



# REGIONAL DISTRICT OF BULKLEY-NECHAKO

## RURAL/AGRICULTURE COMMITTEE

### AGENDA

Thursday, July 21, 2022

<u>PAGE NO.</u>		<u>ACTION</u>
	<u>AGENDA- July 21, 2022</u>	Approve
	<u>Supplementary Agenda</u>	Receive
	<u>MINUTES</u>	
2-4	Rural/Agriculture Committee Meeting Minutes - June 16, 2022	Approve
	<u>DELEGATION</u>	
	<u>RCMP – via Zoom</u> Superintendent Brian Edmonds RE: Update	
	<u>RURAL REPORT</u>	
5-6	Nellie Davis, Manager of Regional Economic Development – Grant in Aid Update	Receive
	<u>DEVELOPMENT SERVICES</u>	
	<u>Mine Referrals</u>	
7-17	Rowan Nagel, GIS/Planning Technician Notice of Work File #1641067-2022-01 Electoral Area C	Recommendation
18-30	Danielle Patterson, Senior Planner Notice of Work File #1300257-2022 Electoral Area C	Recommendation
	<u>SUPPLEMENTARY AGENDA</u>	
	<u>NEW BUSINESS</u>	
	<u>ADJOURNMENT</u>	

**REGIONAL DISTRICT OF BULKLEY-NECHAKO**

**RURAL/AGRICULTURE COMMITTEE MEETING**

**Thursday, June 16, 2022**

**PRESENT:** Chair Mark Parker

Directors Mark Fisher  
Tom Greenaway  
Clint Lambert  
Chris Newell  
Jerry Petersen  
Michael Riis-Christianson  
Gerry Thiessen – arrived at 2:01 p.m.

Staff Curtis Helgesen, Chief Administrative Officer  
Cheryl Anderson, Director of Corporate Services  
Nellie Davis, Manager of Regional Economic Development  
Jason Llewellyn, Director of Planning – arrived at 2:00 p.m., left at 2:22 p.m.  
Wendy Wainwright, Deputy Director of Corporate Services

Others Gladys Atrill, Town of Smithers – via Zoom  
Shane Brienen, District of Houston – arrived at 2:01 p.m.  
Linda McGuire, Village of Granisle

**CALL TO ORDER**

Chair Parker called the meeting to order at 1:52 p.m.

**AGENDA**

Moved by Director Riis-Christianson  
Seconded by Director Greenaway

RDC.2022-6-1

“That the Rural/Agriculture Committee Agenda for June 16, 2022 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

**MINUTES**

Rural/Agriculture Committee Meeting Minutes  
-May 12, 2022

Moved by Director Petersen  
Seconded by Director Riis-Christianson

RDC.2022-6-2

“That the minutes of the Rural/Agriculture Committee meeting of May 12, 2022 be approved.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

**AGRICULTURE REPORTS**

Meat Processing Training Development

Moved by Director Greenaway  
Seconded by Director Riis-Christianson

RDC.2022-6-3

“That the Committee direct staff to continue supporting the development of increased meat-cutting training opportunities in the region.”

(All/Directors/Majority)

CARRIED UNANIMOUSLY

## **AGRICULTURE REPORTS (CONT'D)**

Discussion took place regarding:

- Supporting local producers and getting product to local stores
- Staff follow up and continue the conversation with Coast Mountain College to determine the additional information that is required before they can commit resources to increasing meat processing trades training
- Providing training is impacted by housing crisis – no available housing – multifaceted issue
- Concerns regarding labour issues
  - o Foreign workers and immigration
- Providing information to BC Cattlemen's Association
- Butchering workshops
- On farm slaughter regulations.

FCC Farmland Values  
Report 2021

Moved by Director Lambert  
Seconded by Director Newell

RDC.2022-6-4

"That the Committee receive the Manager of Regional Economic Development's FCC Farmland Values Report 2021 memorandum."

(All/Directors/Majority)

CARRIED UNANIMOUSLY

## **RURAL REPORTS**

### **Crown Land Referral**

Crown Land Application  
Referral No. 7410232  
Electoral Area "C"

Moved by Director Greenaway  
Seconded by Director Petersen

RDC.2022-6-5

"That Comment Sheet regarding Crown Land Application No. 7410232 be provided to the Province."

(All/Directors/Majority)

CARRIED UNANIMOUSLY

### **Mine Referral**

Mine Application  
Referral No. 14999968-004  
Electoral Area "C"

Moved by Director Greenaway  
Seconded by Director Petersen

RDC.2022-6-6

"That Comment Sheet regarding Mine Application Referral No. 14999968-004 be provided to the Province."

(All/Directors/Majority)

CARRIED UNANIMOUSLY

Including additional information in future reports to clearly identify waterways and applications being brought forward by the province was discussed.

## **RURAL REPORTS (CONT'D)**

### **COVID-19 Relief Fund Applications**

Moved by Director Riis-Christianson  
Seconded by Director Lambert

### **RDC.2022-6-7**

“That the Committee recommend that the Board approve the following applications for COVID-19 Relief Funds:

**-Electoral Area “D” (Fraser Lake Rural)**

-Glenannan Community Association – Insurance - \$1,628

**-Electoral Area “E” (Francois/Ootsa Lake Rural)**

-Eagle Creek Recreation Commission – Insurance \$1,244

**-Electoral Area “G” (Houston Rural)**

-Pleasant Valley Horse Club – Insurance and Society Fees - \$995.85.”

