

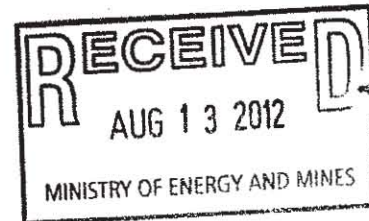


Ministry of  
Energy and Mines

August 13, 2012

File: 14675-20-0700098

Dave Vernon  
Resource Manager  
Ekset Contracting Ltd.  
100 - 19429 54TH AVE  
Surrey BC V3S 7X2



Dear Mr. Vernon:

**Re: Amended Mines Act Permit G-7-118  
Bell Road (38297)**

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The above noted permit is amended to set the pit floor elevation at 4.5 metres geodetic C which is 2 metres above the high water table. This is in accordance with the information provided by David Kneale, P.Geo, Senior Hydrogeologist with Active Earth Engineering.

All other conditions of permit G-7-118 remain unchanged.

Sincerely,

Ed Taje  
Senior Inspector of Mines

Encl: Amendment request

Cc: Reclamation Section, Victoria

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Ministry of Energy and Mines

Mailing Address:  
PO Box 9395 Stn Prov Govt  
Victoria, BC V8W 9M9  
Telephone: (250) 387-4825  
Facsimile: (250) 953-3878

Location:  
6th Floor  
1810 Blanshard Street  
Victoria

0700098



August 9, 2012

Project No. 366

Ministry of Energy and Mines  
PO Box 9320 Stn Prov Govt  
Victoria BC  
V8W9N3

**ATTENTION:** Mr. Ed Taje  
Senior Inspector of Mines

**REFERENCE:** Water Table Elevation  
38447 Bell Road, Mission, BC  
Permit No. G-7-118

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The elevation of the seasonal high water table previously determined to be 7.6 m geodetic. The recommended level of gravel extraction is 2 m above the high water table at 9.6 m elevation.

We trust that this provides the information you require. If you have any questions, please contact the undersigned.

Yours Truly,  
**ACTIVE EARTH ENGINEERING LTD.**

A handwritten signature in cursive script, appearing to read 'Kneale'.

David Kneale, P.Geo.  
Senior Hydrogeologist

Distribution - Ekset Contracting Ltd.

PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF ENERGY AND MINES

**SAND AND GRAVEL PERMIT**  
**APPROVING WORK SYSTEM AND RECLAMATION PROGRAM**  
(Issued pursuant to Section 10 of the **Mines Act** R.S.B.C. 1996, C.293)

Permit: **G-7-118**

Mine No.: **0700098**

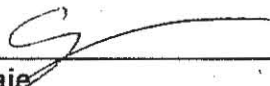
Issued to: **Ekset Contracting Ltd.**  
**10200 Sylvester Road**  
**Mission BC V2V 4J1**

for work located at the following property:

**Bell Road (38297)**

This approval and permit is subject to the appended conditions.

Issued February 17, 1993  
Amended March 13, 2008  
Amended April 12, 2012

  
\_\_\_\_\_  
**Ed Taje**  
**Senior Inspector of Mines**

## PREAMBLE

Notice of intention to commence work on a sand and gravel pit, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the Notice of Work dated Thursday, July 7, 2011 was filed with the Inspector of Mines on Thursday, July 7, 2011. Notice of such filing was published in the Abbotsford News on October 6, 2011 and in the Gazette on September 29, 2011.

This permit contains the requirements of the Ministry of Energy and Mines for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy and Mines will be made in consultation with other ministries.

## CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### 1. Reclamation Security

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance securities in the amount of thirty thousand dollars (\$30,000). The security will be held by the Minister of Finance for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests, Lands and Natural Resources. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.



- (c) The Permittee shall conform to all Ministry of Environment approval, licence and permit conditions, as well as requirements under the **Wildlife Act**. Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: **Agriculture**.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be re-vegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

- (a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- (b) No topsoil shall be removed from the property without the specific written permission of the Inspector of Mines.

6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the Inspector of Mines.

7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.

- (b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:
  - (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
  - (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the Inspector of Mines, to demonstrate that reclamation objectives are being achieved.



14. Alterations to the Program

Substantial changes to the program must be submitted to the Inspector of Mines for approval.

15. Notice of Closure

Pursuant to Part 10.6.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the Inspector of Mines not less than seven days prior to cessation of work.

16. Annual Report

Annual reports shall be submitted in a form and containing the information as and if required by the Inspector of Mines.

17. Site Stability

- a) The inspector shall be advised in writing at the earliest opportunity of any unforeseen conditions that could adversely affect the extraction of materials, site stability, erosion control or the reclamation of the site.
- b) The stability of the slopes shall be maintained at all times and erosion shall be controlled at all times.
- c) The discovery of any significant subsurface flows of water, seeps, substantial amounts of fine textured, soils, silts and clays, shall be reported to the inspector as soon as possible and work shall cease until the inspector advises otherwise.

**SPECIAL CONDITIONS:**

- 1. This permit limits production to 100,000 Bank Cubic Meters annually.
- 2. The manager shall forward to the Inspector a copy of the Annual Report and the Health and Safety Assessment form by March 31 of each year.
- 3. The Mine Manager, or in their absence a Designate, shall allow Employees of other Provincial Ministries holding authorizations related to Compliance and Enforcement duties onto the mine site subject to the following conditions:

- a. the Provincial Employee must present the appropriate Ministry identification; and
    - b. must clearly state that they are acting on behalf of an Inspector of Mines;
    - c. they must be given a site orientation as required by the Health & Safety, and Reclamation Code;
    - d. they must sign-in and sign-out as acknowledgement of being on site;
    - e. they must be accompanied at all times by the Mine Manager, or qualified person appointed by the Manager, and shall take all necessary measures to ensure the safety and well being of the individual(s); and
    - f. this condition is not applicable to other Provincial Legislation.
  4. In the event that an archaeological site is encountered during the course of the approved mining activities, the program shall be suspended or modified in such a manner so as to ensure that the site is not damaged, desecrated or otherwise altered and the occurrence shall be reported immediately to the Archaeological Branch of the Ministry Natural Resource Operations. Work shall not be resumed until authorized by the joint Ministries.
- An Archaeological Chance Find Procedure (ACFP) for this site shall be developed within 3 months of the date of this permit:
- a. A copy of the procedure shall be posted at the Mine Site, and all workmen shall be trained in the implementation of this procedure.
    - b. A copy of this procedure shall be filed with the Inspector.
  5. The manager shall, prior to starting operations, notify the Inspector of their anticipated start date.
  6. The operator shall ensure that the proposed exploration activities do not affect nesting birds, especially under Section 34 of the *Wildlife Act*. Typical species of interest would be Heron, Eagle, Peregrine Falcon, Spotted Owl and primary cavity nesters.
  7. All work shall be suspended during any forest closures relating to extreme fire hazard conditions as determined by the Ministry of Forest, Lands and Natural Resources. Firefighting equipment shall be maintained on the site in accordance with the Forest Fire Prevention and Suppression Regulation.
  8. Topsoil and overburden shall be stockpiled, protected from erosion and used to rehabilitate the site upon completion of mining. The area shall be replaced with native species ecologically suited for the site.



9. All site access shall be secured with a locking gates and signage provided indicating the operators name and emergency contact number, as well as all necessary safety advisories.
10. Property boundaries, right of ways, limits of pit development, environmental setbacks, etc shall be marked prior to commencing operations. Such marking shall be maintained over the course of pit operations and all persons working on the site are instructed as to the meaning of the markings.
11. Roads created or utilized within the permitted area shall be provided with adequate drainage and appropriately ditched as part of the site water management plan.
12. Open trenches and pits/ponds shall be fenced or otherwise
13. The site shall not be used for any other purpose than that described in the Notice of Work. Disused or damaged equipment shall not be stored on site and the site shall not be used for the disposal of items including but not restricted to, garbage, wood waste, toxic materials, and petroleum waste.
14. Suitable measures shall be taken to protect against inadvertent access to the settling pond(s), wells, trenches etc.
15. Unless otherwise approved, this permit does not authorize the importation of any fill material.
16. If, for the purpose of reclamation, imported material is required, the manager shall submit an application for an amendment.
17. The Permittee shall under take monitoring programs, as directed by an Inspector of Mines to demonstrate and ensure all environmental and reclamation objectives are achieved.
18. Timber debris shall not be buried or placed as pit backfill but shall be disposed of in an appropriate manner and at the earliest possible opportunity.
19. Machinery operating near a watercourse and/or settling pond shall be in good repair and free of oil leaks and free of surface oil and grease

20. Absorbent pads and spill kits of adequate size shall be maintained on site during the course of operations and the manager shall ensure that all employees are trained in their use. The absorbent pads and spill kits shall be located in all areas of the mine where work is being conducted.
21. Suitable methods of dust control, including water sprays, shall be utilized to mitigate dust created from mining/processing operations including haulage on site. In addition, a log book shall be kept to record the date, time and person whom applies the dust control. If multiple methods and/or applications are required, each instance shall be logged.
22. The Permittee shall immediately contain and implement remedial measures for any spill of hydrocarbon or other deleterious substance at the mine site. Any such occurrence shall be reported to the District Inspector, and to the Provincial Emergency Program in accordance with the Spill Reporting Regulation of the Environmental Management Act. Contaminated materials shall be disposed of in a manner acceptable to the Regional Waste Manager. Any spill of hydrocarbons requiring reporting under the Transportation of Dangerous Goods regulations shall be considered a Dangerous Occurrence.
23. All waste and refuse shall be removed from the site weekly.
24. Stationary engines shall be provided with drip pans that shall be cleaned on a regular basis.
25. Bulk storage of fuel onsite is not permitted by this permit.
26. An area required for the refuelling of equipment shall be designed which consists of an impermeable layer or barrier to mitigate the introduction of deleterious substances into the surrounding environment.
27. A water management and monitoring system shall be developed by a registered professional in the appropriate discipline to protect the adjacent aquifer. This shall include the monitoring of one or more of the wells that are located at 38447 Bell Road. If the construction of structures is required to mitigate the release of fugitive waters, they must be constructed to a standard that will withstand a 1 in 200 year weather event. The program shall address but not be limited to the requirements below;

- a. The high ground water table shall be re-established by the creation or use of a new or existing well on or suitably adjacent to the mining area. The pit floor shall be maintained at 10 metres above the identified high ground water table.
  - b. Continuous water level monitoring shall be undertaken in advance of extraction, and:
    - i. A monitoring well shall be established within the mine, defined in the mining sequence, and records shall be kept of water levels.
  - c. A minimum of 8 (2 each season) readings shall be taken at each well, the records shall be kept at the mine, and made available to an inspector on request.
28. Sediment laden water resulting from mining activities, including surface drainage, shall not be allowed free access to creeks or water courses but shall be suitably contained and /or treated to produce final effluent not exceeding 25 mg/l total suspended solids prior to discharge.
29. Machinery shall not be operated in a water course or riparian area.
30. The Permittee shall ensure that a buffer is maintained between any watercourse or riparian area and the area of excavation. (Refer to the Health, Safety and Reclamation Code for Mines in British Columbia, Part 9, Table 9.1, Riparian Setback Distances.)
31. The manager shall establish a suitable system to mitigate fugitive noise around the crushing and screening equipment.
32. The manager shall maintain records of all public complaints received.
33. If this mine ceases operation for a period longer than one year, the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.
34. To conduct any activities not described Notice of Work, or within the approved permit, the permittee shall submit a written application.

35. Upon completion of resource extraction activities: unless otherwise stated by the Chief Inspector;

- i. all machinery, equipment and building superstructures shall be removed,
- ii. concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- iii. all scrap material shall be removed from the site and disposed of in an appropriate manner.
- iv. Pit walls, residual stockpiles and waste dumps shall be contoured to slopes no steeper than 2:1 (2 horizontal to 1 vertical).
- v. Natural drainages shall be re-established.
- vi. Access roads and the pit floor shall be ditched and scarified where applicable.
- vii. Enclosed drainage structures shall be removed and replaced with stable self maintaining installation.




