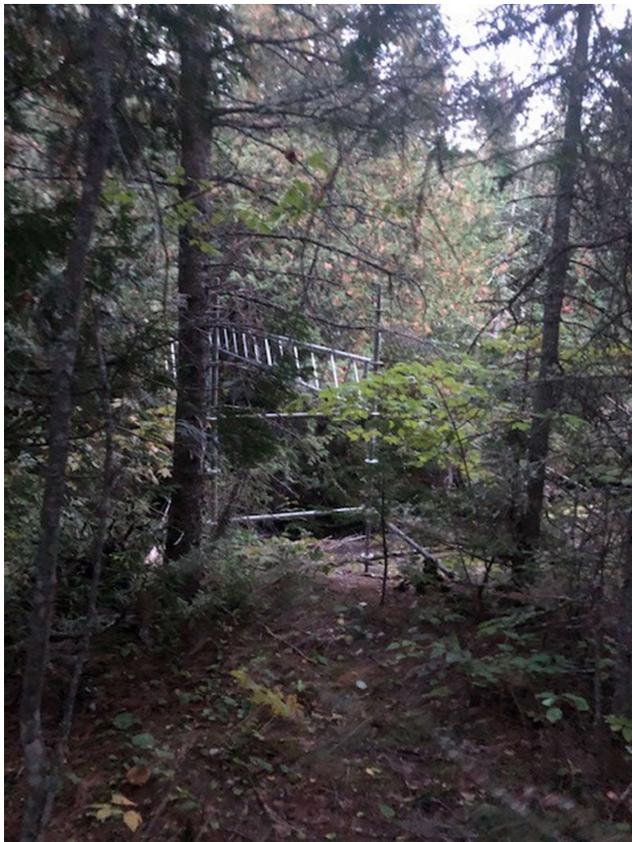
### Exploration area #7

**September 12<sup>th</sup> & 13<sup>th</sup> 2020** We started blazing a trail to access breezy creek and up to an outcrop we found, we noticed Amethyst in the creek bed in the direction veins were running from the mine and we decided to check out the other side of the creek up the other back and did some grub hoeing, we blazed our original trail from the mine to a desirable location on the creek where we installed a scaffold bridge for easier access to the prospecting areas. This bridge consists of 28' scaffold trusses with system and tube and clamp scaffold components, this bridge was approved by the Lakehead Region conservation authority. This will make crossing the creek safe and allow us to use our atv in the future for exploration activities.





Picture to the left is an out crop in the creek just about 40' south of scaffold bridge, the water was low so it made for good prospecting on the bedrock on the creek. Two of us looked in the creek for about an hour in areas where the water was low.



Picture from the other side of the creek of the scaffold bridge, the bridge is 5'2" wide has a 4:1 safety factor for point loading 1500 lbs in 3 locations. This bridge took 6 hours by 2 people to do initial set up complete.



Picture to the left is from south side of the scaffold bridge.

The blazing of the trails took two of us about 2 hours to do about 230'

130' on east side of the creek

100' on the west side of the creek.

