



Exploration Permit/Permis d'exploration

Number/Numero:

PR-20-000069

This permit is issued under the authority of section 78.3 of the *Mining Act* and the Exploration Plans and Exploration Permits Regulation (O. Reg. 308/12). It is subject to the provisions of the Act and regulation as well as the terms and conditions included in this permit.

Ce permis est émis conformément aux dispositions de section 78.3 de la *Loi sur les mines* et des règlements et est sujet aux restrictions et dispositions de ce lois et règlements ainsi qu'aux conditions ci-énoncées.

Note: The issuance of this permit does not relieve the applicant from the responsibility of acquiring any other agency, board, government, etc. approval as may be required nor does it relieve the permittee from the requirements of any other legislation or guarantee access to the land.

Remarque : La délivrance de ce permis n'exempte pas le demandeur de l'obligation d'obtenir l'autorisation de tout autre organisme, commission, gouvernement, etc. qui pourrait être exigée, n'exempte pas le titulaire des dispositions de toute autre loi et ne garantit pas l'accès à la terre.

Project Details/ Détails sur le projet

Project Name/ Titre du projet

Tyko Project

Qualified Supervisor/Superviseur qualifié

Neil Pettigrew

This Permit is issued to: Ce Permis est délivré a:

Name of Permittee:/Nom du détenteur:

Tyko Resources Inc.

Mailing Address:/Adresse postale:

132 Robinson Drive, Thunder Bay, ON P7A 6G5

To conduct early exploration activities from/ Pour effectuer des activités d'exploration du (yyyy/mm/dd):

2020/10/16

to: 2023/10/15

On claim/lease/licence of occupation number(s):/Sur le numéro(s) du claim/bail/permis d'occupation:

103411, 106879, 106880, 108512, 109457, 110087, 110731, 112904, 113920, 114013, 114251, 119015, 119851, 119852, 123626, 128724, 130154, 131232, 134370, 135147, 135148, 135149, 140254, 140659, 141527, 146071, 146587, 147232, 147233, 147356, 154693, 154694, 157362, 158344, 158367, 158368, 158369, 158445, 158446, 160632, 164455, 166066, 166102, 166103, 166707, 166708, 175327, 187813, 190959, 192671, 194731, 195327, 195384, 207351, 211017, 211018, 213279, 213417, 214024, 216881, 221914, 225455, 231708, 236124, 236427, 236428, 236429, 239222, 246254, 246255, 248928, 249385, 250353, 254252, 254504, 257864, 261063, 262002, 262013, 266571, 268704, 273328, 273329, 275821, 288482, 288483, 297846, 298371, 307246, 308746, 309886, 316605, 318593, 320523, 320524, 320525, 325842, 328723, 332391, 332418, 332554, 333775, 333776, 345145, 537012, 537013, 537014, 537015, 537016, 537017, 537018, 537019, 537020, 537021, 537022, 537023, 537024, 537025, 537026, 537027, 537028, 537029, 537030, 537031, 537032, 537033, 537034, 537035, 537036, 537037, 537038, 537039, 537040, 537041, 537042, 537043, 537044, 537045, 537046, 537047, 537048, 537049, 537050, 537051, 537052, 537053, 537054, 537055, 537147, 537148, 537149, 537150, 537151, 537152, 537153, 537154, 537155, 537156, 537157, 537158, 537159, 537160, 537161, 537162, 537163, 537164, 537165, 537166, 537167, 537168, 537169, 537170, 537171, 537172, 537173, 537174, 537175, 537176, 537177, 537178, 537477, 544825, 544826, 544827, 544828, 544829, 544830, 544831, 544832, 544833, 544834, 544835, 544836, 544837, 544838, 544839, 544840, 544841, 544842, 544843, 544844, 544845, 544846, 544847, 544848, 544849, 544850, 544851,

