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**ⲕ<sup>b</sup>ⲓ<sup>ϥb</sup>ⲛⲉⲧⲏⲩⲱⲙⲟⲩ:**

**Period of operation:**

[illegible]

**ΛΓΠΔΕΖΗΘΙ:**

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כחלק מפרויקט

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The claims are in the name of Bruce MacLachlan, Prospector and President of Emerald Geological Services and in the name of Coleman Robertson, Epworth Project Geologist. The Epworth Project is located in Nunavut, ~500km north of the city of Yellowknife in the Northwest Territories, and ~80 km south-southeast of the town of Kugluktuk. The property is comprised of 440 claim units totaling 6909 hectares. The proposed exploration program will target minerals such as copper, zinc, lead, silver, cobalt and gold. Currently we anticipate that the drilling will be carried out by Great Slave Drilling based in Hay River, NWT. The drill program will be managed and supervised by Emerald Geological Services. Emerald has decades of experience carrying out and managing safe and environmentally responsible exploration programs. The 2024 proposed drill program calls for drilling of 1000-1500 metres of drill core for a total of 10-15 drillholes. If possible, we would like to move ~20 sealed drums of diesel from Kugluktuk to Epworth by Twin Otter and place the drums on land within a containment berm. The drums would be later slung by helicopter to the drill sites. Drillers, pilot, and engineer would be based in Kugluktuk and carry out daily crew changes by helicopter. All drill moves will be carried out by helicopter. Currently we anticipate drilling ~12 holes up to 150 metres each deep. Geological staff would stay in a tent on site, located at a previously used site during the 2022 exploration program, where the logging and core sampling will take place. All fuel drums, garbage, equipment, and shelters will be removed at the end of the program with routine extractions of used fuel drums and garbage being removed over the course of the program. Drill core will remain cross piled on site for future reference. The estimated number of personnel on site at any point in time is 7 people for a total duration of 30 days to complete the drilling program. Water will need to be drawn from a nearby lake by mechanical pumps for the drilling operations as well as for camp use needs. Anticipated water use for drilling is 120m<sup>3</sup>/day and an additional 5m<sup>3</sup>/day for personnel and camp use. All grey water and human waste will be buried (anticipated 5 gallons each per day). All drilling cuttings will be captured and placed in natural depressions and covered with soils. The drilling contractor will be using environmentally friendly biodegradable drilling additives including the containers they are shipped in. The proposed timeline for the work to be completed is from 2024-06-01 through 2024-09-30.

►ΔΑΝΩΣ: Les claims sont au nom de Bruce MacLachlan, prospecteur et président d'Emerald Geological Services et au nom de Coleman Robertson, géologue du projet Epworth. Le projet Epworth est situé au Nunavut, à environ 500 km au nord de la ville de Yellowknife dans les Territoires du Nord-Ouest et à environ 80 km au sud-sud-est de la ville de Kugluktuk. La propriété comprend 440 unités de claims totalisant 6 909 hectares. Le programme d'exploration proposé ciblera des minéraux tels que le cuivre, le zinc, le plomb, l'argent, le cobalt et l'or. Actuellement, nous prévoyons que le forage sera effectué par Great Slave Drilling, basée à Hay River, dans les Territoires du Nord-Ouest. Le programme de forage sera géré et supervisé par Emerald Geological Services. Emerald possède des décennies d'expérience dans la réalisation et la gestion de programmes d'exploration sûrs et respectueux de l'environnement. Le programme de forage proposé pour 2024 prévoit le forage de 1 000 à 1 500 mètres de carottes de forage pour un total de 10 à 15 trous de forage. Si possible, nous aimerions déplacer environ 20 fûts scellés de diesel de Kugluktuk à Epworth par Twin Otter et placer les fûts sur terre à l'intérieur d'une berme de confinement. Les fûts seraient ensuite transportés par hélicoptère vers les sites de forage. Les foreurs, les pilotes et les ingénieurs seraient basés à Kugluktuk et effectueraient quotidiennement les changements d'équipage par hélicoptère. Tous les mouvements d'exercice seront effectués par hélicoptère. Actuellement, nous prévoyons de forer environ 12 trous jusqu'à 150 mètres de profondeur chacun. Le personnel géologique resterait dans une tente sur place, située sur un site précédemment utilisé lors du programme d'exploration de 2022, où auront lieu la diagraphie et le carottage. Tous les fûts de combustible, déchets, équipements et abris seront retirés à la fin du programme, les extractions de routine des fûts de combustible usé et des déchets étant enlevés au cours du programme. Les carottes de forage resteront empilées sur place pour référence future. Le nombre estimé de personnel sur place à tout moment est de 7 personnes pour une durée totale de 30 jours pour terminer le programme de forage. L'eau devra être puisée d'un lac voisin au moyen de pompes mécaniques pour les opérations de forage ainsi que pour les besoins du camp. La consommation d'eau prévue pour le forage est de 120 m<sup>3</sup>/jour et de 5 m<sup>3</sup>/jour supplémentaires pour le personnel et le camp. Toutes les eaux grises et les déchets humains seront enterrés (prévus 5 gallons chacun par jour). Toutes les déblais de forage seront captés et placés dans des dépressions naturelles et recouverts de terres. L'entrepreneur en forage utilisera des additifs de forage biodégradables respectueux de l'environnement, y compris les conteneurs dans lesquels ils sont expédiés. Le