(All/Directors/Majority)

**CARRIED UNANIMOUSLY**

### **COVID-19 Relief Funds Remaining Allocation**

Discussion took place regarding:

- Allocation of funding and funding formula
- RDBN Building Re-wiring – included in budget
- Use of remaining COVID-19 Relief Funds for transit
- Staff will bring forward additional information regarding funding for transit
- Encouraging organizations to provide applications
- Director Fisher spoke of considering funding for the Smithers Airport.

## **DISCUSSION ITEM**

### **July 21, 2022 Meeting – RCMP Delegation Re: Topics for Discussion**

- Committee to provide topics to staff by the end of June
  - o Incident in the Houston area regarding Coastal GasLink and receiving updates
- Staff will provide the information provided by its member municipalities to the RCMP Staff Sergeant attending the meeting
- Each RCMP Detachment Staff Sergeant provides a different level of communication
- Encourage all Staff Sergeants to provide communication equally across the region.

## **ADJOURNMENT**

Moved by Director Newell  
Seconded by Director Lambert

### **RDC.2022-6-8**

“That the meeting be adjourned at 2:47 p.m.”

(All/Directors/Majority)

**CARRIED UNANIMOUSLY**

---

Mark Parker, Chair

---

Wendy Wainwright, Deputy Director of Corporate Services



## Regional District of Bulkley-Nechako Rural/Agriculture Committee

**To:** Chair and Committee  
**From:** Nellie Davis, Manager of Regional Economic Development  
**Date:** July 21, 2022  
**Subject:** Grant in Aid Update

---

**RECOMMENDATION:** (all/directors/majority)

Receive.

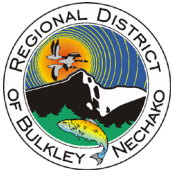
---

### BACKGROUND

The following Grant in Aid requests of \$2,500 or less were approved by Electoral Area Directors between January and June of 2022.

Community Group	Project	Amount
<b>Area A (Smithers/Telkwa Rural)</b>		
BVLD Airshed Management Society	Air Monitors in Area A	1,149
Bulkley-Valley Christian School	Bus Operations	2,500
Quick Stations Residents Assoc.	VHF Radios	436.60
Lake Kathlyn Protection Society	Engine Repairs	2,240
Bulkley-Valley Christian School	Litter-a-thon	2,500
Bulkley Valley Tool Library	Tool Purchase	2,330
Smithers Bikes	GobyBike Week 2022	2,500
<b>Area 'B' (Burns Lake Rural)</b>		
Lakes Outdoor Recreation Society	Site maintenance	2,500
<b>Area 'C' (Fort St; James Rural)</b>		
Fort St. James Secondary School	Sr Girls Volleyball Provincials	1,000
Murray Ridge Ski Patrol	VHF Radios/ Jr Ski Patrol	2,000

Fort St. James Secondary School	Haida Gwaii Cultural Trip	2,000
Fort St. James Youth Soccer	Coach Training and Equipment	2,500
Fort St James Secondary School	Sr Girls Basketball Provincials	1,000
Music on the Mountain	2022 Festival	1,000
<b>Area 'D' (Fraser Lake Rural)</b>		
Fraser Lake Elementary Secondary	2022 Scholarship	1,000
Fraser Lake RCMP	2022 Bike Rodeo	1,000
<b>Area 'E' (Francois/Ootsa Rural)</b>		
Southside Volunteer Fire Dept.	Computer and Printer	2,250
Lakes Outdoor Recreation Society	Site maintenance	2,500
<b>Area 'F' (Vanderhoof Rural)</b>		
New Caledonia Paddlers Club	Lakewater Instructor Levels 1 and 2	2,000
Nechako Valley Swim Club	Competitive Swim Meet	2,500
New Caledonia Paddlers Club	Wilderness First Aid Training	1,609
<b>Area 'G' (Houston Rural)</b>		



## Regional District of Bulkley-Nechako Rural/Agriculture Committee

**TO:** Chair and Committee  
**FROM:** Rowan Nagel, GIS Technician  
**DATE:** July 21, 2022  
**SUBJECT:** Notice of Work File # 1641067-2022-01

---

### RECOMMENDATION

**All/Directors/Majority**

That the attached comment sheet be provided to the Ministry of Energy, Mines and Low Carbon Innovation as the Regional District's comments on Notice of Work No. 1641067-2022-01.

---

### DISCUSSION

The Regional District has received a Notice of Work referral regarding an amendment to an existing permit under the *Mines Act*, to allow the continued operation of a quarry located approximately 3 kilometers northwest of the District of Fort St James. The quarry is accessed by a private *BioNorth*-owned Road located off Tachie Road.

The application is to allow the blasting, crushing and mechanical screening of rock and the excavation of pit run over a 1.3 ha area. The application is to extract up to 1,200 tonnes of materials per year, and the applicants to not specify an operational lifetime.