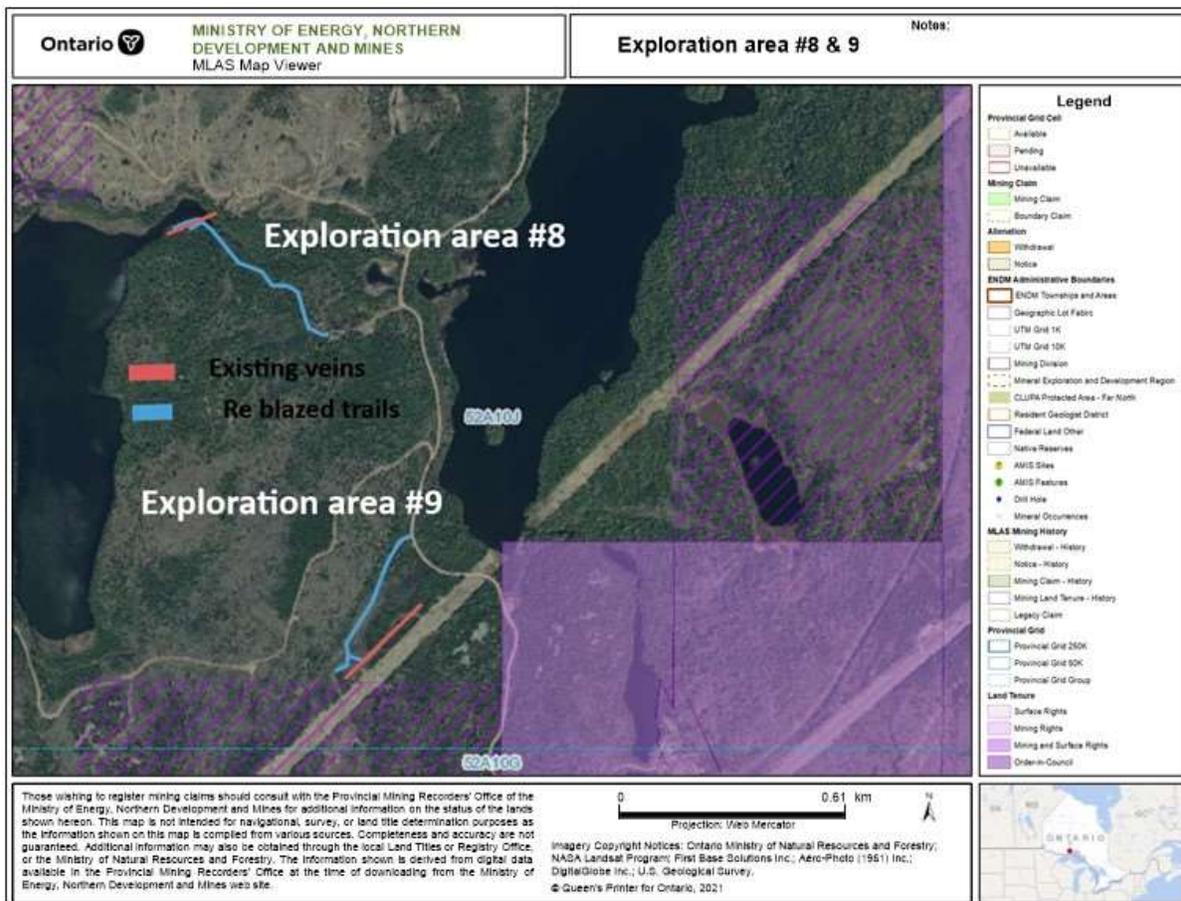


Picture to the left was from the west outcrop on the other side of the creek, we performed grub hoeing for about 2 hour x 2 people and will require further investigation

<b>Prospecting blazing trail with chainsaw \$15.00, plus 2 of us for 2 hours 31.25 per hour</b>	<b>\$140.00</b>
<b>Travel for 2 days 20km one way \$0.50 per km</b>	<b>\$40.00</b>
<b>Prospecting erecting scaffold bridge to join trails 2 of us 6hrs 31.25 per hour</b>	<b>\$375.00</b>
<b>Prospecting for both out crops 2 of us 3 hours at 31.25 per hours</b>	<b>\$187.50</b>
<b>Total for Exploration area #7</b>	<b>\$742.50</b>

## Exploration Area #8 & Exploration area #9

**June 29 & 30th 2020** The trails had grown in so bad and got to the point you could not walk up the both trails to exploration areas 8 & 9 to access the amethyst veining shown in red, a few years back ice had forced the branched down and had also grown in in the same direction they were forced down over the trails, we had accessed these areas in the past and both locations have out crops of good quality amethyst veins which we want to continue exploring in 2021. When re blazing these trails we did it over a 2 day period each trail was about 1400', I used a chainsaw for about 4 hours on each day and used the backhoe for about 4 hours on each day. The backhoe was to push the branches in the bush. There was also small trees started on the path so we smoothed out the trail with the backhoe as best we could. We can access the areas now with atvs and by walking.



Map above shows the areas where i Re blazed and shows the veins we area trying to access, to get to these main trails we mobilized from our main mine site parking lot and took the travelled road withing our claims, leases & aggregate permits.

<b>Prospecting using chainsaw nto reblaze trails \$15.00 per day for chainsaw over 2 days, 4 hours each day totaling 8 hours 31.25 per hours</b>	<b>\$280.00</b>
<b>Prospecting using backhoe to push branches back \$100.00 per hours for backhoe over 2 days 4 hours each day</b>	<b>\$800.00</b>
<b>Travelling one person 2 days 20km each way</b>	<b>\$40.00</b>
<b>Total for exploration area 8 &amp; 9</b>	<b>\$1,120.00</b>

### Recap of expenses

#### Proposed rate description as past practice

Travel time \$0.50 per km. Traveling from residence in Pass Lake one-way 20km
Prospecting per person \$31.25 per hour or \$250.00 per day
In house John Deere 310sg backhoe \$100.00 per hour
In house Changlin loader \$100.00 per hour
In House 892 ELC excavator \$165.00 per hour
Blended rate for Drilling & blasting 1-1/2 holes 1' to 4' deep \$65.00 per hour
Rented compressor \$120.00 per day or 380.00 per week for
Inhouse Chainsaw \$15.00 per use - water pump \$15.00 per use
In house air drills/jack hammers & type 9 explosive magazine included with blended drilling rate
Truck and tank of water use per time when washing down \$30.00

<b>Prospecting grub hoe May 2 2020 1 person x 2 hour \$31.25 per hour</b>	<b>\$62.50</b>
<b>Mechanical Stripping 892 ELC 16-hour x \$165.00 per hour</b>	<b>\$2,640.00</b>
<b>Travel May 2 and May 3 2020= 2 trips x \$0.50 per km x 20km one way total=80km of travel x .50</b>	<b>\$40.00</b>
<b>Total for exploration area #1</b>	<b>\$2,742.50</b>