544852, 544853, 544854, 544855, 544856, 544857, 544858, 544859, 544860, 544861, 544862, 544863, 544864, 544865, 544866, 544867, 544868, 544869, 544870, 544871, 544872, 544873, 544874, 544875, 544876, 544877, 544878, 544879, 544880, 544881, 544882, 544883, 544884, 544885, 544886, 544887, 544888, 544889, 544890, 544891, 544892, 544893, 544894, 544895, 544896, 544897, 544898, 544899, 544900, 544901, 544902, 544903, 544904, 544905, 544906, 544907, 544908, 544909, 544910, 544911, 544912, 544913, 544914, 544915, 544917, 544918, 544919, 544920, 546029, 546030, 546031, 546032, 546033, 546034, 546035, 546036, 546037, 546038, 546039, 546040, 546041, 546042, 546043, 546044, 546045, 546046, 546047, 546048, 546049, 546050, 546051, 546052, 546053, 546054, 546055, 546056, 546057, 546058, 546059, 546245, 548172, 548173

As per the project map(s) and Activity Details Report, all of which are attached hereto and which form part of this permit/
Selon la/les carte(s) du projet et le Rapport Détaillé des Activités, tous qui sont attachés ici et qui forment partie du permis

for the purpose of Permit activities:

- Mechanized Drilling (assembled weight >150kg)/ Forage mécanisé (poids assemblé >150 kg)
- Mechanized Stripping (>100m² in 200m radius)/ Décapage mécanisé (>100 m² dans un rayon de 200 m)
- Pitting and Trenching (>3m³ in 200m radius)/ Creusement de fosses et de tranchées (>3 m³ dans un rayon de 200 m)
- Line Cutting (>1.5m width)/ Découpage des quadrillages (>1,5 m de largeur)
- Other (Early exploration activities for which Director has required a permit)/Autre (Activités d'exploration préliminaires pour laquelle le Directeur a demandé un permis):

for the purpose of Plan activities:

- Ground geophysical survey requiring a generator (Les levés géophysiques au sol qui nécessitent l'utilisation d'une génératrice)
- Mechanized Drilling (assembled weight <150kg)/ Forage mécanisé (poids assemblé <150 kg)
- Mechanized Stripping (<100m² in 200m radius)/ Décapage mécanisé (<100 m² dans un rayon de 200 m)
- Pitting and Trenching (1-3m³ in 200m radius)/ Creusement de fosses et de tranchées (1-3 m³ dans un rayon de 200 m)
- Line Cutting (<1.5m width)/ Découpage des quadrillages (<1,5 m de largeur)

Subject to the following conditions:/Et sous les conditions suivantes:

1. The Permittee shall keep this permit or a true copy thereof on the permit area./Le détenteur conserver ce permis ou une copie conforme sur les lieux des travaux.
2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the exploration permit area to any inspector whenever requested by the officer./Le responsable des travaux couverts par ce permis doit produire le permis ou sa copie conforme si un inspecteur lui demande.
3. The requirements outlined in Schedule 1 of Ontario Regulation 308/12 and applicable Provincial Standards for Early Exploration/ Les exigences générales identifiées à l'annexe 1 du Règlement de l'Ontario 308/12 et les normes provinciales relatives à l'exploration préliminaire.
4. Other terms and conditions as listed on this permit./Autres termes et conditions énoncés sur ce permis.

Place of Issue/Emis a:

Thunder Bay

Issued by/Emis par:

Colin Hovi for Scott Burgess, Director of Exploration

Date of Issue/Date émis (yyyy/mm/dd, aaaa/mm/jj):

2020/10/16

Signature of Director/Signature du directeur:



Additional Terms and Conditions:

Autre termes et conditions:

1) The Permittee shall provide advance written notice of its intent to mobilize or de-mobilize personnel and equipment on the Project Site, with such notice to be provided in the following manner:

a) By electronic mail sent to ENDM to the following address: TBAY-MDLB@ontario.ca;

b) Upon mobilization: Four (4) weeks prior to initial commencement of the permitted early exploration activities and upon recommencement of any such activities following a suspension or period of inactivity of more than four (4) weeks; and

c) Upon de-mobilization: Not less than one (1) week prior to a planned suspension or period of inactivity of more than four (4) weeks or the completion of the permitted activities.

2) No drilling shall be conducted within:

o 50 m of Smokey Lake between April 1 and October 31 of each year, or

o 30 m of Smokey Lake between November 1st and March 31st.

3) No drilling shall be conducted within 50m of any water body other than Smokey Lake.

4) No pitting and trenching authorized by this Permit shall be carried out within 50 meters of any water body, as defined by the Provincial Standards.

5) The permittee shall employ the use of sumps to collect sediment from trenching and drilling operations where there is any risk of sediment reaching a waterbody as defined by the Provincial Standards.