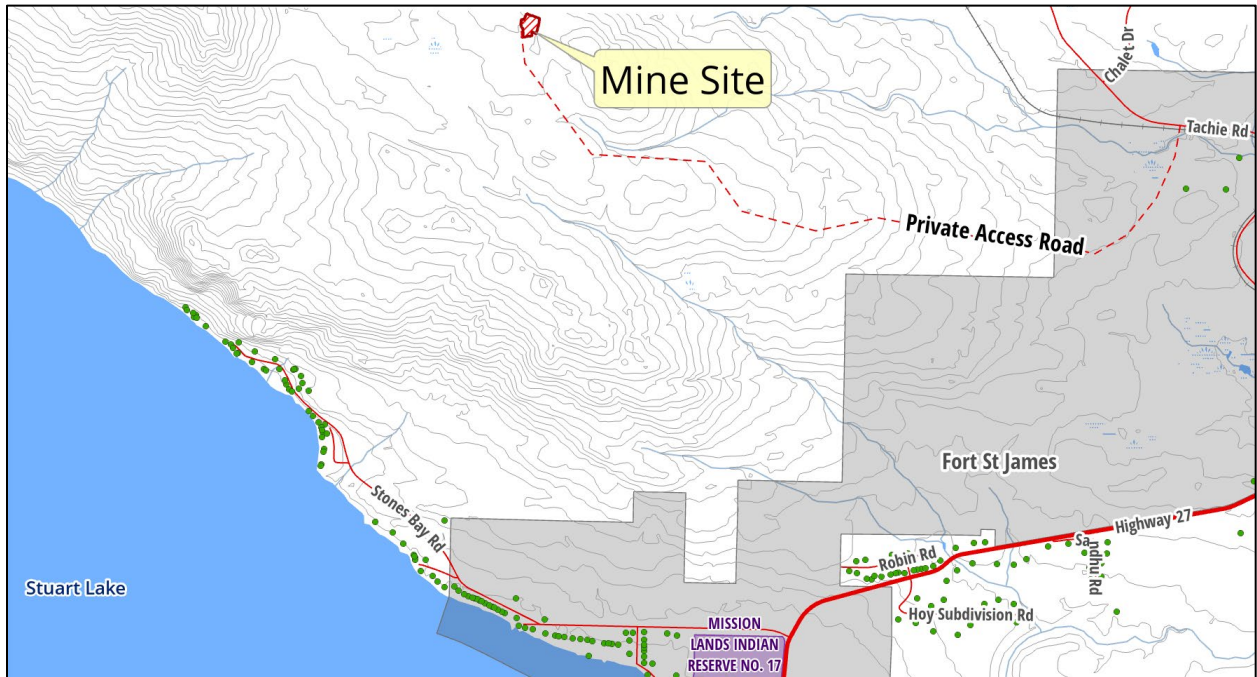
The reclamation proposed is to contour the land to a 3:1 or less slope, re-distribute the stockpiled surface material, and re-vegetate with a grass mix when extraction is complete. The estimated life of the pit is not indicated, and progressive reclamation is not proposed. The applicant indicates that noise or dust mitigation measures are not required as the activity is not near dwellings.

The application indicates that the nearest dwelling is 7 km from the quarry; however, it appears to staff that the dwellings along Stones Bay Road are approximately 3.1 km away, measured in a straight line. Staff are not aware of any existing concerns with the past operation of the quarry, likely due to significant topographical features between dwellings and the mine site.

**ATTACHMENT:**

Comment Sheet

Notice of Work Form





**REGIONAL DISTRICT OF BULKLEY-NECHAKO**  
**COMMENT SHEET ON NOTICE OF WORK 1641067-2022-01**

---

<b>Agent/Applicant:</b>	CSN Consulting on behalf of Canyon Tree Farms Inc.
<b>Electoral Area:</b>	C
<b>Existing Land Use:</b>	Former mining operation (Construction Aggregate)
<b>Zoning:</b>	Not Zoned
<b>OCP Designation:</b>	No Designation
<b>Proposed Use Comply with Zoning:</b>	N/A
<b>If not, why?</b>	N/A
<b>Agricultural Land Reserve Status:</b>	Not in the ALR
<b>Access:</b>	Tachie Road
<b>Within a Building Inspection Area:</b>	No
<b>Within a RDBN Fire Protection Area:</b>	No
<b>Other comments:</b>	N/A



# Notice of Work (No. 1641067-2022-01)

**Tracking Number:** 100386157

**Last Updated Date UTC:** 2022-06-23

**Exported Date UTC:** 2022-06-24 16:54

## Applicant Information

**If approved, will the authorization be issued to an Individual or Company/Organization?**

Company/Organization

**Relationship to Individual or Company/Organization?**

Consultant

## Application Information

**Type of Notice of Work:**

Quarry - Construction Aggregate

**Is this a New Permit or an Amendment to an existing permit for this property?**

Amendment

**Mine Number:**

1641067

**Permit Number:**

G-13-044

## One Year, Multi-Year or Multi-Year Area-Based Permit

**Type of permit to apply for:**

-

## Mine Information

**Name of Property:**

Canyon Tree Farms Inc.

**Tenure Number(s):**

Lands File: 7409518 Licence of Occupation No. 706685

**Crown Grant / District Lot Number:**

-

**Directions to Site from nearest municipality:**

From Fort St. James Travel North, Turn Left onto the Tachie Hwy., continue approximately 2 km the Arrow Bio Energy Plant road and travel approximately 7 km to the Mine Site.