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Inuinnaqtun: Tamna uuktuqtunik atilik Bruce MacLachlan, Uyaraqhiuqtiyuug Angiyuqaanguyuqlu Emerald Geological Services-mi atialu Coleman Robertson, Epworth Havaaqqhangit Nunaliqiyi. Tamna Epworth Havaaqqhaq nayugaqaqtuq Nunavunmi, ~500nik kilaamitanik tunungani nunalipauyam Yalunaimi Nunatsiarmi, unalu ~80 km hivugaani kivatani hivuraani kivatani nunallaap Kugluktumi. Nanminiriyaat piqaqtuq 440nik utirutinik tamainik 6909 hectaresnik. Tamna tukhiqtauhimayug qiniqhiayukharnik ilihairutikharnik aulaniaqtun uyaraqhiuqtunik taimaitunik coppernik, zincnik, hivuliqtikharnik, silvernik, cobaltnik kuulmiklu. Taja nahuriyaqut ikuutautit tigumiaqtauniaqut Great Slave-mik Ikuutariagani pijutiqaqtumik Hay River-mi, NWT-mi. Tamna ikuutarnikkut ilihairutikhaq munaqtauniaqtun tutqikhainiaqtunlu tapkuninga Emerald Gerald Nunamiutanik Ikayuutikharnik. Emerald piqaqtuq qulinik ukiunik atuqhimayaminik pihimabluni uvalu munagiblugit qayangnaitumik uvalu avatingnun munaqhittiaqtumik qiniqhianikkut ilihaidjutinik. 2024-mi atulirumayauyuq ikuutariagani havaamik tuukhiqtut ikuutariagani 1000-mit 1500-mut miitamik ikuutariagani ikuutariagani atautimut 10-mit 15-mut ikuutautinik. Piyuminaqqan, nuuttumagupta ~20 nattirmik qattaryungnik Kugluktumit Epworth Twin Otter-mik iliurarlugulu qilaudjat nunami iluani iluani kuvilaitkutikharnik. Tamna qattaryuit tipaitniaqtuq halikaaptakkut ikuutarviinun. Drillers, uuktulihaaqtaq, hanajilu tunnganiqaqtuq Kugluktumi tigumiarlunilu ubluq tamaat havaktiit aallanguqtirutinik halikaaptakkut. Tamaita ikuutautit ingutaarutait havaktauniaqtut halikaaptakkut. Taja naahurijavut ikuutarniq ~12 holes-mik imaattut 150 metres-mik. Nunamiutanik havaktut talvaniiniaqtut tupiqaqvikmi inikharnik, iniaqtut hivuani atuqtauyumi inigiyauyumi atuqtilugu 2022-mi qiniqhiayit havaami, humi itiqtauvigiluaqlugit naunaiyagakhatlu inikhait. Tamaita urhuqyuat qattaryuit, iqqakut, tamayat, qimaavillu unguvaqtauniaqtut nunguani pinahuarutit atuqpaktait uqhughat qattaryuit iqqakutlu unguvaqtiqtauliqtut iliaqtaghanit. Ikuutarutit qitqani aulahimaniaqtut ikaarnirmun nayugaini hivungani naunaiyautini. Itqurniarutait qaffiuniit havaktut nayugaani quyaginaq 7nik inungnik attautimun hivituniani 30nik ublunuk iniqtiqiangani ikuutangnikkut ilihaidjutit. Imaq tiguyauyukhaq haniani tahiqlimin imaa ingniqtikkut papiutit ikuutaqnikkut auladjutit imaalu maniqami atuqtauyut ihagiagiyauyut. Niriuktaujuq imaq ikuutariami una 120m<sup>3</sup>/ubluq aallamiklu 5m<sup>3</sup>/ubluq havaktinun tangmaarvingmunlu aturutikhanun. Tamaita imait uvalu inuit iqakut kuviniaqtut (niriugiyauyut 5 gaasit attautini ubluni). Tamaita ikuutautit kibluutait piyauniaqtut uvalu iliugaqlugit idjuhiatigut in'ngumanikkut uvalu halumalugit nunat. Tamna ikuutarnikkut kaantulaangit aturniaqtun avatiliqinikkut ihuaqtumik biodegradenik ikuutaqiaqaqtunik ilauyukharnik ilauyut puungit tuyuqtauvakhimayut. Tamna tukhiqtauhimayug