**Ministry of Energy, Mines and  
Petroleum Resources**
**Sand and Gravel/Quarry Operation  
Notice of Work and  
Reclamation Program**

The information on this form and any supporting documents are subject to the *Freedom of Information and Protection of Privacy Act*. The information requested on this form is collected and used for the purpose of administering the *Mines Act* of British Columbia and the *Health, Safety and Reclamation Code for Mines in British Columbia*. The *Mines Act* authorizes the collection of the requested information on this form. The completed form is routinely available to the public. Questions about how the *Freedom of Information and Protection of Privacy Act* applies to the information collected on this form can be directed to the Office of the Information and Privacy Commissioner—phone: (250) 387-5629; fax: (250) 387-1696; mailing address: PO Box 9038 Stn. Prov. Govt. Victoria, British Columbia, V8W 9A4

Application is for: ☒ Sand and Gravel Mine ☐ Rock Quarry  
 This application is for (check one):  
☐ Development ☒ Amendment to existing permit Permit # G-7-118  
 Application is being made by:  
☐ Owner (Private property)  
☒ Operator/Agent (Person or company making application on Crown land or on private property not owned by applicant)  
 Name DAVE VERNON E-mail Address: d.vernon@shaw.ca  
 Company (if applicable) EKSET CONTRACTING LTD  
 Address 100-19429-54<sup>th</sup> AVENUE  
 City SURREY Bus. Phone (604) 220-4677  
 Province BC Postal Code V3S 7X2 Fax (604) 534-6325

**LOCATION INFORMATION - Maps are mandatory under Schedule A**

Name of Mine (What will the operation be called when in production?):  
 Legal Description of Property: East Half of the South East 1/4 Section 4, Twp. 21,  
NEW WESTMINSTER DISTRICT, Except Parcel 'A', Plan 5133 NWD, PID 013-421-620  
 Street Address of Property, if applicable: # 38447 BELL ROAD  
MISSION BC  
 Access route from nearest town to property: 7 km East of Mission on Hwy 7 turn left on Hawkins  
Pickle Road go for 4 km then turn left on Canfor Logging Road to Bell Road.  
 B.C. Geographic System Map Sheet Number(s) [i.e. TRIM 093L/006] 092 G1 MISSION  
 Northing: 5447900 N Easting: 561,100 E UTM Zone: 10  
 or NTS Map Sheet Number(s) [i.e. NTS 093L/14E]: 092 G 020  
 Latitude: 49° 10' 08" Longitude: 122° 09' 01"

**OWNERSHIP (Complete a, b or c if the land is not privately held by applicant)**
**a) Proposed mine is on private land:**

Name of property owner S22  
 Address S22  
 City S22 Bus. Phone ( )  
 Province BC Postal Code Fax ( )

Signature of owner agreeing to the mining operation proposed in this application (or attach letter of authorization signed by owner):

Name: Letter of Authorization attached Date: **RECEIVED**

**b) Proposed mine is on Crown land:**

Assets and Lands Corporation (BCAL) file reference number: N/A  
 License of Occupation/Lease number: N/A Expiry date of License/Lease (y/m/d): JUL 07 2011 76888

**c) Proposed mine is a mineral quarry (as defined under the Mineral Tenure Act):**

What mineral is proposed to be mined? N/A  
 Mineral Claim/Lease Tenure Number(s): N/A  
 Ministry Of Forests, Lands and Natural Resource Operations  
 FrontCounter BC  
 Log No. 31335 NRD  
SR

**MANAGEMENT**

Correspondence regarding this application should be sent to: ☐ Owner or ☒ Operator/Agent  
 The mine manager (*Mines Act* Sections 21 and 22) responsible for management and operation of the mine will be:  
 Name: DAVE VERNON Bus. Phone: (604) 220-4677



**LAND USE**

1) **Cultural Heritage Resources** (A cultural heritage resource is defined as "an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people". B.C. law requires the conservation of these resources. It is the responsibility of the applicant to identify these resources.

Are you aware of any cultural heritage resources present on the property?

- ☐ Yes - please attach a plan for the conservation of cultural heritage resources on the property  
☒ No - If cultural heritage resources are discovered while mining, you are required to report them to the Mining Division.

2) **Soil Conservation**

Average depth of overburden (material, including topsoil, overlying sand, gravel and/or rock): \_\_\_\_\_ cm, or 13.0 m

Average depth of topsoil (Surface to maximum rooting depth of plants, plus 15 cm.): 15 cm, or 0.15 m

Measures to stabilize soil/overburden stockpiles and control noxious weeds:

SOIL/OVERBURDEN PLACED IN BERM STOCKPILES - SEEDED  
TO GRASS - SPRAY FOR NOXIOUS WEEDS.

Topsoil must be conserved for reclamation of the mine site.

Removal of topsoil from the site requires written approval of the Inspector

3) **End Land Use**

Is the site within the Agricultural Land Reserve?

- ☒ No ☐ Yes - authorization for soil removal from the Land Reserve Commission and Regional District must be obtained. Provide permit application number if available: \_\_\_\_\_

Is the site within the Forest Land Reserve?

- ☒ No ☐ Yes - authorization from the Land Reserve Commission must be obtained

Is the site within a Tree Farm License?

- ☒ No ☐ Yes - state the TFL number: \_\_\_\_\_

Name of TFL holder: \_\_\_\_\_

Does the local government have a Soil Removal Bylaw?

- ☐ No ☒ Yes - please be aware that a Soil Removal Permit may be required by the local government

Official Community Plan designation for the site is: LIMITED USE

Current land use zoning for the site is: R.3

Proposed end land use is: AGRICULTURE

4) **Reclamation of Site** (If space provided below is insufficient, please attach separate sheet describing proposed reclamation)

Reclamation measures and schedule proposed to achieve end land use objectives as per part 10.7.4 and 10.7.5 of the Health Safety and Reclamation Code for Mines in British Columbia (hereafter referred to as the Code):

EXCAVATE SOIL/OVERBURDEN, PLACE IN BERM  
STOCKPILES - RETURN OVER BACKFILLED PIT AREA.  
CONTOURS AT FINAL RECLAMATION TO MATCH  
EXISTING GROUND PROFILE.

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

BACKFILLING OF PIT - WITH APPROVED  
INSPECTED SOIL & OVERBURDEN MATERIAL CERTIFIED  
BY A. P. Ag. PRIOR TO PLACEMENT



**MINE DEVELOPMENT PLAN** (Maps are mandatory - please refer to Schedule A)

Unless otherwise required by the Inspector, complete the following mine development plan and prepare development maps and cross sections based on a period of 5 years or less. Mines operating for longer than 5 years, may be required to file updated Notices of Work every 5 years over the life of the mine at the discretion of the District Inspector.

Proposed start date (y/m/d): 2011/10/15

Proposed finish date (y/m/d): 2017/12/31

The mining operation will generally be (check one)

☒ Continuous (operates throughout the year)

☐ Seasonal, usually operates from \_\_\_\_\_ to \_\_\_\_\_

☐ Intermittent (occasionally operates with extended periods of inactivity)

Estimate total mineable reserves over the life of the mine: 1,115,400 tonnes, or 514,000 m<sup>3</sup>

Estimated annual extraction from site: 217,000 tonnes/yr, or 100,000 m<sup>3</sup>/yr

Application must be made to the Environmental Assessment Office if estimated extraction for sand/gravel production is 500,000 tonnes/yr. or 1,000,000 tonnes over 4 years; or if estimated extraction is 250,000 tonnes/yr. for quarried product.

Mineral quarries producing more than 1000 tonnes per year per claim require a mining lease.

Description of Work (Check appropriate boxes):

☒ Excavation of Pit Run

☐ Washing - please complete Schedule B

☒ Crushing

☐ Blasting - please complete Schedule C

☒ Mechanical Screening

☐ Timber Clearing \* - estimate volume of timber: \_\_\_\_\_ m<sup>3</sup>

\* Timber Clearing on Crown Land requires a Free Use Permit or License to Cut from the Ministry of Forests

Provide a brief description of operation, including proposed work schedule (i.e. hours, days of usual operation):

REMOVE TREES BY FORESTRY CONTRACTOR  
REMOVE SOIL/OVERBURDEN STOCKPILE FOR RECLAMATION  
EXCAVATE GRAVEL TO MINIMUM OF 2.0 M ABOVE  
SEASONAL HIGH WATER TABLE.  
BACKFILL PIT WITH IMPORTED APPROVED MATERIAL  
OPERATING HOURS 7:00 AM - 6:00 PM, 6 DAYS / WEEK

Equipment List: (Please attach separate list if space provided below is insufficient)

Type of Machine	Make/Model	Size/Capacity	# on Site
DOZER	CAT or similar	D 8 SIZE	1
EXCAVATOR	CAT "	2.0 m Bucket	1
FRONT END LOADER	CAT "	2.0 m "	1
EXISTING PROCESSING PLANT	INTERMITTENT ON SITE		1
OFFICE TRAILER -	WEIGH SCALE		1

**Surface Disturbance** - Information provided must be documented in development maps submitted under Schedule A

(Note that 10,000 m<sup>2</sup> = 1 hectare)

Existing Disturbance (Work areas, unreclaimed areas, access roads, etc.)

\_\_\_\_\_ m<sup>2</sup>, or NIL hectares

Proposed Mining Disturbance (New work areas, settling ponds, access roads, buildings, etc. to be developed within the time frame of this Notice of Work)

62,000 m<sup>2</sup>, or 6.2 hectares

Total Disturbed Area (Existing + Proposed Disturbance)

62,000 m<sup>2</sup>, or 6.2 hectares

Will any portion of this disturbance be reclaimed within the time frame of this Notice of Work?

☒ No

☐ Yes - state size of area to be reclaimed: \_\_\_\_\_ m<sup>2</sup>, or \_\_\_\_\_ hectares

Estimated Cost of Reclamation:

Applicant \$ 5,000 EXISTING BOND ON G-7-118  
Mining Division \$ \_\_\_\_\_





Are settling ponds or other structures proposed to control sedimentation in surface run off?

☒ No ☐ Yes - please complete Schedule B

What is the average depth to the high groundwater table at the proposed excavation? 10.0 m

Elevation of the groundwater table was determined from (check applicable boxes):

☒ Existing area wells ☐ Test wells drilled for this purpose  
☐ Test pits ☐ Other (describe) HYDROGEOLOGICAL REPORT June 17/11

Describe measures proposed to protect groundwater quantity and quality from potential impacts of the proposed mining activity (i.e. fuel management program, buffer above water table, etc.): EXCAVATIONS TO BE KEPT 2.0 metres MINIMUM ABOVE THE SEASONAL HIGH WATERTABLE.

*Note that excavations below the groundwater table may require special approval from the Inspector*

Will fuel/lubricants be stored on site? ☒ No ☐ Yes

If yes, handling, transportation and storage must adhere to B.C. Environment standards as detailed in "Summary of Environmental Standards and Guidelines for Fuel Handling, Transportation and Storage, 2nd edition"

Shortest distance between proposed excavation to nearest residence: 250 m, or 0.25 km

Shortest distance between proposed excavation to nearest residential water source: 250 m, or 0.25 km

Describe measures proposed to prevent inadvertent access of unauthorized persons on the mine site (i.e. fencing, vegetative barriers, berms, etc.): SITE WILL BE FENCED & BERMED.

SITE ENTRANCE GATED & SIGNAGE.

Are measures proposed to minimize noise impacts of the operation? (i.e. equipment selection, restrictions on hours of operation, noise barriers, etc.) ☐ No ☒ Yes - Please describe:

SOIL/OVERBURDEN BERMS AROUND SITE

Are measures proposed to minimize dust impacts of the proposed operation? (i.e. apply dust suppressants, water sprays, wind breaks, vegetation, etc.) ☐ No ☒ Yes - Please describe:

WATER SPRAY ON ROADS - BERM WIND BREAK AND DUST CONTROL.

Are measures proposed to minimize visual impacts of the proposed operation? (i.e. vegetative barriers, berms, green belts, etc.)

☐ No ☒ Yes - Please describe:

GRASSED STOCKPILE BERMS AROUND THE SITE.

#### OCCUPATIONAL FIRST AID

First Aid Supplies and communication at the mine site are required as per Parts 3.6.1 to 3.6.3 of the Code.

Describe the means of communication from the mine site: CELLULAR PHONES

Location of nearest hospital: MISSION

Travel time to hospital: 20 MINUTES Estimated number of employees on site (includes contractors):

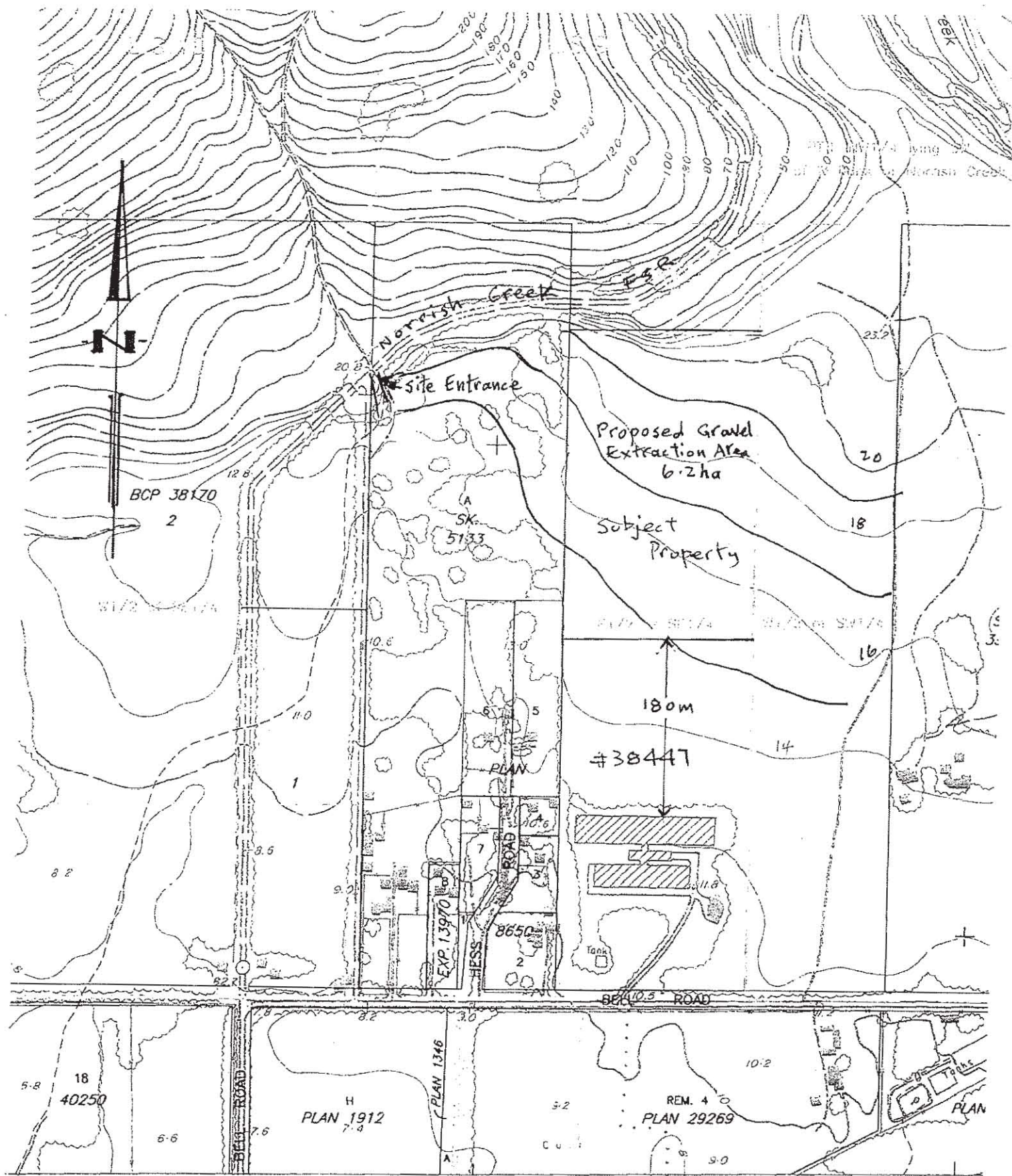
Describe First Aid Level and supplies STANDARD FIRST AID SUPPLIES ON SITE  
WCB KIT.