6) The permittee shall have a spill kit on site at all times.

Collection of personal information, if any, on this form is authorized by sections 7, 78.2, 78.3, and subsection 178.2(1) of the *Mining Act* for the purpose of creating a public record as described in section 37 of the *Freedom of Information and Protection of Privacy Act*. This information may also be posted in a modified form on the Ministry of Northern Development and Mines website and on the Environmental Registry for public comment. Questions about this collection should be directed to the Mineral Exploration and Development Section, Ministry of Northern Development and Mines, 933 Ramsey Lake Road, Sudbury ON P3E 6B5. Telephone 705-670-5815.

Preferred language of correspondence

- English
 French

Fields marked with an asterisk (*) are mandatory.

1. Project Details

Project Name *

Tyko

Name of Early Exploration Proponent *

Tyko Resources

Is the proposed early exploration area within the project area for an existing filed closure plan? *

Yes No

Are there any mine hazards identified in the [Abandoned Mines Information System \(AMIS sites\)](#) in your project area? *

Yes No

Enter the Universal Transverse Mercator Coordinates (UTM) in North American Datum 83 (NAD 83) Grid for the centre of your project area

Zone (N) *

UTM Zone 16

Easting (m) *

511,000mE

Northing (m) *

5,423,000mN

2. Exploration Logistics and Detailed Information

Will explosives be used for any activity/activities? If yes describe in detail which activities require the explosives, where they will be stored, and any other relevant information.

No

What commodity or commodities are being sought in the work program?

Ni, Cu, PGE

How will you be transporting personnel to the exploration site for all activities? Describe in detail.

using logging roads and drill trails, as well as helicopters for more remote sections of the property

How will you be mobilizing/demobilizing equipment to and from the exploration site for all activities? Describe in detail.

using logging roads and drill trails, as well as helicopters for more remote sections of the property

What type of equipment will you be using for all of the early exploration activities?

Drilling will use both skid mounted drills pulled by bulldozer for drill holes located near existing logging roads, and helicopter portable drills for more remote parts of the property. Outcrop stripping will be done using track mounted backhoe. Personnel will commute to the site using 1/2 ton trucks, ATVs, boats and helicopters.

What type of drilling will take place? (e.g. core drilling, reverse circulation)
Core Drilling

Do you anticipate the removal of the drill casing?

Yes No

If yes, when will you be removing it?

Immediately 3 to 6 months 6 to 12 months 1 to 2 years

For the exploration activities you have selected in your early exploration submission please fill in the associated details (required for all activities proposed). *

Geophysical surveys requiring a generator	▶	Type of Survey	<u>IP, down hole EM</u>
Line cutting	▶	Estimated total line length	<u>42000</u> metres
Mechanized Stripping	▶	Planned Number of stripped locations	<u>11</u>
		Estimated total area of stripping	<u>3000</u> square metres
Pitting and Trenching of Bedrock	▶	Planned Number of Pits/Trenches	<u></u>
Mechanized Drilling	▶	Planned drill hole diameter	<u>0.57</u> centimetres
		<input type="checkbox"/> 1 - 5 pads	
		<input type="checkbox"/> 6 - 10 pads	
		<input type="checkbox"/> 11 - 15 pads	
		<input type="checkbox"/> 16 - 20 pads	
		<input checked="" type="checkbox"/> > 20 pads	

Please identify any non-prescribed activity/activities you will be undertaking to support the prescribed early exploration activity/activities

Creating trails for the purposes of early exploration
 Creating roads for the purposes of early exploration
 Creating/setting up camp(s) to house personnel to perform your prescribed early exploration activities
Number of people in camp 8 Number of camps 1
 Ground geophysical surveys without a generator
 Airborne geophysical surveys

Are you planning to store fuel or other hazardous materials on the property? *

Yes No

Please provide any other information relevant to this project.