**Geographic Coordinates of Mine: Latitude:** 54.4990000 **Longitude:**-124.2956200

**Maximum Annual Tonnage Extracted:**

1200.00 tonnes

## First Aid

**Proposed First Aid equipment on site:**

Level 3 Kit and Trained Individual

**Level of First Aid Certificate held by attendant:**

Occupational First Aid Level 3

## Description of Work Program

**Sufficient details of your work program to enable a good understanding of the types and scope of the activities that will be conducted:**

Excavation of Pit Run, Rock Crushing and Mechanical Screening, Rock Blasting

## Time of Proposed Activities

**Original Start Date:**

-

**Proposed Start Date:**

-

**Proposed Authorization End Date:**

-

## Access

**Access presently gated?**

No

## Present State of Land

**Present condition of the land:**

Active Quarry surrounded by a plantation.

**Type of vegetation:**

Rock outcrop surrounded by Pine Spruce Plantation within a previously harvested area.

**Physiography:**

Hill top topography upper slope on a macro scale. No watersheds within a zone of influence from the Mine Site.

**Current means of access:**

Existing resource road.



**Old Equipment:**

None

**Recreational trail/use:**

None

## Access to Tenure

**Do you need to build a road, create stream crossings or other surface disturbance that will not be on your tenure?**

No

## Land Ownership

**Application in a community watershed?**

No

**Proposed activities on private land?**

No

**Proposed activities on crown land?**

-

**Are any of the proposed activities in a park under an Act of British Columbia or of Canada or in an area of land established as a Provincial Heritage property under Section 23 of the Heritage Conservation Act?**

No

## Cultural Heritage Resources

**Are you aware of any protected archaeological sites that may be affected by the proposed project?**

No

## First Nations Engagement

**Have you shared information and engaged with First Nations in the area of the proposed activity?**

No



## Blasting

### Activities where blasting will occur

**The activities to which blasting is related:**

- Access roads, trails, heli pads, air strips and boat ramps
- Camps, Bldgs, Staging Areas and/or Fuel / Lubricants Storage
- Exploration Surface Drilling
- Mechanical Trenching / Test Pits
- Seismic
- Surface bulk Sample
- Underground Exploration including Underground Bulk Sampling
- Sand & Gravel / Quarry Operations

### On-Site Storage Explosives

**Are you proposing to store explosives on site?**

No

**Describe how the explosives will get to site:**

Transport will be carried out by the expert hired to do the blasting.

## Sand and Gravel/Quarry Operations

### Soil Conservation

**Average Depth of Overburden:**

0.10 m

**Average Depth of topsoil:**

0.10 m

**Measures to stabilize soil overburden stockpiles and control noxious weeds**

Overburden and topsoil will be stockpiled and seeded to grass until required for reclamation. Grass seeding will control the potential for invasive weeds to establish.

### Land Use

**Is this site within the Agricultural Land Reserve?**

No

**Permit Application Number:**

-

**Does the local government have a soil removal bylaw?**

No



**Official community plan for the site:**

-

**Current land use zoning for the site:**

-

**Proposed end land use is:**

-

**Estimate total mineable reserves over the life of the mine:**

--

**Estimate annual extraction from site:**

--

### Activities

Activity	Disturbed Area (ha)	Merchantable Timber Volume (m <sup>3</sup> )
Crushing	1.05000	0.00
Excavation of Pit Run	0.25000	0.00

**Is the work year round or only seasonal?**

Seasonal

**Brief description of operation, including proposed work schedule:**

-

### Reclamation Program

**Describe the proposed reclamation and timing for this specific activity:**

The site will be reclaimed by contouring to 3:1 or less and re-distribute the stockpiled surface material. The extraction site will then be re-vegetated to a Forestry grass mix to ensure positive drainage. To be carried out when resource extraction is complete.

**If backfilling of pits or pit slopes is proposed in the final configuration of reclamation, details of materials to be used and placement procedures:**

-

**Estimated Cost of reclamation activities described above:**

\$5,000.00

**Will progressive reclamation be carried out?**

No

**Maximum unreclaimed disturbance at any given time:**

-ha



### Groundwater Protection

**Average depth to the high groundwater table at the proposed excavation:**

- m

**Elevation of the groundwater table was determined from:**

- Existing area wells ramps
- Test pits
- Test wells drilled for this purpose
- Other: Visual Field Observation

**Measures proposed to protect groundwater from potential impacts of the proposed mining activity:**

The site is predominantly a bedrock exposure which demonstrates no influence from ground water.

### Impact Minimazation

**Shortest distance between proposed excavation to nearest residence:**

7000.00 m

**Shortest distance between proposed excavation to nearest residential water source:**

7000.00 m

**Measures proposed to prevent inadvertent access of unauthorized persons to the mine site:**

The access road can be gated.

**Measures proposed to minimize the noise impacts of the operation:**

None, the site is approximately 7000 m from any buildings or daily human activity.

**Measures proposed to minimize the dust impacts of the operation:**

None, the site is approximately 7000 m from any buildings or daily human activity.

**Measures proposed to minimize visual impacts of the operation:**

None, the site is near the highest point in the area and surrounded by other rock outcrops. The site is not visible from any well traveled view points.