I, DAVE VERNON, hereby make application to undertake the mining activities described in this Notice, and in accordance with the *Mines Act* and the Health, Safety and Reclamation Code for Mines in British Columbia.

Applicant Signature: [Signature]

Date: July 07 2011





<p>EKSET CONTRACTING LTD</p> <p>PROPOSED GRAVEL EXTRACTION</p>	<p>SCALE: 1:5000</p> <p>50 0 50 100 150 200</p> <p>METERS</p>	<p>BC MAP SHEET</p> <p>092G020</p> <p>092G</p> <p>LOCAL FEATURES</p> <p>MAP</p> <p>Page 18</p>
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# FRASER VALLEY AGGREGATES LTD.

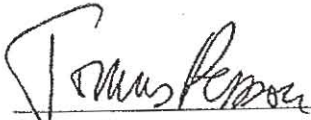
#100 - 19429 - 54TH AVENUE, SURREY, BC V3S 7X2

TEL: 604-539-7200 • FAX: 604-539-7230

Tomas Persson  
38447 Bell Road  
Dewdney, BC  
V0M 1H0

December 9, 2010

Tomas Persson hereby grants Fraser Valley Aggregates LTD, Dave Vernon, as agent of applicant to apply for a soil removal and deposition permit to the Fraser Valley Regional District and Provincial Ministry of Mines for the property located at 38447 Bell Road, Dewdney BC.

  
Tomas Persson



**C&F LAND RESOURCE CONSULTANTS LTD.**

*4383 Happy Valley Road, Victoria, B.C. V9C 3Z3  
(250)474-5072; fax:(250)474-5073; Email: cflrc@shaw.ca*

May 30, 2011

Mr. Ed Taje  
Ministry of Energy Mines and Petroleum Resources  
P.O. Box 9320, Stn. Prov. Govt.  
Victoria, B.C. V8W 9N3

Dear Mr. Taje:

**Re: 38477 Bell Road, Dewdney, B.C.; Addition to Mines Act Permit #G-7-118**

I have been asked by Ekset Contracting Ltd to act as Supervising Professional for aggregate extraction, fill replacement and final rehabilitation to an acceptable reclamation standard of the property described above. I am an Agrologist specializing in land reclamation and am a Qualified Professional in this field.

I am prepared to undertake this responsibility and will carry out regular monitoring of the site to ensure that the terms of the Mines Act Permit are fulfilled. In particular, since fill will be imported onto the site from other areas, the operator must ensure that any material imported onto the site is free from contaminants and meets the standards for industrial land use under the Contaminated Site Regulation. Records of every source site must be maintained by the operator including the civic address, type of material, name of hauler and dates when the material was deposited. In addition, a map of the site shall be maintained by the operator showing the approximate location where the material was deposited.

I, or a trained and qualified representative, will visit the site on a regular basis to monitor conformance to these conditions. I will prepare a final report certifying the work completed as specified upon completion of the work. I will notify the Ministry of Mines if I observe any significant deviation from the approved work.

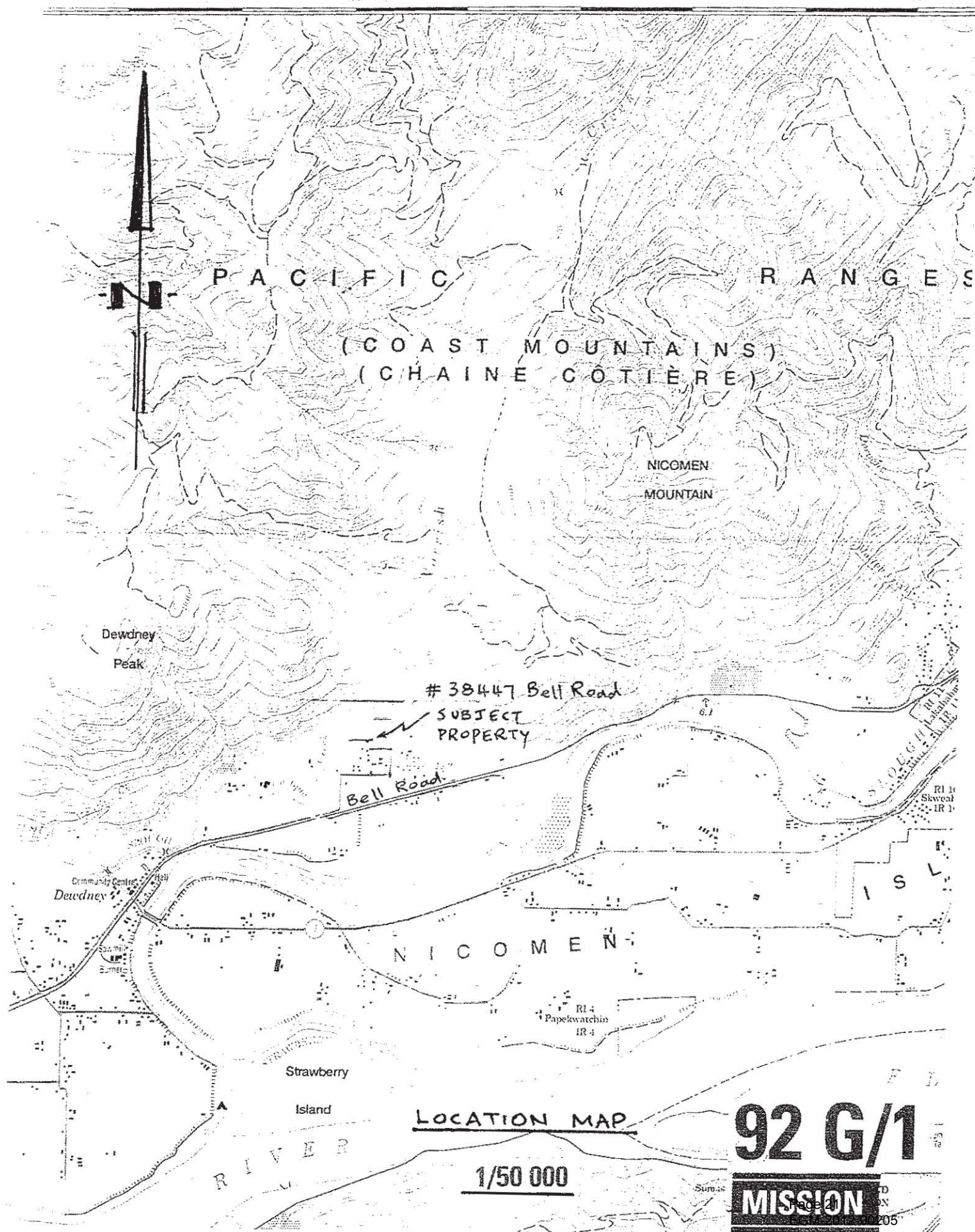
I trust this will satisfy your requirements for monitoring and supervision of this project.

Yours very truly,  
C & F LAND RESOURCE CONSULTANTS LTD.

Per:

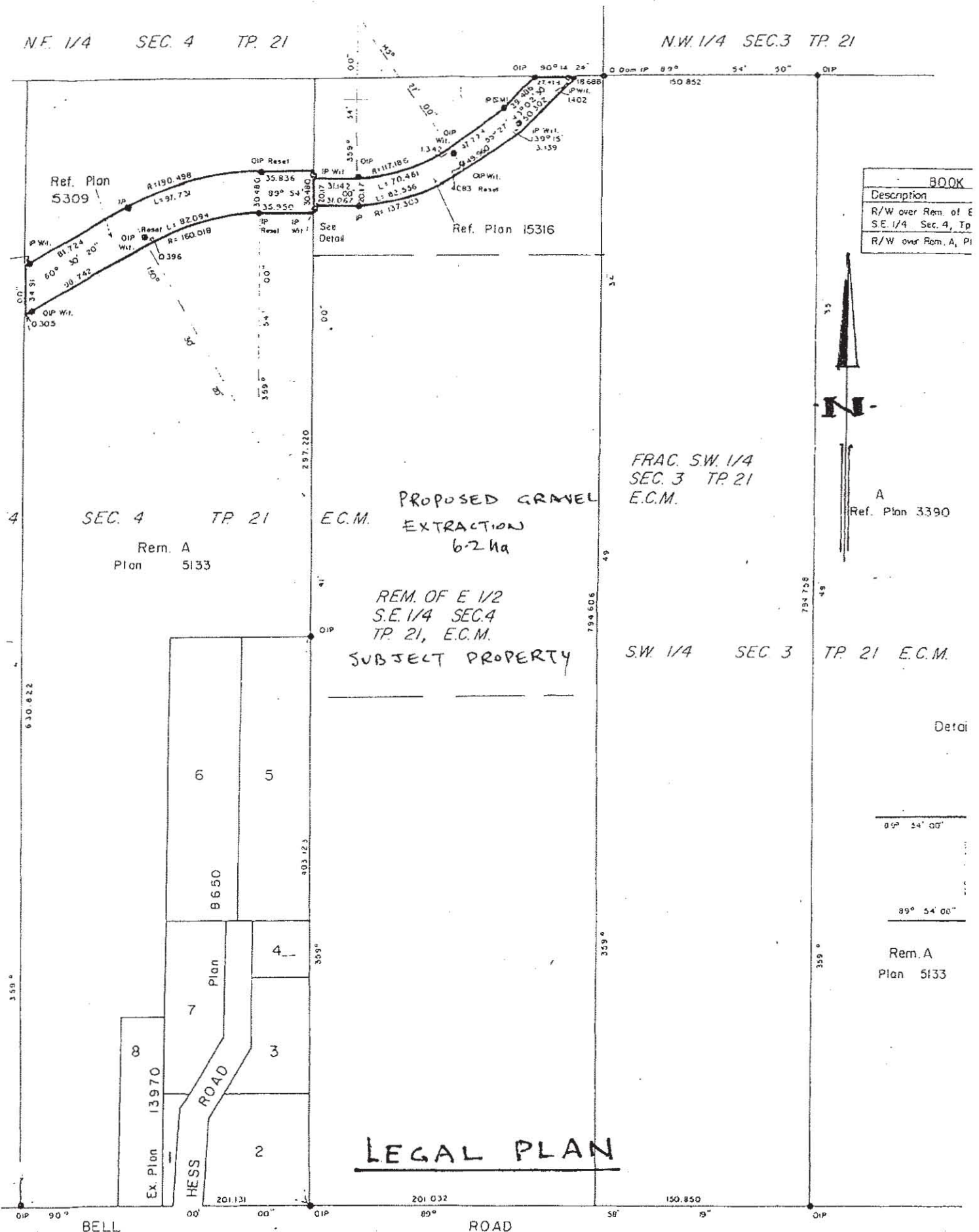


Brian M. French, P.Ag.  
Cc: Dave Vernon





N.W. 1/4 SEC.3 TP. 21



SUBJECT PROPERTY- PROPOSED GR<sup>Page 22</sup> EXTRACT

EGM-2012-00205

This also lies within the Decedent's



Ministry of  
Energy and Mines

Thursday, April 12, 2012

File: 14675-20-0700098

Dave Vernon  
Resource Manager  
Ekset Contracting Ltd.  
10200 Sylvester Road  
Mission BC V2V 4J1

Dear Mr. Vernon:

**Re: Amended Mines Act Permit G-7-118, Property: Bell Road (38297)  
Approval # 12-0700098-0314**

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Please find enclosed your amended Mines Act permit, which authorizes quarry activities as detailed in the Notice of Work and Reclamation Program dated Thursday, July 7, 2011. The Notice of Work and Reclamation Program form part of your permit, and you are reminded that you may not depart from the permitted program without written authorization.

Please ensure that you and all persons who are carrying out activities in accordance with this permit comply with all terms and conditions of the permit and are familiar with the permitted work program.

This permit applies only to the requirements under the *Mines Act* and Health, Safety and Reclamation Code for Mines in British Columbia (Code). Other legislation may be applicable to the operation and you (the Permittee) may be required to obtain approvals or permits under that legislation.

Your previously submitted

s.21

s.21

s.21 for permit G-7-118. The security may be adjusted on the basis of reclamation performance, field inspections by this ministry and on reports which may be requested.

Health and Safety inspections fall under the jurisdiction of the Mining Division of the Ministry of Energy & Mines. A fee for this service is collected through the Mine Health and Safety Inspection Fee. The fee structure is based on annual production in metric tonnes for the period January 1<sup>st</sup> through December 31<sup>st</sup>. You will receive the remittance forms and a payment schedule in December of each year with payment due by January 31<sup>st</sup> of the new year.

For further information regarding the Health and Safety Inspection Fee, please contact your regional office or Cindy Head at the Mineral, Oil and Gas Revenue Branch in Victoria at (250) 356-1366.

Please provide me with written notice at least 7 days prior to ceasing work on the program. When activity on the site is finished and reclamation completed, please forward to this office a request for cancellation of permit and return of security.