3. Signature

Name (Last Name, First Name)

Pettigrew

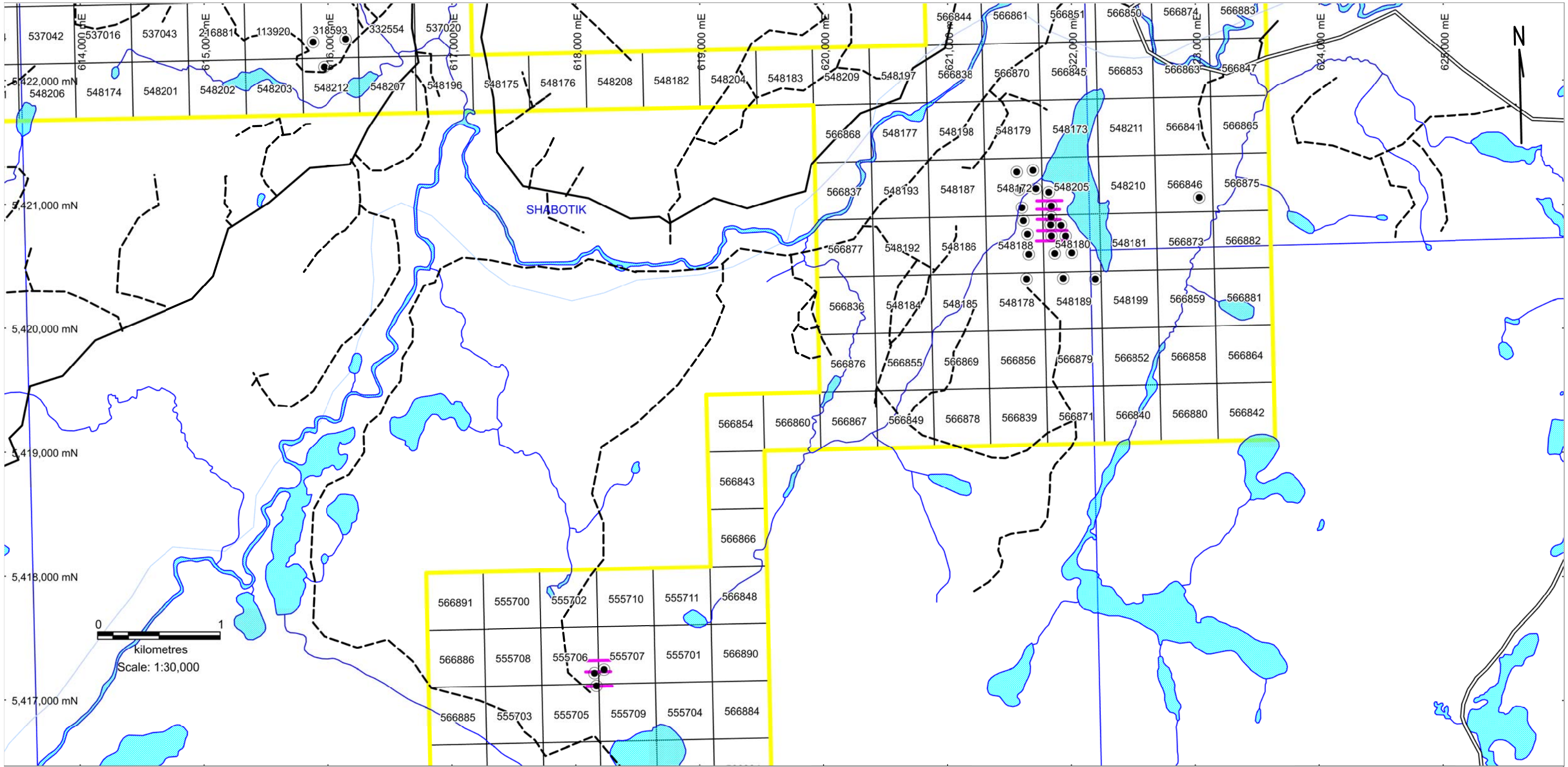
Email Address

neil.pettigrew@fladgateexploration.com

Signature

Date (yyyy/mm/dd)

2020/02/24



Legend

- Primary Roads
- Secondary Roads
- Tertiary Roads
- Rivers
- Lakes
- MNDM Administrative Boundaries
- Claims
- Property Boundary
- Proposed Camp