ikaaknikhaq havaaqharnun iniqtiqtauyukhaq talvanga 2024-06-06-01 talvuuna 2024-09-30mun.

**Personnel**

Personnel on site: 7

Days on site: 30

Total Person days: 210

Operations Phase: from 2024-06-01 to 2024-09-30

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Proposed Drill Collars	Drilling	Crown	N/A	N/A	N/A
Camp 2022 & Proposed 2024 Camp Site	Camp	Crown	This site was used during the 2022 exploration program and is also the planned location of the 2024 exploration camp.	N/A	N/A

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ᓐᓴᓴᐅᓐᓴᓐ	Amanda Dumond	Kugluktuk Angoniatit Association - Hunters and Trappers Organization	2023-04-04

$\subset \Delta^{\text{eq}}_j \wedge J_{\text{eq}} \triangleright \dot{n} \triangleleft r^{\text{eq}} \subset \triangleright L^{\text{eq}}$

### Project transportation types

Transportation Type	Transportation Mode	Length of Use
Air	Helicopter	

### Project accomodation types

## Temporary Camp

**A<sup>c</sup>D<sup>c</sup> A<sup>a</sup>rA<sup>b</sup> AD<sup>b</sup>C▷σ▷rA<sup>b</sup> ΔL<sup>b</sup>p▷nJr<sup>c</sup> ΔjCΔ<sup>c</sup>, Γ↗ADḡ<sup>c</sup>, ‘b’LCj<sup>b</sup>, ወይም C ፋሽኒን**

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AL<sup>9b</sup> ◀<sup>9b</sup> CD▶<sup>9b</sup> L<sup>9b</sup> ▶<sup>9b</sup>

<p> <math>\Delta \rightarrow \text{CL}^{\text{Cb}} \rightarrow \Delta \rightarrow \text{C} \rightarrow \sigma \rightarrow \Delta^{\text{Cb}} \rightarrow \text{Cb}</math> </p>	<p> <math>\text{Cb}^{\text{Cb}} \Delta \Gamma^{\text{Cb}} \text{C}^{\text{Cb}} \text{C}^{\text{Cb}} \sigma \rightarrow \Delta^{\text{Cb}} \rightarrow \text{Cb}</math> </p>	<p> <math>\text{aP}^{\text{Cb}} \Delta \Gamma^{\text{Cb}} \text{C}^{\text{Cb}} \text{C}^{\text{Cb}} \sigma \rightarrow \Delta^{\text{Cb}} \rightarrow \text{Cb}</math> </p>
144	pump	Lake adjacent to camp (for camp purposes). For drilling purposes a waterbody of sufficient volume to support draw without adverse effects will be selected.

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Camp	ፈለጋሪ ልጋሪ ልጋሪ	5 gallons / day	bury in the ground	cover with soil
Drilling	ፈለጋሪ ልጋሪ ልጋሪ ልጋሪ ልጋሪ ልጋሪ	31,680gal / 24hr	Drill cuttings will be captured and placed in natural depressions	Cover with soil
Camp	ኤፌልጋሪ ልጋሪ	5 gallons per day	Bury in the ground	Cover with soil

$\triangleleft \nabla \Gamma \triangleright C^{\circ} \cup^C \triangleleft^b \cup^{qb} C \triangleright L \downarrow^C$

CAMP; Human waste and grey water will be buried to avoid potential contamination of near by waterways. There will be minor vegetation disturbance from foot traffic and temporary camp structures during the program. Previous camp area is being used to minimize disturbance to other areas. All garbage will be removed by helicopter. DRILLING; The noise levels of the drill rig will not be able to be mitigated. However, this should only last for 30 days maximum and there will be shut downs when the drill rig is being moved every couple of days. Vegetation disturbance where drill rig and associated equipment are placed by the helicopter. Drill additives will be biodegradable and cuttings will be directed/trapped in low lying depressions which will act as a natural collection point. This material will then be covered in soils to prevent future disturbances and run off into water bodies.