Sincerely,



Ed Taje  
Senior Inspector of Mines

Encl: Permit/NOW/ s.21

Cc: Reclamation Section, Victoria  
s.21



PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

**SAND AND GRAVEL PERMIT**  
**APPROVING WORK SYSTEM AND RECLAMATION PROGRAM**  
(Issued pursuant to Section 10 of the **Mines Act** R.S.B.C. 1996, C.293)

Permit: **G-7-118**

Mine No.: **0700098**

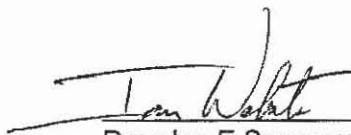
Issued to: **Ekset Contracting Ltd.**  
**10200 Sylvester Road**  
**Mission BC V2V 4J1**

for work located at the following property:

**38297 Bell Road Pit, Dewdney**

This approval and permit is subject to the appended conditions.

Issued February 17, 1993 and amended March 13, 2008.

  
\_\_\_\_\_  
Inspector For:  
Douglas E Sweeney, P. Geo., M.Sc.  
Chief Inspector of Mines

## PREAMBLE

Notice of intention to commence work on sand and gravel pit, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the Notice of Work dated January 28, 2008 was filed with the Chief Inspector of Mines on February 18, 2008. The requirement to publish such filing in the Gazette was waived.

This permit contains the requirements of the Ministry of Energy, Mines and Petroleum Resources for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy, Mines and Petroleum Resources will be made in consultation with other ministries.

## CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### 1. Reclamation Security

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance securities in the amount of five thousand dollars (\$5,000). The security will be held by the Minister of Finance for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests and Range. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.
- (c) The Permittee shall conform to all Ministry of Environment approval, licence and permit conditions, as well as requirements under the **Wildlife**

**Act.** Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: **Pasture**.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be re-vegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

- (a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- (b) No topsoil shall be removed from the property without the specific written permission of the Inspector of Mines.

6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the Inspector of Mines.



7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence, which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.

- (b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:
- (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
  - (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the Inspector of Mines, to demonstrate that reclamation objectives are being achieved.

14. Alterations to the Program

Substantial changes to the program must be submitted to the Inspector of Mines for approval.

15. Notice of Closure

Pursuant to Part 10.6.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the Inspector of Mines not less than seven days prior to cessation of work.

16. Annual Report

Annual reports shall be submitted in a form and containing the information as and if required by the Inspector of Mines.

17. Site Stability

- a) The inspector shall be advised in writing at the earliest opportunity of any unforeseen conditions that could adversely affect the extraction of materials, site stability, erosion control or the reclamation of the site.
- b) The stability of the slopes shall be maintained at all times and erosion shall be controlled at all times.
- c) The discovery of any significant subsurface flows of water, seeps, substantial amounts of fine textured, soils, silts and clays, shall be reported to the inspector as soon as possible and work shall cease until the inspector advises otherwise.

**OTHER CONDITIONS:**

18. Reclamation only

This permit only authorizes site reclamation.



19. Backfilling

Backfilling the pit with material brought onto the site shall be monitored by a Supervising Professional registered in British Columbia. The Supervising Professional shall ensure reclamation is of an acceptable standard. The permittee shall maintain records of every source site and include the civic address, type of material, name of hauler and dates when the material was deposited. A map of the site shall be maintained showing the location where material was deposited. These records shall be maintained on site and made available to an Inspector of Mines upon request. In addition, the Supervising Professional shall submit to this office a reclamation report every six months commencing June 1, 2008.

PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

**SAND AND GRAVEL PERMIT**  
**APPROVING WORK SYSTEM AND RECLAMATION PROGRAM**  
(Issued pursuant to Section 10 of the **Mines Act** R.S.B.C. 1996, C.293)

Permit: **G-7-118**

Mine No.: **0700098**

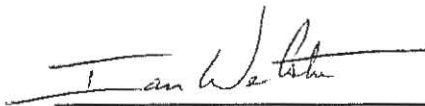
Issued to: **Ekset Contracting Ltd.**  
**10200 Sylvester Road**  
**Mission BC V2V 4J1**

for work located at the following property:

**38297 Bell Road Pit, Dewdney**

This approval and permit is subject to the appended conditions.

Issued February 17, 1993 and amended December 27, 2007.

  
FOR:  
Douglas E Sweeney, P. Geo., M.Sc.  
Chief Inspector of Mines

## PREAMBLE

Notice of intention to commence work on a sand and gravel pit, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the Notice of Work dated March 27, 2007 was filed with the Chief Inspector of Mines on March 27, 2007. The requirement to publish such filing in the Gazette was waived.

This permit contains the requirements of the Ministry of Energy, Mines and Petroleum Resources for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy, Mines and Petroleum Resources will be made in consultation with other ministries.

## CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### 1. Reclamation Security

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance securities in the amount of five thousand dollars (\$5,000). The security will be held by the Minister of Finance for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests and Range. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.
- (c) The Permittee shall conform to all Ministry of Environment approval, licence and permit conditions, as well as requirements under the **Wildlife**



**Act.** Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: **Pasture**.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be re-vegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

(a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.

(b) No topsoil shall be removed from the property without the specific written permission of the Inspector of Mines.

6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the Inspector of Mines.

7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence, which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.

(b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:

- (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
- (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the Inspector of Mines, to demonstrate that reclamation objectives are being achieved.



14. Alterations to the Program

Substantial changes to the program must be submitted to the Inspector of Mines for approval.

15. Notice of Closure

Pursuant to Part 10.6.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the Inspector of Mines not less than seven days prior to cessation of work.

16. Annual Report

Annual reports shall be submitted in a form and containing the information as and if required by the Inspector of Mines.

17. Site Stability

- a) The inspector shall be advised in writing at the earliest opportunity of any unforeseen conditions that could adversely affect the extraction of materials, site stability, erosion control or the reclamation of the site.
- b) The stability of the slopes shall be maintained at all times and erosion shall be controlled at all times.
- c) The discovery of any significant subsurface flows of water, seeps, substantial amounts of fine textured, soils, silts and clays, shall be reported to the inspector as soon as possible and work shall cease until the inspector advises otherwise.

**OTHER CONDITIONS:**

18. Reclamation only

This permit only authorizes site reclamation.

19. Backfilling

Backfilling the pit with material brought onto the site is not permitted.

PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF EMPLOYMENT AND INVESTMENT  
ENERGY AND MINERALS DIVISION

SAND AND GRAVEL PERMIT  
APPROVING WORK SYSTEM AND RECLAMATION PROGRAM  
(Issued pursuant to Section 10 of the Mines Act, R.S.B.C. 1996 , c.293)

Permit: G-7-118 (Amendment to permit dated February 17, 1993.)

Issued to: R. Castle & Son Ltd.  
7753 Taulbut Street  
Mission, British Columbia  
V2V 4X4

for work at the following property(ies): Bell Road Pit

Located at: NTS: 092G/1E

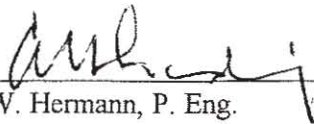
Lat: 049°10.7'  
Long: 122°09.9'

Legal Description: Sec. 4, TWP 21, LD 36, NWD, Pcl. A, Plan 5133

Access: 7 km East of Mission on Highway 7 turn left on Hawkins Pickle Road go 4 km then  
.5 km on Canfor Logging Road

This approval and permit is subject to the appended conditions.

Issued this 8th day of October in the year 1997.

For   
F. W. Hermann, P. Eng.  
Chief Inspector of Mines

## PREAMBLE

An application to amend permit G-7-118, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the work dated May 29, 1997, was filed with the District Inspector on May 29, 1997.

This permit contains the requirements of the Ministry of Employment and Investment for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Employment and Investment will be made in consultation with other ministries.

## CONDITIONS

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### 1. Reclamation Security

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance and Corporate Relations additional securities in the amount of **One Thousand Five Hundred dollars (\$1,500.00)**. A total security of **Five Thousand dollars (\$5,000.00)** will be held by the Minister of Finance and Corporate Relations for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.
- (c) The Permittee shall conform to all Ministry of Environment approval, licence and permit conditions, as well as requirements under the **Wildlife Act**. Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.



2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: recreational.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be revegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

- (a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- (b) No topsoil shall be removed from the property without the specific written permission of the District Inspector.

6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the District Inspector.

7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.
- (b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:
  - (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
  - (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the District Inspector, to demonstrate that reclamation objectives are being achieved.

14. Alterations to the Program

Substantial changes to the program must be submitted to the District Inspector for approval.

15. Notice of Closure

Pursuant to Part 10.5.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the District Inspector not less than seven days prior to cessation of work.

16. Special Conditions

- (a) A 5 m. buffer strip shall be maintained adjacent to the property boundary and the toe of the road fill beside Norrish Creek Road. There shall be no excavation of material below a surface sloping downward into the property from the inside edge of the buffer strip no steeper than 1.5 horizontal to 1 vertical.
- (b) The reclaimed pit floor elevation shall not be lower than 9.15 m. above geodetic datum.
- (c) A final reclamation plan showing contours and sections shall be submitted to the District Manager by December 31, 1997.
- (d) Approval is for pit run, crushing, washing and screening operations.



PROVINCE OF BRITISH COLUMBIA  
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

**SAND AND GRAVEL PERMIT**  
**APPROVING WORK SYSTEM AND RECLAMATION PROGRAM**  
(Issued pursuant to Section 10 of the Mines Act S.B.C. 1989)

Permit: **G-7-118**


Issued to **R. Castle and Sons Ltd.**  
**7753 Taulbut St.,**  
**Mission, B.C.**  
**V2V 4X4**

for work located at the following property:

**Worden Gravel Pit, Rem A, Plan 5133,**  
**E 1/2 Sec 4, T.P. 21 ECM**

This approval and permit is subject to the appended conditions.

Issued this 17th day of February in the year 1993.

 G.W. Beresford P. Eng.  
R.W. McGinn, P.Eng.  
Chief Inspector of Mines

## **PREAMBLE**

Notice of intention to commence work on a sand and gravel pit, including a plan of the proposed work system and a program for the protection and reclamation of the surface of the land and watercourses affected by the work dated January 8, 1993 was filed with the District Inspector on January 12, 1993. Notice of such filing in the local newspaper and the Gazette was waived.

This permit contains the requirements of the Ministry of Energy, Mines and Petroleum Resources for reclamation. It is also compatible, to the extent possible, with the requirements of other provincial ministries for reclamation issues. The amount of security required by this permit, and the manner in which this security may be applied, will also reflect the requirements of those ministries. Nothing in this permit, however, limits the authority of other provincial ministries to set other conditions, or to act independently, under their respective permits and legislation.

Decisions made by staff of the Ministry of Energy, Mines and Petroleum Resources will be made in consultation with other ministries.

## **CONDITIONS**

The Chief Inspector of Mines (Chief Inspector) hereby approves the work plan and the program for protection and reclamation of the land surface and watercourses subject to compliance with the following conditions:

### **1. Reclamation Security**

- (a) The owner, agent or manager (herein called the Permittee) shall maintain with the Minister of Finance and Corporate Relations securities in the amount of Three Thousand, Five Hundred dollars (\$3,500.00). The security will be held by the Minister of Finance and Corporate Relations for the proper performance of the approved program and all the conditions of this permit in a manner satisfactory to the Chief Inspector.
- (b) The Permittee shall conform to all forest tenure requirements of the Ministry of Forests. Should the Permittee not conform to these requirements then all or part of the security may be used to cover the costs of these requirements.

- (c) The Permittee shall conform to all Ministry of Environment approval, licence and permit conditions, as well as requirements under the **Wildlife Act**. Should the Permittee not conform to these conditions, then all or part of the security may be used to fulfill these requirements.

2. Land Use

The surface of the land and watercourses shall be reclaimed to the following land use: pasture land.

3. Productivity

The level of land productivity to be achieved on reclaimed areas shall not be less than existed prior to mining on an average property basis unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.

4. Revegetation

Land shall be revegetated to a self-sustaining state using appropriate plant species.

5. Use of Suitable Growth Medium

- (a) On all lands to be revegetated, the growth medium shall satisfy land use, productivity, and water quality objectives. Topsoil and overburden (to rooting depth) shall be removed from operational areas prior to any disturbance of the land and stockpiled separately on the property for use in reclamation programs, unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, that reclamation objectives can otherwise be achieved.
- (b) No topsoil shall be removed from the property without the specific written permission of the District Inspector.



6. Buffer Zones and Berms

Buffer zones and/or berms shall be established between the mine and the property boundary unless exempted in writing by the District Inspector.

7. Treatment of Structures and Equipment

Prior to abandonment, and unless the Chief Inspector has made a ruling otherwise, such as heritage project consideration or industrial use,

- (a) all machinery, equipment and building superstructures shall be removed,
- (b) concrete foundations shall be covered and revegetated unless, because of demonstrated impracticality, they have been exempted by the Inspector, and
- (c) all scrap material shall be disposed of in a manner acceptable to the Inspector.

8. Watercourses

- (a) Watercourses shall be reclaimed to a condition that ensures
  - (1) long-term water quality is maintained to a standard acceptable to the Chief Inspector,
  - (2) drainage is restored either to original watercourses or to new watercourses which will sustain themselves without maintenance, and
  - (3) use and productivity objectives are achieved and the level of productivity shall not be less than existed prior to mining unless the Permittee can provide evidence which demonstrates, to the satisfaction of the Chief Inspector, the impracticality of doing so.
- (b) Water which flows from disturbed areas shall be collected and diverted into settling ponds.