### Equipment

Quantity	Description	Capacity
1	Excavator	330
1	Read Screen All Screen	60-150 m3 / hour

### Other Information

**Is there any other information you would like us to know?**

-



## Summary of Reclamation

**Total merchantable timber volume (m<sup>3</sup>):**

0.00

Activity	Total Affected Area (ha)	Estimated Cost of Reclamation
Sand and Gravel / Quarry Operations	1.30000	\$5,000.00

**Unreclaimed disturbance from previous year (ha):**

0

**Disturbance planned for reclamation this year (ha):**

0

## Application Contacts

Type	Name	Email	Phone	Address
Agent	CSN Consulting	cns@bcgroup.net	250-612-7496	5380 Sanders Prince George BC V2K5X1
Permittee	Canyon Tree Farms Inc.	harryo@ctfarms.ca	250-996-7015	Box 2148 Fort St James BC V0J1P0
Mine Manager	Harry Hooke	harryo@ctfarms.ca	250-996-1728	PO Box 2148 Fort St James BC V0J1P0





## Permit Package

File Name	Category	Description	Date Uploaded
1641067-2022-01 Notice of Work Form 2022-06-01.pdf	Notice of Work Form	This document was automatically created when Verification was completed.	Thursday, June 2, 2022 12:20 AM



## Regional District of Bulkley-Nechako Rural/Agriculture Committee

**To:** Chair and Committee  
**From:** Danielle Patterson, Senior Planner  
**Date:** July 21, 2022  
**Subject:** Notice of Work File No. 1300257-2022

---

### RECOMMENDATION

(all/directors/majority)

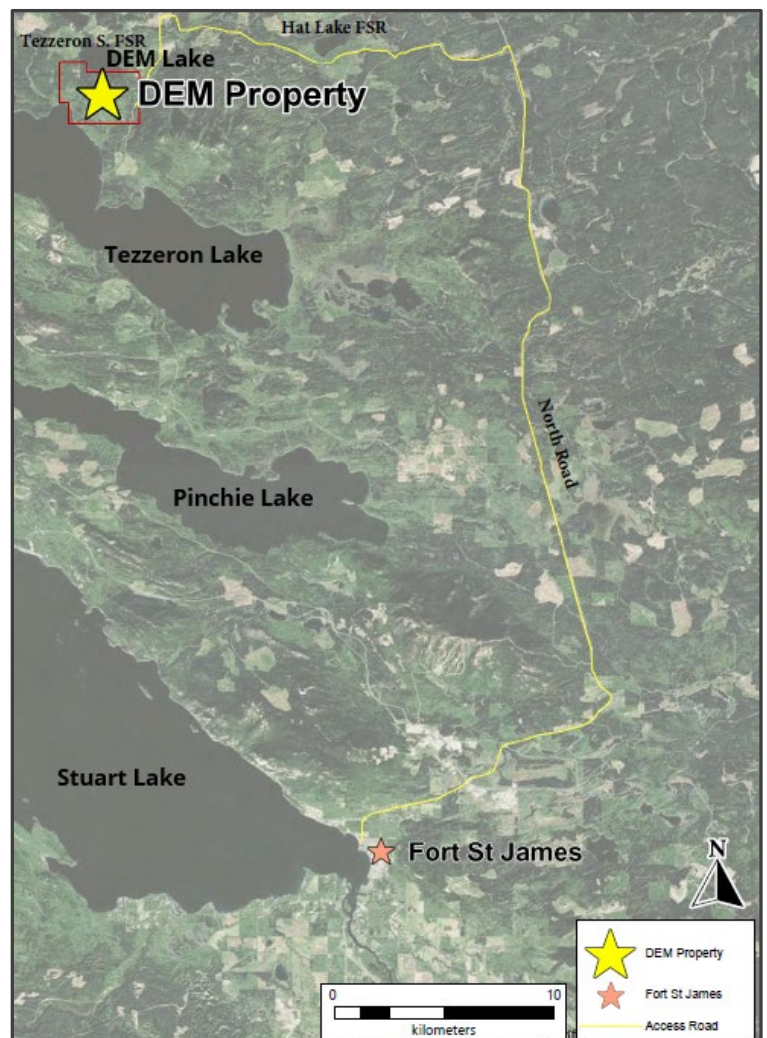
That the attached comment sheet be provided to the Ministry of Energy, Mines and Low Carbon Innovation as the Regional District's comments on Notice of Work File No. 1300257-2022.

---

### DISCUSSION

The Regional District has received a Mines Act Permit Notice of Work referral for a new permit to start the DEM diamond drilling operation. The applicant proposes exploratory diamond drill sites and a worker camp. The site is approximately 55 km northwest of the District of Fort St James, located between Tezzeron and Dem Lakes. It is 15.5 km from the nearest residence and 11 km from the John Prince Research Forest.

The permit request is for up to 50 diamond core drilling sites over a five-year period and up to 16 during 2022. This includes a 3.6 km exploration trail, 35 km of IP (induced polarization) lines, a staging area with core/cut shack, and a 19-person camp (see attached site map). The camp proposal includes canvas tents, outhouses, pumping and filtering grey water into local soil, and using an unnamed creek for water.

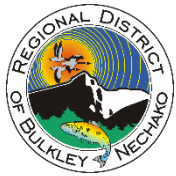


Waste disposal would be done by incinerator for burnable waste, with additional waste trucked offsite.

A 1.5 ha of land would be disturbed, and no material extraction is proposed in the permit.