<b>Mechanical stripping-Washing using truck, tank \$30.00 and pump\$15.00 with 1 hour labour \$31.25</b>	<b>\$76.25</b>
<b>Mechanical stripping- Chiselling, hammer and prybar digging by hand 2 people x 4 hours each x \$31.25 per hour pre drilling</b>	<b>\$250.00</b>
<b>Mechanically stripping with Backhoe John deere 310 sg 8 hours x \$100.00</b>	<b>\$800.00</b>
<b>Trenching- drilled holes &amp; blasted blended rate at \$65.00 per hole 12 holes</b>	<b>\$780.00</b>
<b>Prospecting 2 people 4 hours post blast to collect samples 2 people x 4 hours each x \$31.25 per hour post blast</b>	<b>\$250.00</b>
<b>Mechanical stripping- 1 hour labour @ 31.25 + compressor rental \$219.00 per day</b>	<b>\$250.25</b>
<b>Travel for one person 4 trips at 20km each one way and one person 1 trip at 20km \$0.50</b>	<b>\$50.00</b>
<b>Total for Exploration area #2</b>	<b>\$2,456.50</b>

<b>Prospecting with grub hoe pre mechanical stripping 2 hours and 2 hours post stripping at \$31.25 per hour</b>	<b>\$125.00</b>
<b>Mechanical stripping with 892 excavator 8 hours, building pad and mechanical stripping \$165.00 per hour</b>	<b>\$1,320.00</b>
<b>Mechanical stripping Changling loader moving excess overburden 4 hours \$100.00 per hour</b>	<b>\$400.00</b>
<b>Mechanical Stripping Blowing down 2 hours with compressed air \$31.25 labour per hour plus compressor rental \$219.00</b>	<b>\$281.50</b>
<b>Travel time 2 days \$0.50 per km one way = 20km 2 trips in and 2 trips out.</b>	<b>\$40.00</b>
<b>Total for Exploration area #3</b>	<b>\$2,166.50</b>

<b>Mechanically stripping with the 892 ELC FOR 4 HOURS \$165.00 Per hour</b>	<b>\$600.00</b>
<b>Prospecting 2 hours at \$31.25 per hour</b>	<b>\$62.50</b>
<b>Travel for one day 20km one way \$.50 per km</b>	<b>\$20.00</b>
<b>Total for exploration area #4</b>	<b>\$682.50</b>

<b>Mechanical stripping with 892 elc excavator 8 hours at \$165.00 per hour</b>	<b>\$1,325.00</b>
<b>Travel 20km</b>	<b>\$20.00</b>
<b>Total for Exploration area #5</b>	<b>\$1,345.00</b>

<b>Mechanically stripping 4 hours \$165.00 per hous</b>	<b>\$660.00</b>
<b>Travel in and out 20km each way at \$0.50 per km</b>	<b>\$20.00</b>
<b>Total for Exploration area #6</b>	<b>\$680.00</b>

<b>Prospecting blazing trail with chainsaw \$15.00, plus 2 of us for 2 hours 31.25 per hour</b>	<b>\$140.00</b>
<b>Travel for 2 days 20km one way \$0.50 per km</b>	<b>\$40.00</b>
<b>Prospecting erecting scaffold bridge to join trails 2 of us 6hrs 31.25 per hour</b>	<b>\$375.00</b>
<b>Prospecting for both out crops 2 of us 3 hours at 31.25 per hours</b>	<b>\$187.50</b>
<b>Total for Exploration area #7</b>	<b>\$742.50</b>

<b>Prospecting using chainsaw nto reblaze trails \$15.00 per day for chainsaw over 2 days, 4 hours each day totaling 8 hours 31.25 per hours</b>	<b>\$280.00</b>
<b>Prospecting using backhoe to push branches back \$100.00 per hours for backhoe over 2 days 4 hours each day</b>	<b>\$800.00</b>
<b>Travelling one person 2 days 20km each way</b>	<b>\$40.00</b>
<b>Total for exploration area 8 &amp; 9</b>	<b>\$1,120.00</b>

<b>Grand total areas 1 thru 9</b>	<b>\$11,935.50</b>
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<b>Mechanical stripping</b>	<b>\$8,603.00</b>
<b>Trenching</b>	<b>\$780.00</b>
<b>prospecting</b>	<b>\$2,282.50</b>
<b>Traveling</b>	<b>\$270.00</b>
<b>Total</b>	<b>\$11,935.50</b>

**Receipts**

Scanned Receipts below

The second receipt for the compressor is for the same amount as the first Compressor receipt as the rental periods are for the same time duration.

Brandon Leroux prepared this technical report for Diamond Willow Amethyst Mine. My wife Carol (Noyes) Fayle and I are owners of the mine and have been involved with the Amethyst Industry for decades.

The Mine is active from April to November and is open to the public from Mid May til Mid October. To find out more information about our Mine visit the website [www.diamondwillowamethyts.com](http://www.diamondwillowamethyts.com) The gallery section has numerous specimens of Amethyst mined from our site, we do not import Amethyst to the mine site for re sale or any other reason. The Amethyst sold at Diamond Willow Amethyst Mine is produced right on site. If you visit you will be able to see where the Amethyst is produced however you will not be able enter the pits as per Government Regulations and Diamond Willow Amethyst Mine Policy.

Brandon Leroux