9. Roads

- (a) All roads shall be reclaimed in accordance with land use objectives unless permanent access is required to be maintained.
- (b) Individual roads will be exempted from the requirement for total reclamation under condition 9(a) if either:
  - (1) the Permittee can demonstrate that an agency of the Crown has explicitly accepted responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road, or
  - (2) the Permittee can demonstrate that another private party has explicitly agreed to accept responsibility for the operation, maintenance and ultimate deactivation and abandonment of the road and has, in this regard, agreed to comply with all the terms and conditions, including bonding provisions, of this reclamation permit, and to comply with all other relevant provincial government (and federal government) regulatory requirements.

10. Disposal of Fuels and Toxic Chemicals

Fuels, chemicals or reagents which cannot be returned to the manufacturer/supplier are to be disposed of as directed by the Chief Inspector in compliance with municipal, regional, provincial and federal statutes.

11. Temporary Shutdown

If this sand and gravel pit ceases operation for a period longer than one year the Permittee shall either continue to carry out the conditions of the permit or apply for an amendment setting out a revised program for approval by the Chief Inspector.

12. Safety Provisions

All safety and other provisions of the **Mines Act** shall be complied with to the satisfaction of the Chief Inspector.

13. Monitoring

The Permittee shall undertake monitoring programs, as required by the District Inspector, to demonstrate that reclamation objectives are being achieved.

14. Alterations to the Program

Substantial changes to the program must be submitted to the District Inspector for approval.

15. Notice of Closure

Pursuant to Part 10.5.1 of the Health, Safety and Reclamation Code for Mines in British Columbia, a Notice of Completion of Work shall be filed with the District Inspector not less than seven days prior to cessation of work.

16. Annual Reclamation Report

By March 31 of each year, an annual reclamation report shall be submitted in a form and containing the information required by the Chief Inspector.

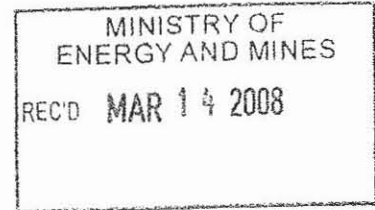
**SPECIAL CONDITIONS:**

1. A buffer zone of not less than 15 m. shall be maintained at property boundaries and at water courses.
2. The reclaimed pit floor elevation shall not be lower than 9.15 metres above geodetic datum.
3. The pit floor shall be sloped to allow natural drainage into existing drainage channel and no ponding of water is to occur within the reclaimed pit boundaries.





The Best Place on Earth



March 13, 2008

File: 14675-20-0700098

Dave Vernon  
Ekset Contracting Ltd.  
10200 Sylvester Road  
Mission BC V2V 4J1

Dear Mr. Vernon:

**Re: Mines Act Permit G-7-118  
Approval # 08-0700098-0218  
Property Bell Road (38297)**

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Please find enclosed your Mines Act permit that authorizes reclamation activities as detailed in the Notice of Work and Reclamation Program dated January 28, 2008. The Notice of Work and Reclamation Program forms part of the permit and you are reminded that you may not depart from the permitted program without written authorization. It is recognized that the letter from Brian M. French P.Ag., C&F Land Resources Consultants Ltd., dated January 15, 2008, also forms an integral part of your application and permit.

Please ensure that you and all persons who are carrying out activities in accordance with this permit comply with all terms and conditions of the permit and are familiar with the permitted work program. Your attention is drawn to OTHER CONDITIONS in the permit.

This permit applies only to the requirements under the *Mines Act* and Health, Safety and Reclamation Code for Mines in British Columbia (Code). Other legislation may be applicable to the operation and you (the Permittee) may be required to obtain approvals or permits under that legislation.

Reclamation security in the amount of five thousand dollars (\$5,000) shall be maintained and the amount of your deposit may be adjusted on the basis of reclamation performance, field inspections by this Ministry, and on reports that may be requested.

Health and safety inspections fall under the jurisdiction of this Ministry. A Mine Health and Safety Inspection Fee is collected for this service. The fee structure is based on annual production in metric tonnes for the period January 1st through December 31st. You will receive the remittance forms and a payment schedule in December of each year, with payment due by January 31st of the New Year.

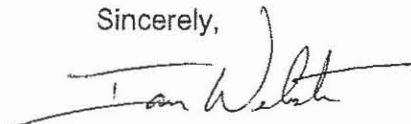
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...2

For further information regarding the Health and Safety Inspection Fee, please contact your regional office or Trevor Miller at the Resource Revenue Branch in Victoria at (250) 952-0220.

When activity on the site is finished and reclamation completed, please forward to this office a request for cancellation of permit and return of security.

Sincerely,



Ian Webster P. Geo.  
Inspector of Mines

Encl. Permit/Notice of Work (maps and sections not included)  
pc: David Morgan, Deputy Chief Inspector of Mines, Victoria  
Brian French, C&F Land Resources Consultants Ltd.



The Best Place on Earth

December 27, 2007

Dave Vernon  
Ekset Contracting Ltd.  
10200 Sylvester Road  
Mission BC V2V 4J1

Dear Mr. Vernon:

**Re: Mines Act Permit G-7-118  
Approval # 07-0700098-0929  
Property Bell Road Pit**

Please find enclosed your Mines Act permit. This permit only authorizes reclamation activities associated with past mining activities at this site. Stockpiled material may be removed, however extraction of aggregate resources will require a detailed mine plan submitted through a new Notice of Work and Reclamation Program application. In addition, backfilling the pit is not permitted. A new mine plan prepared by a suitably qualified professional, registered in British Columbia, must be submitted detailing the volume, character and placement of the material brought to the site.

Please provide to this office, as soon as possible, an Emergency Response Plan for your operation. I have enclosed "Basics of an Emergency Plan" that may assist you in developing your plan. Ensure that you and all persons who are carrying out activities in accordance with this permit comply with all terms and conditions of the permit and are familiar with the permitted work program and the emergency response plan.

This permit applies only to the requirements under the *Mines Act* and Health, Safety and Reclamation Code for Mines in British Columbia (Code). Other legislation may be applicable to the operation and you (the Permittee) may be required to obtain approvals or permits under that legislation.

s.21

s.21 The amount of your security deposit may be adjusted on the basis of reclamation performance, field inspections by this Ministry, and on reports that may be requested.

Health and safety inspections fall under the jurisdiction of this Ministry. A Mine Health and Safety Inspection Fee is collected for this service. The fee structure is based on annual production for the period January 1 through December 31.

...2

*Carol, Dec 28/07  
I did not send a copy of*

S21

*or a copy of the permit cover  
letter because I could not  
see a reason to do so.*

*Tan.*

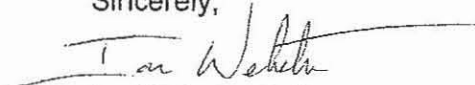


You will receive the remittance forms and a payment schedule in December of each year, with payment due by January 31 of the New Year.

For further information regarding the Health and Safety Inspection Fee, please contact Trevor Miller, Ministry of Small Business and Revenue; Mineral, Oil and Gas Revenue Branch at (250) 952-0220.

When activity on the site is finished and reclamation completed, please forward to this office a request for cancellation of permit and return of security.

Sincerely,



Ian Webster P. Geo.  
Inspector of Mines

Encl. Permit, Notice of Work,  
Plan.

s.21

Basic of an Emergency

cc: Carol Howell, Ministry of Energy, Mines and Petroleum Resources, Victoria,

## Howell, Carol EMPR:EX

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**From:** Webster, Ian EMPR:EX  
**Sent:** Wednesday, January 2, 2008 9:23 AM  
**To:** Howell, Carol EMPR:EX  
**Subject:** Mine# 0700098: Permit G-7-118 bond return

Carol,

Please return Len Castle's reclamation security bond. Ekset Contracting have posted a new bond and have taken over reclamation activities at the site.

My records show that Len Castle's s.21 but may be held in more than one financial vehicle.

**Ian Webster** P.Geo.

Inspector of Mines, Southwest Region

B.C. Ministry of Energy, Mines & Petroleum Resources

P.O. Box 9395 Stn Prov Govt, Victoria, B.C. V8W 9M9

Phone: 250-952-0737 Fax: 250-953-3878

Ph: (250) 952-0475

January 10, 2008

File: G-7-118  
14675-55-04

R.Castle & Sons Ltd.  
7753 Taulbut Street  
Mission, BC  
V2V 4X4

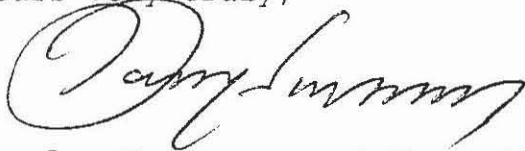
Dear Sir:

Re: Reclamation Permit G-7-118  
Pursuant to the Mines Act

s.21

Your file is now closed.

Yours very truly,



Douglas E. Sweeney, P.Geo., M.Sc.  
Chief Inspector of Mines

DES:mb

cc: Ian Webster, Victoria

s.21





Ph: (250) 952-0475

September 9, 2004

File: G-7-118  
14675-55

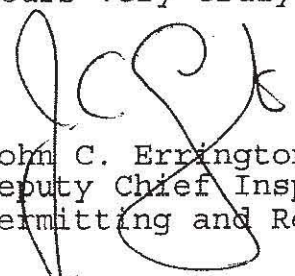
R. Castle & Sons Ltd.  
7753 Taulbut Street  
Mission, B.C.  
V2V 4X4

Dear Sir:

Re: Reclamation Permit G-7-118  
Pursuant to the Mines Act

s.21

Yours very truly,



John C. Errington, Ph.D., P.Ag.  
Deputy Chief Inspector of Mines,  
Permitting and Reclamation

JCE:ch  
Encl.

...2

CC:

s.21



Ph: (250) 952-0475

March 8, 2000

File: G-7-118  
14675-55

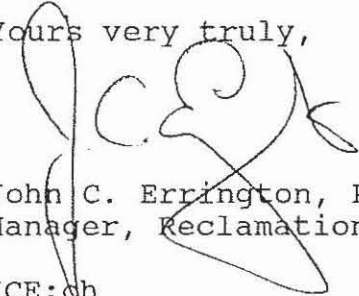
R. Castle & Sons Ltd.  
7753 Taulbut Street  
Mission, B.C. V2V 4X4

Dear Sir:

Re: Reclamation Permit G-7-118  
Pursuant to the Mines Act

s.21

Yours very truly,

  
John C. Errington, Ph.D., P.Ag.  
Manager, Reclamation and Permitting

JCE:ch  
Encl.

cc:

s.21

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THE GOVERNMENT OF BRITISH COLUMBIA IS AN "EMPLOYMENT EQUITY EMPLOYER"

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Ministry of  
Energy and  
Mines

Mines Branch  
Energy and Minerals Division

Mailing Address:  
PO Box 9320 Stn Prov Govt  
Victoria BC V8W 9N3  
Telephone: (250) 952-0462  
Facsimile: (250) 952-0481

Location:  
5th Floor, 1810 Taulbut Street  
Victoria  
EGM-2012-00205

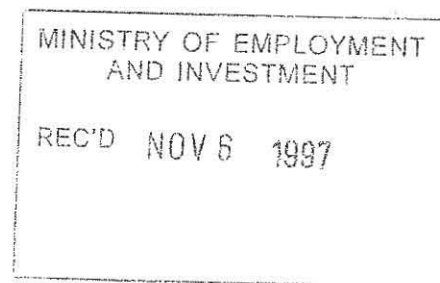




October 8, 1997

File No.: 14675-30\ML-SG-CAST  
Permit No.: G-7-118

Mr. Len Castle  
R. Castle & Son Ltd.  
7753 Taulbut Street  
Mission, British Columbia  
V2V 4X4



Dear Mr. Castle:

**Re: Application for Mines Act Approval  
Reclamation Security - Term Deposit  
Property: Bell Road Pit**


Enclosed please find your Reclamation Permit. Your attention is drawn to the conditions, which are an integral part of your permit.

s.21

Your Reclamation Security may be adjusted on the basis of field inspections by this Ministry and on reports which may be requested in the future.

Please complete the enclosed Notice of Completion form and return it to this office at the end of your work program.

Yours truly,

  
A. H. Ludwig, P.Eng.  
District Manager/Engineer

AHL/plf

Encl.

p.c. Ministry of Employment and Investment, Reclamation and Permitting

S21



Province of  
British Columbia

Ministry of Energy, Mine and Petroleum Resources  
Mineral Resources Division

Reclamation Permit.....

NOTICE OF WORK AND  
RECLAMATION PROGRAM ON A  
SAND AND GRAVEL AND/OR  
QUARRY OPERATION

MINISTRY OF EMPLOYMENT & INVESTMENT  
ENERGY & MINERALS DIVISION

~~1997~~  
May 29

NANAIMO, B.C.

Pursuant to Section 10 of the Mines Act, 1989

This form is to be completed and signed by a company or individual who wishes to operate sand and gravel pits or quarries. Keep one copy. Forward original to the District Inspector of Mines. Approval must be obtained under the Mines Act prior to commencement of work. The approval process will involve a referral to other agencies for their comments and/or gazetting and may take up to 60 days.

The information requested on this form is collected under the authority of the Mines Act (S.B.C. 1989, CHAP. 56, INDEX CHAP. 263.6) and in accordance with the Freedom of Information and Protection of Privacy Act. The information is collected for the purpose of issuing a permit under the Mines Act and may be referred to other agencies as outlined in the Health, Safety and Reclamation Code for Mines in British Columbia. If you have any questions regarding the collection and use of this information, contact the Land Management and Policy Branch in Victoria at 952-0462; or write: Land Management and Policy Branch, 4th Floor, 18 Blanshard Street, Victoria, British Columbia, V8V 1X4.