# **Additional Information**

## **SECTION A1: Project Info**

## **SECTION A2: Allweather Road**

## **SECTION A3: Winter Road**

## **SECTION B1: Project Info**

## **SECTION B2: Exploration Activity**

On land diamond drilling (Core drilling)

## **SECTION B3: Geosciences**

## **SECTION B4: Drilling**

1.Approximately 12 drill holes will be completed to a maximum depth of 150m each.2.The drilling contractor will be using environmentally friendly biodegradable drilling additives, including the containers they are shipped in.3.Drilling cuttings will be captured and placed in natural depressions and covered with soils.4.Water for the drill will be sourced from a nearby lake using a pump and hose to transport the water.5.Drilling equipment will be mob/demob and moved by helicopter.6.Casing will be left in the holes. These will be capped and marked with a post with reflective materials.

## **SECTION B5: Stripping**

## **SECTION B6: Underground Activity**

## **SECTION B7: Waste Rock**

## **SECTION B8: Stockpiles**

## **SECTION B9: Mine Development**

## **SECTION B10: Geology**

## **SECTION B11: Mine**

## **SECTION B12: Mill**

## **SECTION C1: Pits**

## **SECTION D1: Facility**

## **SECTION D2: Facility Construction**

## **SECTION D3: Facility Operation**

## **SECTION D4: Vessel Use**

## SECTION E1: Offshore Survey

## SECTION E2: Nearshore Survey

## SECTION E3: Vessel Use

## SECTION F1: Site Cleanup

## SECTION G1: Well Authorization

## SECTION G2: Onland Exploration

## SECTION G3: Offshore Exploration

## SECTION G4: Rig

## SECTION H1: Vessel Use

## SECTION H2: Disposal At Sea

## SECTION I1: Municipal Development

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### Miscellaneous Project Information

• Abandonment and Decommissioning Site The plan is to remove all equipment including any fuel drums at the end of the drill program. • Existing site photos with descriptions The drilling will be carried out west, south north and east of the photo called Metallic showing look SSE. The August 12 Sunset is where the camp will be located. • Emergency Response Plan See attached document from Great Slave Drilling. • Comprehensive Spill Prevention/Plan (must consider hazardous waste and fuel handling, storage, disposal, spill prevention measures, staff training and emergency contacts) Containment fuel spill contingency plans (attach separate contingency plan if necessary) We plan to have double walled fuel tanks and all fuel drums will be stored in berms. Absorbent matting and spill kits will be at the drill, all fuel storage locations and the water pump. • Waste Management Plan/Program Garbage Would be disposed of in Kugluktuk pending approval, otherwise sent to Yellowknife. Sewage (sanitary and grey water) Dig a hole for sewage and greywater. Overburden (organic soils, waste material, etc.) Drill cuttings would be collected and placed in natural low areas.

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## Cumulative Effects

The camp location being used was used during the 2022 field exploration program. There would have been some minor impact on vegetation in the camp area due to foot traffic and the use of this site again will have a slightly increased impact on the vegetation in the vicinity. The burying of grey water and human waste in the area would have been done previously as well. However, when completed correctly the impact would be minimal. The drill pad area will have minor impact to vegetation and the capturing of drill cuttings in low lying areas. Burring the cuttings in soil will mitigate potential runoff into waterbodies. If in the future more drilling is completed this would lead to an increased disturbance of the vegetation and alternative methods of

capturing drill cuttings may need to be implemented to avoid filling low lying depressions.

## Impacts

$\mathbb{A}^b \mathbb{C} \triangleright \sigma^a \tau^c \triangleleft \mathbb{B} \mathbb{C} \triangleright \sigma^c \tau^c \triangleleft \mathbb{B}^b \mathbb{C} \triangleright \tau^c \mathbb{C}$

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( $P = \langle b \rangle_{\mathcal{A} \cap \mathcal{B} \cap \mathcal{C}}$ ,  $N = \langle b \rangle_{\mathcal{A} \cap \mathcal{C}}$ ,  $M = \langle b \rangle_{\mathcal{A} \cap \mathcal{B}}$ ,  $U = \langle b \rangle_{\mathcal{B} \cap \mathcal{C}}$ )

## List of Project Geometries

1	polygon	Epworth Claims
2	point	Camp 2021
3	point	Camp 2022 & Proposed 2024 Camp Site
4	point	Camp 2023
5	point	Proposed Drill Collars