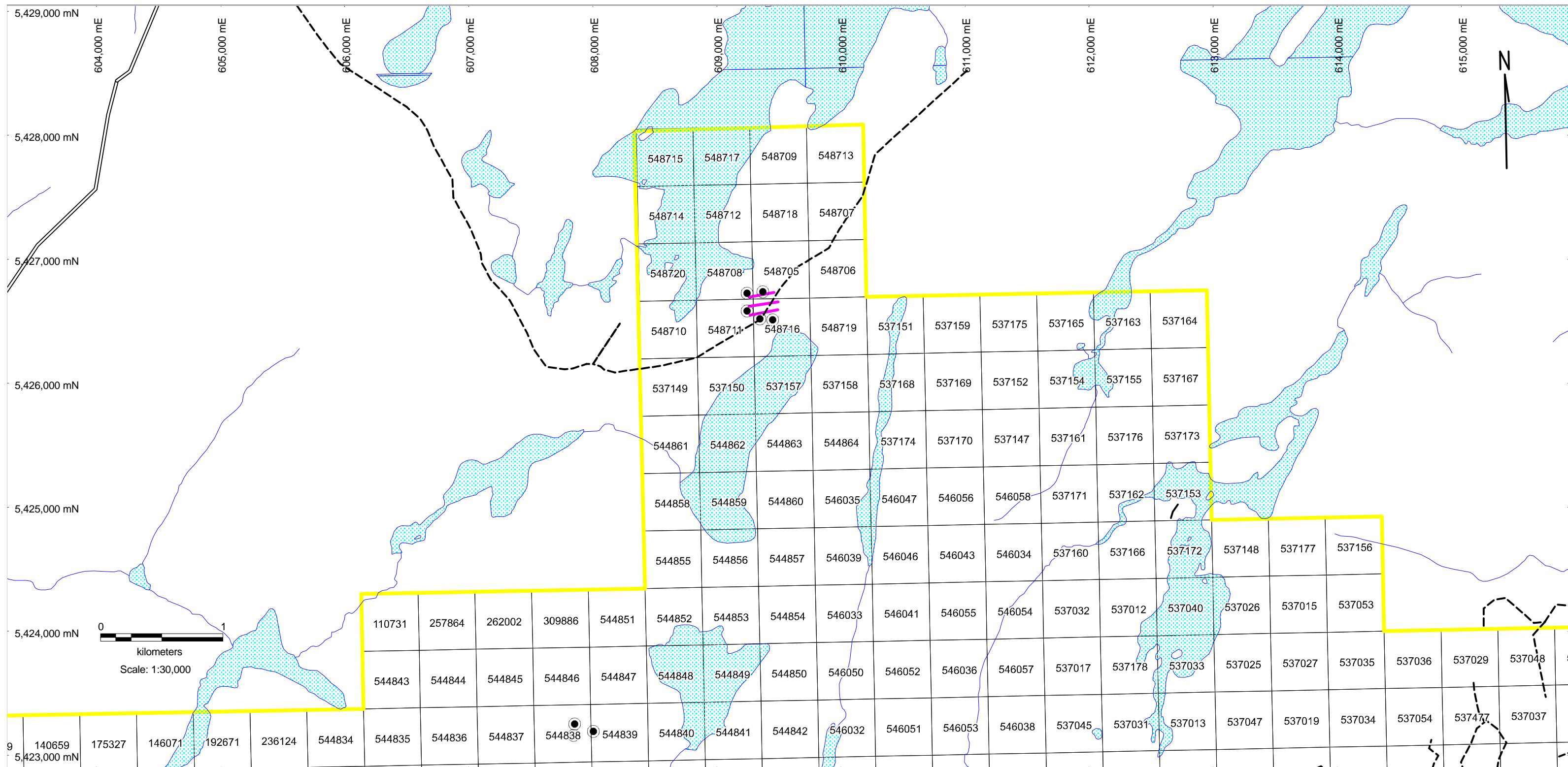
Property Map - Tyko Property - Palladium One Mining Inc.

- Proposed Stipping
- Proposed Line Cutting
- Proposed Drilling



February 18, 2020
 Mod Oct 15 2020
 Prepared by Jordan Quinn
 Projection: UTM Zone 16
 (NAD83)





Legend

- Primary Roads
- Secondary Roads
- Tertiary Roads
- Rivers
- Lakes
- MNDM Administrative Boundaries
- Claims
- Property Boundary
- Proposed Camp