1. APPLICATION FOR: ☒ Sand and Gravel Pit ☐ Quarry

2. LOCATION: Property is known as: BELL ROAD PIT

Are the surface rights to any part of this property privately owned? ☒ Yes ☐ No

Name and address of private land owner:

s.22

Is any part of this property on Crown Land? ☐ Yes ☒ No

Is any part of this property in the Agricultural Land Reserve? ☐ Yes ☒ No

If 'yes', please give Land Tenure Number(s):

Road, street, address, municipality/regional district: same as private land owner

3. LEGAL DESCRIPTION: Sec 4 TWP 21 LD 36 NEW WESTMINSTER

NTS map sheet (ie. 094L/02E): 926/1E RCL.A PL.RPS133

Latitude: 49° 10.7' N Longitude: 122° 09.9' W

Access route (from nearest town to property): 7 KM EAST OF MISSION ON HWY 7 turn LEFT on HAWKINS PICKER Rd. go 4 KM - 1/2 KM ON CANFOR Logging Rd.

4. OPERATOR/AGENT (Person or Company controlling property on behalf of the owner):

Name: R. CASTLE & SON LTD

Telephone No.: 826-7770

Company contact person: LEN CASTLE

Fax No.:

Address: 7753 TAUNBUT ST

City: MISSION

Province: B.C.

Postal Code: V2V 4X4

Signature of Operator/Agent: [Signature]

Date: May 29, 1997



5. OWNER: (Title Holder)

Name: s.22

Fax No:

Address

City

Province

Postal Code:

Telephone No:

Signature of Owner (or letter of Authorization from Owner):

Date:

6. NAME OF MANAGER: KEN CASTLE

Manager's Phone No: 854 0771

(Person responsible for management and operation of property)

7. DURATION OF WORK

Duration of work: From current

To 2020

8. DESCRIPTION OF WORK

Pit Run ☒

Screening ☒

Crushing ☒

Washing ☒

Blasting NO

Clearing trees: ☒

Brief description of operation:

Sand & gravel supply for local contractors

If Blasting, give details of explosives, magazines, etc.

Give number of existing explosive storage permit

Name of Blaster:

9. ESTIMATED yearly extraction 10,000 cubic metres (m ) or tonnes

Estimated life of pit 20 years.

Max. height of working face: 7 metres

Material being excavated is:

Loose

☒ Consolidated

Highly consolidated

10. WATER SUPPLY: (Subject to approval under the *Water Act*) if applicable

Describe the source of water supply:

NONE

Is this proposed gravel pit above/below or near a residential water source?

☐ Yes

☒ No

If yes, describe relationship to residential water source:

11. WASTE WATER TREATMENT: (Subject to approval under the *Waste Management Act*) if applicable

Describe the waste water treatment facility (size of settling pond, recycling, distance to nearest stream, etc)

N/A



## 12. SURFACE DISTURBANCE

(a) Gravel pit/Quarry working areas..	Length <u>200</u> m	Width <u>250</u> m	Area <u>50000</u> m
(b) Settling ponds: # <u>NONE</u>	Length.....m	Width.....m	Area.....m
(c) Road construction:	Total length <u>100</u> m	Width <u>10</u> m	Area <u>1000</u> m
(d) Overburden and product stockpiles	Length.....m	Width.....m	Area.....m
(e) Plant and buildings area	Length.....m	Width.....m	Area.....m
(f) Other: describe: .....			Area.....m

TOTAL SURFACE AREA DISTURBED: 51000 m<sup>2</sup>

EXISTING DISTURBANCE.....m

PLANNED RECLAMATION: 51000 m

## 13. RECLAMATION PROGRAM: Present land use: GRAVEL PIT

Proposed use of land after reclamation: RECREATION

Describe protective measures and proposed site reclamation methods with reference to the items listed below.

Topsoil handling (where applicable): Stripped & in STOCKPILE

Backsloping of pit banks: 2 to 1 on all slopes

Surface contouring: RELATIVELY FLAT

Drainage control: By means of GRAVITY

Removal of buildings: NONE TO REMOVE

Revegetation of disturbed areas: grass seed & BRUSHES

Other: .....

## 14. EQUIPMENT LIST

Note: all equipment to comply with the Mining Code

Number and Type	Size/Capacity	Number and Type	Size/Capacity
a) <u>wheel loader</u>	<u>75B CLARK 2 cu/m</u>	e) <u>STACKER</u>	<u>TBA</u>
b) <u>jaw crusher</u>	<u>TBA</u>	f) <u>POWER PLANT</u>	<u>TBA</u>
c) <u>CONE crusher</u>	<u>TBA</u>	g) <u>SERGE BIN</u>	<u>TBA</u>
d) <u>SCREEN PLANT</u>		h) <u>6 TANDEM PUMP</u>	<u>15 T</u>

## 15. ESTIMATED NUMBER OF EMPLOYEES ON SITE (including contractors): 3

## 16. FIRST AID FACILITIES (must comply with W.C.B. Regulations)

Describe methods of communication, emergency transportation, and type of first aid kit: CELL PHONES, PICK-UP ON SITE, BC #1 FIRST AID KIT

Location of nearest hospital: MISSION Travel time to hospital: 15 min - MAXIMUM

Note: Topographic maps and plans of the proposed work area are required. One map should show the general location or access route and another map should detail the work area and contours.



Province of  
British Columbia

Ministry of  
Energy, Mines and  
Petroleum Resources

1A, 3411 Shenton Road  
Nanaimo  
British Columbia  
V9T 2H1  
Telephone: (604) 755-2486  
Fax: (604) 755-2474

File 14675-30-04

February 17, 1993

R. Castle and Sons Ltd.  
7753 Taulbut St.,  
Mission, B. C. V2V 4X4

Attention: Len Castle

Dear Sir:

**RE: Reclamation Permit G-7-118**  
**Pursuant to the Mines Act**  
**Property: Worden Gravel Pit**

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES

REC'D FEB 19 1993

RESOURCE MANAGEMENT  
BRANCH

s.21

Enclosed please find your permit approving the reclamation program. Your attention is drawn to the conditions, which are an integral part of your permit.

Please be advised, your security deposit may be increased on the basis of reclamation performance.

Yours truly,

E.W. Beresford, P. Eng.,  
District Manager & Engineer,  
Environmental Impact Management

EWB/gp

Encl.

cc. Reclamation Section

# Walker, Lacusta & Ross

Barristers & Solicitors, Notaries Public

G.W. Walker (RETIRED)

Dorian D.E. Lacusta  
David M. Ross

P.O. Box 3250  
33137 North Railway Avenue  
Mission, B.C. V2V 4J4

Telephone (604) 826-7104  
Vancouver: 462-7833

Fax: 826-3229

REPLY ATTENTION  
FILE NO.

DORIAN D. LACUSTA  
92/906

January 7, 1993

Province of British Columbia  
Ministry of Energy, Mines and Petroleum Resources  
Resource Management Branch  
A1 - 3411 Shenton Road  
Nanaimo, B.C.  
V9T 2H1

ATTENTION: E.W. Beresford

Dear Sirs:

RE: Worden Pit - Mission, B.C.

I represent Vallet Power Digging Ltd., the previous operator of the above pit.

I enclose the following documents:

- (1) Assignment of license to operate pit - Valley Power Digging Ltd. to R. Castle & Sons Ltd.;
- (2) New license - Worden to R. Castle & Sons Ltd.;
- (3) Notice of Work - submitted on behalf of R. Castle & Sons Ltd.

Vallet Power Digging wishes to obtain the release of the performance bond s.21 R. Castle & Sons Ltd., is to obtain its own bond and will undertake to comply with the plans and reclamation requirements undertaken by "Vallet".

Could you please contact me and advise as to your

. . . . . /2



- 2 -

requirements in this matter.

Yours truly,

WALKER, LACUSTA & ROSS

A handwritten signature in dark ink, appearing to read 'D. Lacusta', is written over the printed name.

PER: DORIAN D. LACUSTA  
DDL/vh  
encls.

THIS AGREEMENT made in 15 day of Dec , A.D. 1992.

BETWEEN:

VALLET POWER DIGGING (1978) LTD., a body corporate  
duly incorporated under the laws of the Province of  
British Columbia, and having a place of business at  
Mission, British Columbia, V2V 4H9,

(herein called "Assignor")

PARTY OF THE FIRST PART

AND:

R. CASTLE & SONS LTD.  
7753 Taulbut Street  
Mission, British Columbia, V2V 4X4

(herein called "Assignee")

PARTY OF THE FIRST PART

WHEREAS:

A. By licence dated November 28, 1986, (the  
licence) and renewed annually thereafter at the expiration of  
the term, the assignor did obtain a licence from

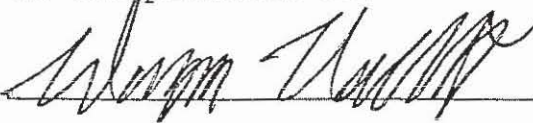
s.22 ("the owners") to  
remove sand and gravel from an area of the owners property as  
set out in the licence.

B. The Assignee has requested the Assignor to  
assign all his rights under the said licence. Wherefore the  
PARTIES covenant and agree as follows:

1. In the consideration of the sum of s.21  
paid by the Assignee to the Assignor, (the receipt of which is  
acknowledged) the Assignor does hereby sell, assign and  
transfer to the Assignee all the Assignor's interest in the  
licence and every covenant, article right a provision therein  
contained.

2. The Assignee covenants to assume and satisfy all the Assignor's duties and obligations under the licence and to be bound by the terms and conditions thereof.
3. The Assignor shall file with the Department of Mines Energy and Petroleum Resources a Notice of Closure.
4. The Assignee shall apply to reopen the works and shall deposit with the Department of Mines, Energy and Resources such funds as may be required to effect the release to the Assignor of the Reclamation Bond deposited by the Assignor.

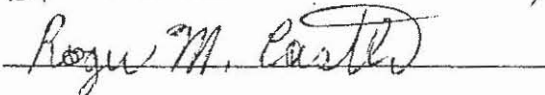
THE CORPORATE SEAL OF  
VALLET POWER DIGGING (1978)  
LTD. was hereunto affixed  
in the presence of:



c/s

~~THE CORPORATE SEAL OF~~  
R. CASTLE & SONS LTD. was  
~~hereunto affixed in the~~  
~~presence of:-~~

BY AUTHORIZED SIGNATORY



c/s



RELEASE

We,

s.22

s.22 ("the owners") hereby consent to the assignment of  
licence and release VALLET POWER DIGGING (1978) LTD., from any  
and all obligations under the licence dated November 28, 1986,  
and renewal thereof.

SIGNED, SEALED AND DELIVERED )  
in the presence of: )

NAME: \_\_\_\_\_ )  
ADDRESS: \_\_\_\_\_ )  
OCCUPATION: \_\_\_\_\_ )  
(as to both signatures) )

s.22

**C&F LAND RESOURCE CONSULTANTS LTD.**

4383 Happy Valley Road, Victoria, B.C. V9C 3Z3  
(250)474-5072; fax:(250)474-5073; Email: cflrc@shaw.ca

January 15, 2008

Mr. Ian Webster, Regional Manager, Exploration and Mining  
Ministry of Energy Mines and Petroleum Resources  
P.O. Box 9320, Stn. Prov. Govt.  
Victoria, B.C. V8W 9N3

Dear Mr. Webster:

**Re: 38297 Bell Road, Dwdnev, B.C.: Mines Act Permit #G-7-118**

I have been asked by B&B Contracting Ltd to act as Supervising Professional for completion of the placement of fill and final rehabilitation to an acceptable reclamation standard of the property described above which is an exhausted gravel pit.

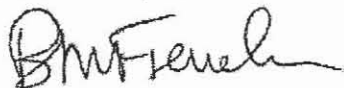
I am prepared to undertake this responsibility and will carry out regular monitoring of the site to ensure that the terms of the Mines Act Permit are fulfilled. In particular, since fill will be imported onto the site from other areas, the operator must ensure that any material imported onto the site is free from contaminants and meets the standards for industrial land use under the Contaminated Site Regulation. Records of every source site must be maintained by the operator including the civic address, type of material, name of hauler and dates when the material was deposited. In addition, a map of the site shall be maintained by the operator showing the approximate location where the material was deposited.

I, or a trained and qualified representative, will visit the site on a regular basis to monitor conformance to these conditions. I will prepare a final report certifying the work completed as specified upon completion of the work. I will notify the Ministry of Mines if I observe any significant deviation from the approved work.

I trust this will satisfy your requirements for monitoring and supervision of this project.

Yours very truly,  
C & F LAND RESOURCE CONSULTANTS LTD.

Per:



Brian M. French, P.Ag.  
Cc: Dave Vernon



Ministry of Energy and Mines

Sand and Gravel/Quarry Operation  
Notice of Work and  
Reclamation Program

The information on this form and any supporting documents are subject to the Freedom of Information and Protection of Privacy Act. The information requested on this form is collected and used for the purpose of administering the Mines Act & Health, Safety and Reclamation Code for Mines in British Columbia. The Mines Act of British Columbia also authorizes the collection of the requested information on this form. The completed form is routinely available to the public. Questions about how the Freedom of Information and Protection of Privacy Act applies to the information collected on this form can be directed to the Information Access and Records Services Branch at (250) 952-0514; fax (250) 952-0739 or write to: PO Box 9325 Stn Prov Govt, Victoria, British Columbia, V8W 9N3.