#### **ATTACHMENTS**

- Comment Sheet
- Application

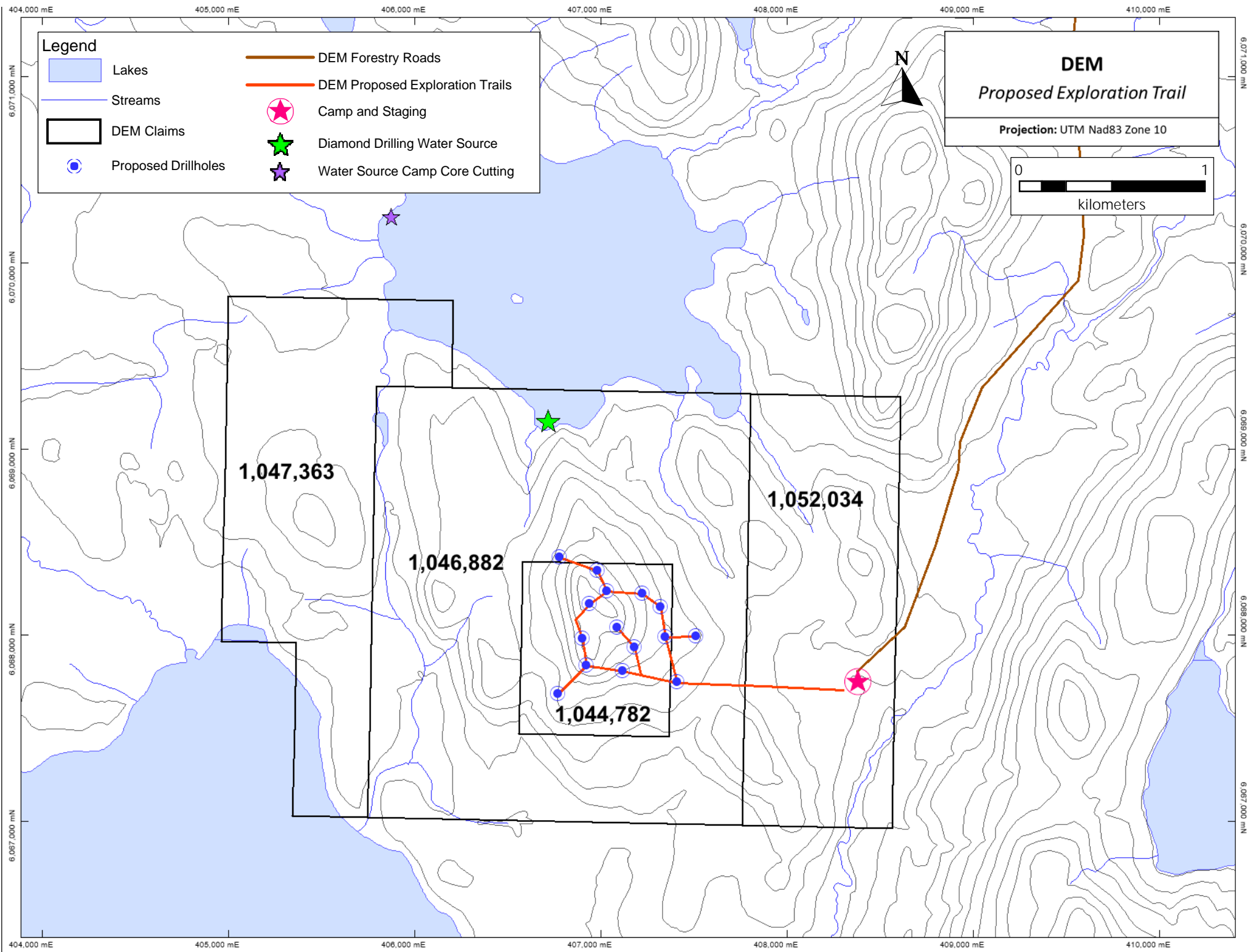


## Regional District of Bulkley-Nechako

### Comment Sheet on Mines Notice of Work File No. 1300257-2022

---

<b>Electoral Area:</b>	C
<b>Agent/Applicant:</b>	Andrew Mitchell for C.J. Greig and Associates Ltd.
<b>Existing Land Use:</b>	Forested
<b>Zoning:</b>	None
<b>Official Community Plan Designation:</b>	None
<b>Proposed Use Comply with Zoning:</b>	Not applicable
<b>If not, why?</b>	Not applicable
<b>Agricultural Land Reserve:</b>	Not within the ALR
<b>Access Highway:</b>	Tezzeron South Rd via Hat Lake FSR
<b>Building Inspection:</b>	Outside the building inspection area
<b>Fire Protection:</b>	Outside the rural fire protection area
<b>Other comments:</b>	None





# Notice of Work (No. 1300257-2022-01)

**Tracking Number:** 100365818

**Last Updated Date UTC:** 2022-06-23

**Exported Date UTC:** 2022-06-23 17:20

## Applicant Information

**If approved, will the authorization be issued to an Individual or Company/Organization?**

Company/Organization

**Relationship to Individual or Company/Organization?**

Consultant

## Application Information

**Type of Notice of Work:**

Mineral

**Is this a New Permit or an Amendment to an existing permit for this property?**

New Permit

**Mine Number:**

1300257

## One Year, Multi-Year or Multi-Year Area-Based Permit

**Type of permit to apply for:**

Multi-Year, Area-Based Permit

**Is this the first year of a multi-year, area based application?**

Yes

## Mine Information

**Name of Property:**

DEM

**Tenure Number(s):**

1047363, 1046882, 1044782, 1052034

**Crown Grant / District Lot Number:**

-

**Directions to Site from nearest municipality:**



Access to the property is via a series of resource roads emanating for the community of Ft. St. James. Travelling northward along the North Road for some 39 kilometers. At the Hat Lk FSR one travels westward for some 16 kilometers, and then southward on the Tezzeron S. Rd.