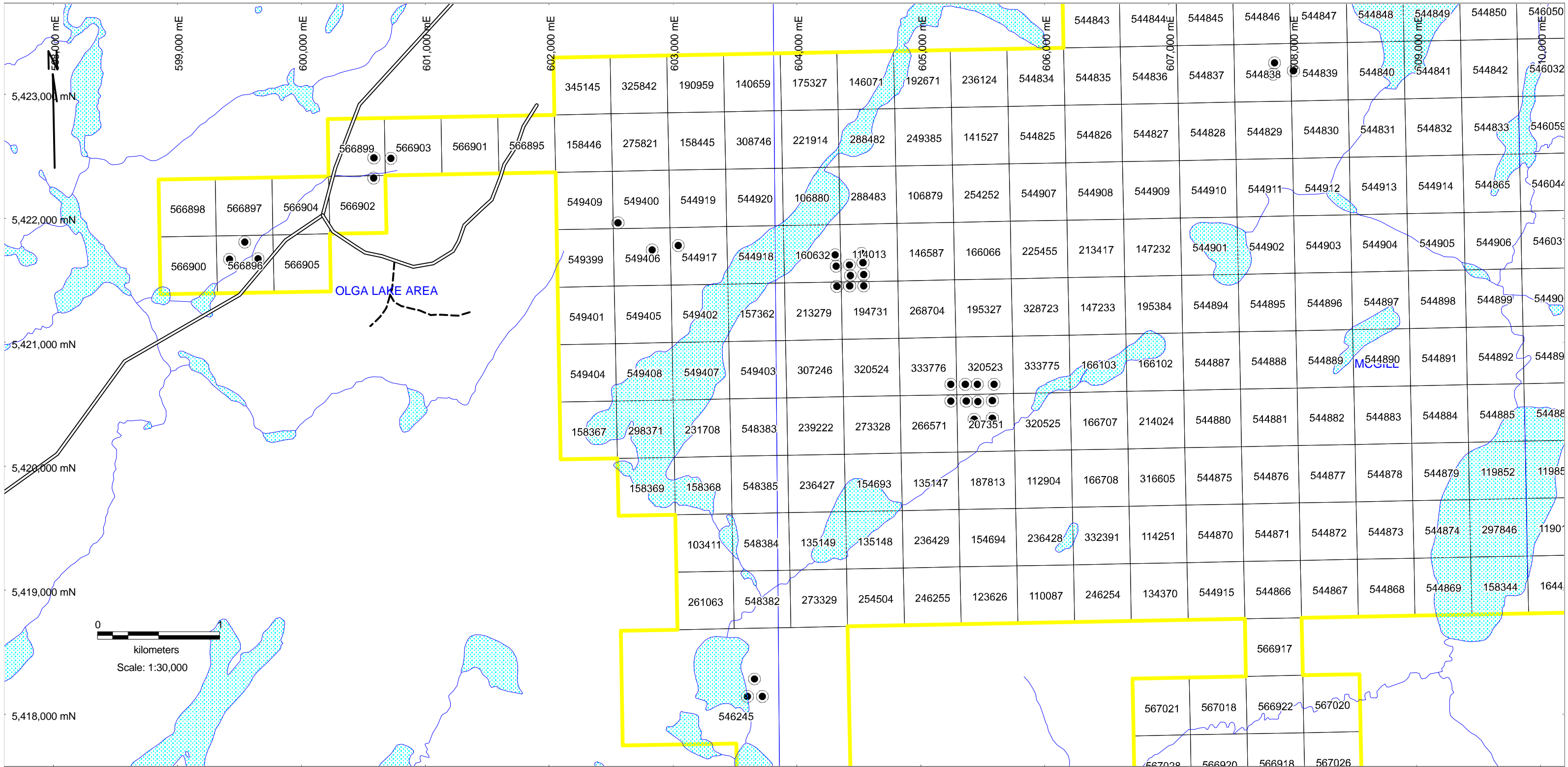
Project Map - Tyko North Property - Palladium One Mining Inc.

- Proposed Stipping
- Proposed Line Cutting
- Proposed Drilling



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 Projection: UTM Zone 16
 (NAD83)





Legend

- Primary Roads
- Secondary Roads
- Tertiary Roads
- Rivers
- Lakes
- MNDM Administrative Boundaries
- Claims
- Property Boundary
- Proposed Camp
- Proposed Stipping
- Proposed Line Cutting
- Proposed Drilling

Project Map - Tyko West Property - Palladium One Mining Inc.



February 18, 2020
 Prepared by Jordan Quinn
 Projection: UTM Zone 16
 (NAD83)