MINISTRY OF

ENERGY AND MINES

REC'D MAR 14 2008

RECLAMATION

Application is for: ☒ Sand and Gravel Mine☐ Rock Quarry

This application is for (check one):

☐ Development☒ Amendment to existing permit Permit # G-7-118

Application is being made by:

☒ Owner (Private property)☒ Operator/Agent (Person or company making application on Crown land or on private property not owned by applicant)Name DAVE VERNON

E-mail Address:

Company (if applicable) EKSET CONTRACTING LTDAddress \*100 19429 54 AVECity SUSSEXBus. Phone (604) 220-4677Province B.C.Postal Code V3S-7X2Fax (604) 539-7230

## LOCATION INFORMATION - Maps are mandatory under Schedule A

Name of Mine (What will the operation be called when in production?): BELL ROAD PITLegal Description of Property: REM. A E 1/2 OF SE 1/4 SEC. 4, TWP. 21 ECM.  
REF. PLAN 5133Street Address of Property, if applicable: #35297 BELL ROAD  
DEWDNEYAccess route from nearest town to property: 7 km EAST OF MISSION ON HWY #7  
TURN LEFT ON HAWKINS PICKLE ROAD CO 4 km THEN 0.5 km ON LOGGING ROAD.

B.C. Geographic System Map Sheet Number(s) [i.e. TRIM 093L006]

Northing:

Easting:

UTM Zone:

or NTS Map Sheet Number(s) [i.e. NTS 093L145]:

092 G/1ELatitude: 49° 10.7' NLongitude: 122° 9' 09.9" W

## OWNERSHIP (Complete a, b or c if the land is not privately held by applicant)

a) Proposed mine is on private land:

Name of property owner FRASER VALLEY AGGREGATES LTDAddress \*100 19429 54 AVECity SUSSEXBus. Phone (604) 220-4677Province B.C.Postal Code V3S-7X2Fax (604) 539-7230

Signature of owner agreeing to the mining operation proposed in this application (or attach letter of authorization signed by owner):

Name: DAVE VERNONDate: JAN 28 2008

b) Proposed mine is on Crown land:

Assets and Lands Corporation (ALC) file reference number: N/ALicense of Occupation/Lease number: N/AExpiry date of Licence/Lease (y/m/d): N/A

c) Proposed mine is a mineral quarry (as defined under the Mineral Tenure Act):

What mineral is proposed to be mined? N/A

Mineral Claim/Lease Tenure Number(s):

## MANAGEMENT

Correspondence regarding this application should be sent to:

☐ Owneror ☒ Operator/Agent

The mine manager (Mines Act Sections 21 and 22) responsible for management and operation of the mine will be:

Name: DAVE VERNONBus. Phone: (604) 220-4677



**LAND USE**

1) Cultural Heritage Resources (A cultural heritage resource is defined as 'an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people'. B.C. law requires the conservation of these resources. It is the responsibility of the applicant to identify these resources.

Are you aware of any cultural heritage resources present on the property?

- ☐ Yes - please attach a plan for the conservation of cultural heritage resources on the property  
☒ No - if cultural heritage resources are discovered while mining, you are required to report them to the Mining Division.

**2) Soil Conservation**

Average depth of overburden (material, including topsoil, overlying sand, gravel and/or rock): BACKFILL cm, or 7.5-8.0 m

Average depth of topsoil (Surface to maximum rooting depth of plants, plus 15 cm.): 30 cm, or 0.3 m

Measures to stabilize soil/overburden stockpiles and control noxious weeds:

SPRAY STOCKPILES FOR NOXIOUS WEEDS - COVER WITH SOIL AND SEED TO GRASS AFTER BACKFILLING THE PIT.

Topsail must be conserved for reclamation of the mine site.

Removal of topsoil from the site requires written approval of the Inspector

**3) End Land Use**

Is the site within the Agricultural Land Reserve?

- ☒ No ☐ Yes - authorization for soil removal from the Land Reserve Commission and Regional District must be obtained. Provide permit application number if available: \_\_\_\_\_

Is the site within the Forest Land Reserve?

- ☒ No ☐ Yes - authorization from the Land Reserve Commission must be obtained

Is the site within a Tree Farm Licence?

- ☒ No ☐ Yes - state the TFL number: \_\_\_\_\_

Name of TFL holder: \_\_\_\_\_

Does the local government have a Soil Removal Bylaw?

- ☐ No ☒ Yes - please be aware that a Soil Removal Permit may be required by the local government.

Official Community Plan designation for the site is: GRAVEL PIT / RESOURCE EXTRACTION

Current land use zoning for the site is: R.2

Proposed end land use is: PASTURE LAND

**4) Reclamation of Site** (If space provided below is insufficient, please attach separate sheet describing proposed reclamation)

Reclamation measures and schedule proposed to achieve end land use objectives as per part 10.7.4 and 10.7.5 of the Health Safety and Reclamation Code for Mines in British Columbia (hereafter referred to as the Code):

PROPOSED TO BACKFILL THE EXISTING EXCAVATED PIT TO THE CREST OF THE EXCAVATIONS TO ORIGINAL GROUND LEVEL CONTOURS.  
TOPSOIL AND SEED TO GRASS.  
ATTACHED LETTER FROM MR. B. H. FRENCH P. Eng. of C&F RESOURCE CONSULTANTS LTD.

If backfilling of pits or pit slopes is proposed in the final configuration for reclamation, provide details of materials to be used and placement procedure: SITE BACKFILLING SUPERVISED BY C&F LAND RESOURCE CONSULTANTS LTD  
BACKFILL MATERIAL IMPORTED ONTO THE SITE - MUST BE FREE FROM CONTAMINANTS AND MEETS THE STANDARDS FOR INDUSTRIAL LAND USE UNDER THE CONTAMINATED SITE REGULATION.



**MINE DEVELOPMENT PLAN** (Maps are mandatory - please refer to Schedule A)

Unless otherwise required by the Inspector, complete the following mine development plan and prepare development maps and cross sections based on a period of 5 years or less. Mines operating for longer than 5 years, may be required to file updated Notices of Work every 5 years over the life of the mine at the discretion of the District Inspector.

Proposed start date (y/m/d): 2008/02/01Proposed finish date (y/m/d): 2010/05/31

The mining operation will generally be (check one)

☒ Continuous (operates throughout the year)☐ Seasonal, usually operates from \_\_\_\_\_ to \_\_\_\_\_☐ Intermittent (occasionally operates with extended periods of inactivity)Estimate total mineable reserves over the life of the mine: NIL tonnes, or NIL m<sup>3</sup>Estimated annual extraction from site: NIL tonnes/yr. or NIL m<sup>3</sup>/yr

Application must be made to the Environmental Assessment Office if estimated extraction for sand/gravel production is 500,000 tonnes/yr. or 1,000,000 tonnes over 4 years; or if estimated extraction is 250,000 tonnes/yr. for quarried product. Mineral quarries producing more than 1000 tonnes per year per claim require a mining lease.

Description of Work (Check appropriate boxes):

☐ Excavation of Pit Run☐ Washing - please complete Schedule B☐ Crushing☐ Blasting - please complete Schedule C☐ Mechanical Screening☐ Timber Clearing \* - estimate volume of timber: NIL m<sup>3</sup>

\* Timber Clearing on Crown Land requires a Free Use Permit or License to Cut from the Ministry of Forests

Provide a brief description of operation, including proposed work schedule (i.e. hours, days of usual operation): \_\_\_\_\_

**RECLAMATION PROJECT**

PROPOSED TO IMPORT APPROVED FILL MATERIAL ONTO THE SITE AND PLACE MATERIAL INTO THE MINED OUT PIT. COMPACT FILL WITH A D6 CAT DOZER IN 1.5 METER LIFTS. TO FILL TO ORIGINAL GROUND LEVEL.

TOPSOIL & SEED TO GRASS.OPERATING HOURS 7:00am To 6:00pm, 5 days/week - SATURDAYS 8:00am - 4:00pm

Equipment List: (Please attach separate list if space provided below is insufficient)

IF REQUIRED

Type of Machine	Make/Model	Size/Capacity	# on Site
D-6 DOZER	CAT	D6	1
FRONT END LOADER	CAT	988	1
OFFICE TRAILER / EXISTING WEIGHT SCALE (FIRST AID)			

**Surface Disturbance** - Information provided must be documented in development maps submitted under Schedule A(Note that 10,000 m<sup>2</sup> = 1 hectare)Existing Disturbance (Work areas, unreclaimed areas, access roads, etc.) 55,000 m<sup>2</sup> or 5.5 hectaresProposed Mining Disturbance (New work areas, settling ponds, access roads, buildings, etc. to be developed within the time frame of this Notice of Work) NIL m<sup>2</sup> or NIL hectaresTotal Disturbed Area (Existing + Proposed Disturbance) 55,000 m<sup>2</sup> or 5.5 hectares

Will any portion of this disturbance be reclaimed within the time frame of this Notice of Work?

☐ No☒ Yes - state size of area to be reclaimed: 55,000 m<sup>2</sup> or 5.5 hectares

Estimated Cost of Reclamation:

Applicant

\$

Mining Division

\$

5,000.00

PERMIT 4-7-118



Are settling ponds or other structures proposed to control sedimentation in surface run off?

☒ No☐ Yes - please complete Schedule BWhat is the average depth to the high groundwater table at the proposed excavation? 8-01.4-0 m

Elevation of the groundwater table was determined from (check applicable boxes):

☐ Existing area wells☐ Test wells drilled for this purpose☐ Test pits☐ Other (describe) OBSERVATIONS ON SITEDescribe measures proposed to protect groundwater quantity and quality from potential impacts of the proposed mining activity (i.e. fuel management program, buffer above water table, etc.): COMPACT BACKFILL AS MATERIAL IS PLACED IN THE MINED OUT PIT.  
NO FURTHER EXCAVATION IN THE PIT.

Note that excavations below the groundwater table may require special approval from the Inspector

Will fuel/lubricants be stored on site?

☒ No☐ Yes

If yes, handling, transportation and storage must adhere to B.C. Environment standards as detailed in "Summary of Environmental Standards and Guidelines for Fuel Handling, Transportation and Storage, 2nd edition"

Shortest distance between proposed excavation to nearest residence: 250 m, or 0.25 kmShortest distance between proposed excavation to nearest residential water source: 250 m, or 0.25 kmDescribe measures proposed to prevent inadvertent access of unauthorized persons on the mine site (i.e. fencing, vegetative barriers, berms, etc.): SITE IS FENCED WITH A LOCKABLE GATE AT THE VEHICULAR ENTRANCE. SIGNS POSTED WARNING & NO UN-AUTHORISED ENTRY TO THE SITE.Are measures proposed to minimize noise impacts of the operation? (i.e. equipment selection, restrictions on hours of operation, noise barriers, etc.) ☐ No ☒ Yes - Please describe:EQUIPMENT MAINLY WORKING BELOW GROUND LEVEL - SMALL MACHINE. PIT WALLS WILL ACT AS A SOUND BUFFER.Are measures proposed to minimize dust impacts of the proposed operation? (i.e. apply dust suppressants, water sprays, wind breaks, vegetation, etc.) ☐ No ☒ Yes - Please describe:WATER SPRAYS TO ACCESS ROAD AS REQUIRED AND TO PLACEMENT FILL.

Are measures proposed to minimize visual impacts of the proposed operation? (i.e. vegetative barriers, berms, green belts, etc.)

☐ No☒ Yes - Please describe:PIT IS WELL SCREENED FROM THE ROAD BY EXISTING TREES / VEGETATION.**OCCUPATIONAL FIRST AID**

First Aid Supplies and communication at the mine site are required as per Parts 3.6.1 to 3.6.3 of the Code.

Describe the means of communication from the mine site: CELL PHONESLocation of nearest hospital: MISSIONTravel time to hospital: 15 minutes Estimated number of employees on site (includes contractors):Describe First Aid Level and supplies: BC #1 & WCB TYPE FIRST AID KIT ON SITE IN PICK-UP & OFFICE TRAILER.I, DAVE VERNON, hereby make application to undertake the mining activities described in this Notice, and in accordance with the Mines Act and the Health, Safety and Reclamation Code for Mines in British Columbia.Applicant Signature [Signature]Date JAN 28 08

Indicate the location of the property with respect to local communities

✓ Permit Application

Schedule A2 (compulsory): Local Features map (1:20,000 scale - TRIM map)

Map should show topography, water courses, existing access and/or proposed new or upgraded access, the location of proposed mining area, and location (if known) of historical/cultural resources. If applicable, locate the boundaries of Forest Land Reserves and Agricultural Land Reserves on the map. ✓  
Ditto

Schedule A3 (compulsory): Land Title map

The subject parcel and adjacent properties must be clearly identified and the following items detailed:

- location of all structures and wells within 300 metres of proposed mining area
  - identify current land uses on adjoining properties (i.e. forested, chicken farm, etc.)
- ✓ Ditto

Schedule A4: Mineral Tenure map (at scale maintained by Mineral Titles Branch for subject area)

Mineral Tenure map(s) are required if quarrying a mineral (as defined under the Mineral Tenure Act)

Schedule A5: Terrain/geology and Terrain Stability Map (1:20,000 scale)

Terrain map(s) are required:

- for excavations on slopes greater than 50%, and/or
- for excavations in areas with a stability rating of Class IV or V; or
- if requested by the Inspector

The Inspector may require a "Detailed Terrain Stability Assessment" and/or a "Soil Erosion Hazard Assessment".