**Geographic Coordinates of Mine: Latitude:** 54.7520190 **Longitude:**-124.4452790

**Maximum Annual Tonnage Extracted:**

0.00 tonnes

## First Aid

**Proposed First Aid equipment on site:**

Level 3 first aid kit with spine board

**Level of First Aid Certificate held by attendant:**

Occupational First Aid Level 3

## Description of Work Program

**Sufficient details of your work program to enable a good understanding of the types and scope of the activities that will be conducted:**

The program will consist of up to 50 diamond drill sites. The work program will consist of up to 35 line kilometres of IP over the property. IP lines conducted below tree-line will be brushed (no line cutting will be done). A proposed staging, camp and core/cut shack area will be situated in the southeastern part of the claim block. 3.6 km of exploration trail is being proposed to support drilling activities.

## Time of Proposed Activities

**Proposed Start Date:**

2022-05-01

**Proposed Authorization End Date:**

2022-12-30

## Access

**Access presently gated?**

No

## Present State of Land

**Present condition of the land:**

The property has not been subject to logging, outside of a small cut block in the southeastern part of the property.

**Type of vegetation:**



The property is heavily forested with spruce, fir and pine. Low lying areas are generally occupied by lakes, ponds and swamps.

**Physiography:**

The area is predominantly covered by glacial till, with minor glaciofluvial and glaciolacustrine deposits. The terrain is characterized by low rolling hills with swamps and lakes in the low-lying areas. Elevations increase toward the northeast.

**Current means of access:**

Access to the property is via a series of resource roads emanating for the community of Fort St. James. Travelling northward along the North Road for some 39 kilometers. At the Hat Lk FSR one travels westward for some 16 kilometers, and then southward on the Tezzeron S. Rd.

**Old Equipment:**

None

**Recreational trail/use:**

None

## Access to Tenure

**Do you need to build a road, create stream crossings or other surface disturbance that will not be on your tenure?**

No

## Land Ownership

**Application in a community watershed?**

No

**Proposed activities on private land?**

No

**Proposed activities on crown land?**

-

**Are any of the proposed activities in a park under an Act of British Columbia or of Canada or in an area of land established as a Provincial Heritage property under Section 23 of the Heritage Conservation Act?**

No

## Cultural Heritage Resources

**Are you aware of any protected archaeological sites that may be affected by the proposed project?**

No





## First Nations Engagement

Have you shared information and engaged with First Nations in the area of the proposed activity?

No

## Camps, Buildings, Staging Areas, Fuel/Lubricant Storage

### Camps

Name	People in Camps	Number of Structures	Quantity of Water	Disturbed Area (ha)	Timber Volume (m <sup>3</sup> )
<p>Camp A</p> <p><b>Description of Structures:</b> 15 - 4 m x 5 m canvas or weatherhaven tents on plywood floors for bunk houses, 1 First Aid and 1 Office (both 4 m x 5 m canvas or weatherhaven), 1 - 20 x 5 m dry or kitchen tent (structure already built from previous camp), 2 - 10 x 5 m dry tents (one of which the structure is already built)</p> <p><b>Waste Disposal:</b> Burnable materials are disposed in a 2 stage burning metal incinerator, non-burnable are trucked offsite to a waste disposal site.</p> <p><b>Sanitary Facilities:</b> Outhouses are placed over pits at least 0.5m deep, to be soil covered after completion of project. Grey water from the kitchen and dry is piped to sumps and filters into soil.</p> <p><b>Water Supply:</b> Small creeks draining the property.</p>	19.00000	20.00000	0.01	0.50000	0.00

Notified the local Health Authority as you have a camp for more than 5 people planned?

No

Consent given to share name, address and contact information with the local Health Authority?

Yes

### Buildings

Name	Puopse	Structure	Disturbed Area	Timber Volume
------	--------	-----------	----------------	---------------



			(ha)	(m <sup>3</sup> )
Bunk House	House crew members (max 4 per tent)	Structure and dimensions: 4m x 5m canvas tent or weatherhaven	0.01000	0.00
Kitchen	Cook food and dining room for camp workers	20m x 5m wooden structure - already built from previous camp	0.01000	0.00
Dry	Hang wet gear, showers and sinks for cleaning	10m x 5m - 1 structure already built, but will need to put up a second dry using canvas or weatherhaven	0.01000	0.00
Generator Shack	House generator to supply power to camp	4m x 4m wooden shed with sloped roof	0.01000	0.00
First Aid	Store first aid supplies, administer first aid if required	5m x 4m canvas tent or weatherhaven	0.01000	0.00
Office	Geology Office	4m x 5m canvas tent or weatherhaven	0.01000	0.00

### Staging Areas

Name	Disturbed Area (ha)	Timber Volume (m <sup>3</sup> )
Staging A	0.25000	0.00

### Fuel

**Do you propose to store fuel?**

Yes

**Volume of fuel stored:**

25000.00



**Storage Method:**

- Bulk
- Barrel

### Reclamation Program

**Proposed reclamation and timing for this specific activity:**

If canvas tents are used, the tents and all equipment will be stored in the wooden structures over winter. The plywood floors and wooden structures may be left in place if it is anticipated that further work will be undertaken in the next season. If weatherhaven's are used, they will be winterized and left up over winter. All equipment will be stored in the wooden structures over winter to be used the following year.

**Estimated Cost of reclamation activities described above:**

\$6,000.00

### Exploration Surface Drilling

#### Drilling

Activity	Number of Sites	Disturbed Area (ha)	Merchantable Timber Volume (m <sup>3</sup> )
Diamond Drilling - Surface	50	0.50000	30.00

### Support of the Drill Program

**The drilling program will be:**

Ground supported

### Reclamation Program

**Describe the location of the Core Storage:**

Core boxes will be stacked on pallets with crossed rows and strapped by metal banding to prevent tipping, no higher than 10 boxes in height. The core boxes for all holes will be stored together. Core will be stored at Lat: 54.748163, Long: -124.424713.

**Proposed reclamation and timing for this specific activity:**

Reclamation of drill sites, that are expected to be about 80 m2 each, will consist of plugging any holes that are making water, dismantling wooden drill pads, back-filling drill-return cuttings sumps and smoothing any rutted areas. Any non-biodegradable materials will be removed. Any trees that may have been felled will be bucked into 2 m lengths and laid flat on the ground. The reclamation will be done at the end of the drilling program in November or December, prior to leaving the job site.

**Estimated Cost of reclamation activities described above:**



\$6,000.00

## Access Roads, Trails, Helipads, Air Strips, Boat Ramps

### Activities

Activity	Number of sites	Length (km)	Disturbed Area (ha)	Timber volume (m <sup>3</sup> )
Exploration Trail - New		3.60	1.10000	15.00

## Bridges, Culverts, and Crossings

**Are you proposing any bridges, culverts, and crossings?**

No

**Describe the changes and reference the locations needed on the map later:**

-

## Reclamation Program

**Proposed reclamation and timing for this specific activity:**

New trails will be reclaimed as work progresses. Any wood cut will be bucked and scattered over the trail to promote growth.

**Estimated Cost of reclamation activities described above:**

\$5,000.00

## Cut Lines and Induced Polarization Survey

### Exploration Grid

Total Line (km)	Disturbed Area (ha)	Merchantable Timber Volume (m <sup>3</sup> )
35.00	0.00000	0.00

## Reclamation Program

**Proposed reclamation and timing for this specific activity:**

IP lines will be established without cut lines, therefore, no reclamation will be required.



**Estimated Cost of reclamation activities described above:**

\$0.00

## Settling Ponds

**Describe the wastewater treatment facility (settling pond design, recycling, distance from creek, etc.):**

Mid-stream at nearest suitable water source to hole location. A 1m wide by 1m long by 1 m deep sump will be hand excavated at each drill site. For the kitchen and dry, grey water will be diverted into sumps of sufficient capacity (approx. 10 m3), and grey water will exfiltrate into the soil.

### Activities

Pond ID	Width (m)	Length (m)	Depth (m)	Disturbed Area (ha)	Merchantable Timber Volume (m <sup>3</sup> )	Water Source	Construction Method
Source A - Work Camp	1.00	1.00	1.00	0.01000	0.00	Creek	None
Diamond Drilling	1.00	1.00	1.00	0.01000	0.00	DEM Lake	None

**Disposal of fines from cleanout (i.e. use as a subsoil material):**

At each drill site a small sump, approximately 1m x 2m, will be dug and channeled to collect drill return water flowing out of the drill casing, allowing fine rock cuttings to settle in the sump. Care will be taken to keep sediment-laden drill water from entering streams or ponds. Grey water from the camp kitchen and dry will also be diverted into sumps of sufficient capacity (approx. 10m3), and the grey water will exfiltrate into the soil.

**Water from ponds will be:**

Recycled: No

Exfiltrated to Ground: Yes

Discharged to Environment: No

## Reclamation Program

**Proposed reclamation and timing for this specific activity:**

After completion of drilling, each site that will not be re-used for additional drilling will be reclaimed and the sumps will be backfilled with the stockpiled soil. After completion of the drilling program the camp will be removed and the camp sump will be backfilled with the stockpiled soil.

**Estimated Cost of reclamation activities described above:**

\$2,000.00

## Equipment

Quantity	Description	Capacity
1	Drill	Hydracore 2000
2	Power Supply	25KW
2	Pump	Honda WT200 Water Pump
1	Excavator	D6

## Other Information

### Is there any other information you would like us to know?

Water intake locations must be on tenure and within the MYAB exploration boundary.

## Summary of Reclamation

### Total merchantable timber volume (m<sup>3</sup>):

45.00

Activity	Total Affected Area (ha)	Estimated Cost of Reclamation
Cut Lines and Induced Polarization Survey	0.00000	\$0.00
Settling Ponds	0.02000	\$2,000.00
Exploration Surface Drilling	0.50000	\$6,000.00
Camps, Buildings, Staging Area, Fuel/Lubricant Storage	0.81000	\$6,000.00
Access Roads, Trails, Helipads, Airstrips, Boat Ramps	1.10000	\$5,000.00

### Unreclaimed disturbance from previous year (ha):

0

### Disturbance planned for reclamation this year (ha):

0