Schedule A6 (compulsory): Mine Development Plan at 1:5,000 or more detailed scale

The District Inspector may require a mine plan to be prepared by a suitable qualified P.Eng/Geol based on a topographical site survey, terrain stability and erosion hazard assessments. ✓

All plans and sections must indicate the scale and orientation of the drawing (please refer to attached sample)

1) Plan View of Proposed Development

Must illustrate the location of:

- Property boundaries and set back of excavation from property boundary
  - Watercourses and drainages (wet, dry or intermittent) on the property and within 150 metres of its boundaries
  - All previous surface workings, the final boundaries of proposed excavation, and boundaries of excavation at the end of development described in Notice of Work (please specify on drawing)
  - Access roads, including development roads within the pit and access to public road(s)
  - All proposed and existing stockpiles (i.e. topsoil, overburden, product, etc.)
- ✓

Where applicable, show location of:

- All settling ponds (for both surface run off and process water) and source of process water
  - Buildings and other facilities (i.e. fuel/lubricant storage, sanitary facilities, weigh scale, etc.)
  - sediment control structures and the location of any point discharges from the property
  - Fencing, berms, and/or vegetative buffers
- ✓

1) Cross Sections of Proposed Development

At least two cross sections, orientated perpendicular to each other, must be provided

The location of cross sections must be shown on the plan view map(s). Cross sections must illustrate:

- The original land surface and, if applicable, the groundwater table elevation
  - Typical configuration during mining, indicating angle of slope and, where applicable, bench locations
  - Proposed configuration on completion of reclamation
- ✓

Revised: 06/24/03



C700078

**C&F LAND RESOURCE CONSULTANTS LTD.**

4383 Happy Valley Road, Victoria, B.C. V9C 3Z3  
(250)474-5072; fax:(250)474-5073; Email: cflrc@shaw.ca

January 15, 2008

Mr. Ian Webster, Regional Manager, Exploration and Mining  
Ministry of Energy Mines and Petroleum Resources  
P.O. Box 9320, Stn. Prov. Govt.  
Victoria, B.C. V8W 9N3

Dear Mr. Webster:

**Re: 38297 Bell Road, Dwdney, B.C.; Mines Act Permit #G-7-118**

I have been asked by B&B Contracting Ltd to act as Supervising Professional for completion of the placement of fill and final rehabilitation to an acceptable reclamation standard of the property described above which is an exhausted gravel pit.

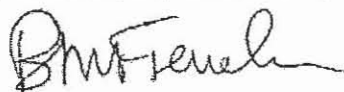
I am prepared to undertake this responsibility and will carry out regular monitoring of the site to ensure that the terms of the Mines Act Permit are fulfilled. In particular, since fill will be imported onto the site from other areas, the operator must ensure that any material imported onto the site is free from contaminants and meets the standards for industrial land use under the Contaminated Site Regulation. Records of every source site must be maintained by the operator including the civic address, type of material, name of hauler and dates when the material was deposited. In addition, a map of the site shall be maintained by the operator showing the approximate location where the material was deposited.

I, or a trained and qualified representative, will visit the site on a regular basis to monitor conformance to these conditions. I will prepare a final report certifying the work completed as specified upon completion of the work. I will notify the Ministry of Mines if I observe any significant deviation from the approved work.

I trust this will satisfy your requirements for monitoring and supervision of this project.

Yours very truly,  
C & F LAND RESOURCE CONSULTANTS LTD.

Per:



Brian M. French, P.Ag.  
Cc: Dave Vernon





The information on this form and any supporting documents are subject to the Freedom of Information and Protection of Privacy Act. The information requested on this form is collected and used for the purpose of administering the Mines Act & Health, Safety and Reclamation Code for Mines in British Columbia. The Mines Act of British Columbia also authorizes the collection of the requested information on this form. The completed form is routinely available to the public. Questions about how the Freedom of Information and Protection of Privacy Act applies to the information collected on this form can be directed to the Information Access and Records Services Branch at (250) 952-0514; Fax (250) 952-0739 or write to: PO Box 9325 Stn Prov Gov't Victoria, British Columbia, V8W 6N3.

Application is for: ☒ Sand and Gravel Mine ☐ Rock Quarry

This application is for (check one):

☐ Development ☒ Amendment to existing permit Permit # G-7-118

Application is being made by:

☐ Owner (Private property)☒ Operator/Agent (Person or company making application on Crown land or on private property not owned by applicant)Name DAVE VERNONE-mail Address: dvernon@shaw.caCompany (if applicable) EXSET CONTRACTING LTDAddress 10200 SYLVESTER ROADCity MISSIONBus. Phone (604) 220-4677Province BCPostal Code V2V 4J1Fax (604) 534-6325

## LOCATION INFORMATION - Maps are mandatory under Schedule A

Name of Mine (What will the operation be called when in production?): BELL ROAD PITLegal Description of Property: Sec. 4, Twp 21, LD 36, NWD, Pcl A, Plan 5133Street Address of Property, if applicable: 38297 BELL ROAD, DEWDNEY, BCAccess route from nearest town to property: 7 km East of Mission on Highway 7 turn left on Hawkins Pickle Road go 4 km then 0.5 km on Logging Road

B.C. Geographic System Map Sheet Number(s) (i.e. TRIM 033L 008):

Northing:

Easting:

UTM Zone:

or NTS Map Sheet Number(s) (i.e. NTS 093L/14E): 092 G/1ELatitude: 49° 10.7'Longitude: 122° 09.9'

## OWNERSHIP (Complete a, b or c if the land is not privately held by applicant)

a) Proposed mine is on private land:

Name of property owner Fraser Valley Aggregates Ltd.Address 17341 - 56th AVENUECity SURREYBus. Phone (604) 576-1361Province BCPostal Code V3S 1C2Fax (604) 576-8631

Signature of owner agreeing to the mining operation proposed in this application (or attach letter of authorization signed by owner):

Name: ABCDate: March 26 2007

b) Proposed mine is on Crown land:

Assets and Lands Corporation (BCAL) file reference number:

License of Occupation/Lease number:

Expiry date of Licence/Lease (y/m/d):

c) Proposed mine is a mineral quarry (as defined under the Mineral Tenure Act):

What mineral is proposed to be mined?

Mineral Claim/Lease Tenure Number(s):

## MANAGEMENT

Correspondence regarding this application should be sent to:

☐ Owner

or

☒ Operator/Agent

The mine manager (Mines Act Sections 21 and 22) responsible for management and operation of the mine will be:

Name: DAVE VERNONBus. Phone: (604) 220-4677





Ministry of Energy and Mines

# Sand and Gravel/Quarry Operation Notice of Work and Reclamation Program

**LAND USE**

1) **Cultural Heritage Resources** (A cultural heritage resource is defined as "an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people". B.C. law requires the conservation of these resources. It is the responsibility of the applicant to identify these resources.

Are you aware of any cultural heritage resources present on the property?

☐ Yes - please attach a plan for the conservation of cultural heritage resources on the property

☒ No - If cultural heritage resources are discovered while mining, you are required to report them to the Mining Division.

**2) Soil Conservation**

Average depth of overburden (material, including topsoil, overlying sand, gravel and/or rock): 20 cm, or 0.2 m

Average depth of topsoil (Surface to maximum rooting depth of plants, plus 15 cm.): 20 cm, or 0.2 m

Measures to stabilize soil/overburden stockpiles and control noxious weeds:

SOIL STOCKPILES / OVERBURDEN STOCKPILES WILL BE GRADED & SLOPED AND SEEDED TO GRASS - SPRAY FOR NOXIOUS WEEDS.

Topsoil must be conserved for reclamation of the mine site.

Removal of topsoil from the site requires written approval of the Inspector

**3) End Land Use**

Is the site within the Agricultural Land Reserve?

☒ No

☐ Yes - authorization for soil removal from the Land Reserve Commission and Regional District must be obtained. Provide permit application number if available: \_\_\_\_\_

Is the site within the Forest Land Reserve?

☒ No

☐ Yes - authorization from the Land Reserve Commission must be obtained

Is the site within a Tree Farm Licence?

☒ No

☐ Yes - state the TFL number: \_\_\_\_\_

Name of TFL holder: \_\_\_\_\_

Does the local government have a Soil Removal Bylaw?

☐ No

☒ Yes - please be aware that a Soil Removal Permit may be required by the local government

Official Community Plan designation for the site is: GRAVEL PIT / RESOURCE EXTRACTION

Current land use zoning for the site is: R-2

Proposed end land use is: Pasture land - Recreational

**4) Reclamation of Site** (If space provided below is insufficient, please attach separate sheet describing proposed reclamation)

Reclamation measures and schedule proposed to achieve end land use objectives as per part 10.7.4 and 10.7.5 of the Health Safety and Reclamation Code for Mines in British Columbia (hereafter referred to as the Code): \_\_\_\_\_

PROPOSED TO BACKFILL THE EXISTING EXCAVATED PIT TO THE 9.15 M. ELEVATION OR HIGHER TO ORIGINAL GROUND LEVEL. COVER AREA WITH SEED FOR PASTURE. BACKFILL MATERIAL TO BE OF GOOD QUALITY ROCK / OVERBURDEN

If backfilling of pits or pit slopes is proposed in the final configuration for reclamation, provide details of materials to be used and placement procedure: BACKFILL WITH ROCK / OVERBURDEN / SOIL.

SLOPES TO BE GRADED TO A 2H TO 1V slope or less AND COVERED WITH SOIL & SEEDED TO GRASS.





BRITISH  
COLUMBIA

Ministry of Energy and Mines

Sand and Gravel/Quarry Operation  
Notice of Work and  
Reclamation Program

**MINE DEVELOPMENT PLAN** (Maps are mandatory - please refer to Schedule A)

Unless otherwise required by the Inspector, complete the following mine development plan and prepare development maps and cross sections based on a period of 5 years or less. Mines operating for longer than 5 years, may be required to file updated Notices of Work every 5 years over the life of the mine at the discretion of the District Inspector.

Proposed start date (y/m/d): 2007/04/01

Proposed finish date (y/m/d): 2017/11/30

The mining operation will generally be (check one)

☒ Continuous (operates throughout the year)

☐ Seasonal, usually operates from \_\_\_\_\_ to \_\_\_\_\_

☐ Intermittent (occasionally operates with extended periods of inactivity)

**PIT TO BE RECLAIMED**

Estimate total mineable reserves over the life of the mine: 10,000 tonnes, or 5,500 m<sup>3</sup>

Estimated annual extraction from site: 10,000 tonnes/yr, or 5,500 m<sup>3</sup>/yr

Application must be made to the Environmental Assessment Office if estimated extraction for sand/gravel production is 500,000 tonnes/yr. or 1,000,000 tonnes over 4 years; or if estimated extraction is 250,000 tonnes/yr. for quarried product.

Mineral quarries producing more than 1000 tonnes per year per claim require a mining lease.

Description of Work (Check appropriate boxes):

☒ Excavation of Pit Run

☒ Crushing

☒ Mechanical Screening

☐ Washing - please complete Schedule B

☐ Blasting - please complete Schedule C

☐ Timber Clearing \* - estimate volume of timber: None m<sup>3</sup>

\* Timber Clearing on Crown Land requires a Free Use Permit or License to Cut from the Ministry of Forests

Provide a brief description of operation, including proposed work schedule (i.e. hours, days of usual operation):

PROPOSED TO CONTINUE EXCAVATING & PROCESSING THE  
REMAINING GRAVEL RESOURCE.

RECLAIM PIT TO AGREED ELEVATION AND SEED TO  
GRASS. (9.15m minimum BACKFILL)

USUAL OPERATING HOURS 7:00 a.m. to 6:00 p.m. 5 days/week

SATURDAYS IF REQUIRED 8:00 am to 4:00 pm.

Equipment List: (Please attach separate list if space provided below is insufficient)

Type of Machine	Make/Model	Size/Capacity	# on Site
EXCAVATOR	CAT		
FRONT END LOADER	CAT 988	2.5 cu.m.	1
Mobile Crushing/Screening Plant	WAS 61106		1
DOZER	CAT 8/9		AS required
GENERATOR SET			1
OFFICE TRAILER			1

**Surface Disturbance** - Information provided must be documented in development maps submitted under Schedule A

(Note that 10,000 m<sup>2</sup> = 1 hectare)

Existing Disturbance (Work areas, unreclaimed areas, access roads, etc.) 55,000 m<sup>2</sup>, or 5.5 hectares

Proposed Mining Disturbance (New work areas, settling ponds, access roads, buildings, etc. to be developed within the time frame of this Notice of Work) 55,000 m<sup>2</sup>, or 5.5 hectares

Total Disturbed Area (Existing + Proposed Disturbance) 55,000 m<sup>2</sup>, or 5.5 hectares

Will any portion of this disturbance be reclaimed within the time frame of this Notice of Work?

☐ No

☒ Yes - state size of area to be reclaimed: 35,000 m<sup>2</sup>, or 3.5 hectares

Estimated Cost of Reclamation:

Applicant

\$ 5,000.00

Mining Division

\$ \_\_\_\_\_





Ministry of Energy and Mines

# Sand and Gravel/Quarry Operation Notice of Work and Reclamation Program

Are settling ponds or other structures proposed to control sedimentation in surface run off?

☒ No☐ Yes - please complete Schedule B.

What is the average depth to the high groundwater table at the proposed excavation? 2.5 - 3.0 m

Elevation of the groundwater table was determined from (check applicable boxes):

☐ Existing area wells☐ Test wells drilled for this purpose☐ Test pits☒ Other (describe) EXISTING PIT

Describe measures proposed to protect groundwater quantity and quality from potential impacts of the proposed mining activity (i.e. fuel management program, buffer above water table, etc.):

EXCAVATIONS ARE PRESENTLY INTO THE WATER TABLE.  
NEW OPERATOR WILL BACKFILL WITH SUITABLE MATERIAL TO 9.15m

Note that excavations below the groundwater table may require special approval from the Inspector OR HIGHER

Will fuel/lubricants be stored on site?

☒ No☐ Yes

If yes, handling, transportation and storage must adhere to B.C. Environment standards as detailed in "Summary of Environmental Standards and Guidelines for Fuel Handling, Transportation and Storage, 2nd edition"

Shortest distance between proposed excavation to nearest residence: 250 m, or 0.25 km

Shortest distance between proposed excavation to nearest residential water source: 250 m, or 0.25 km

Describe measures proposed to prevent inadvertent access of unauthorized persons on the mine site (i.e. fencing, vegetative barriers, berms, etc.): SITE WILL BE FENCED WITH A LOCKABLE GATE AT VEHICLE ENTRANCE AND WARNING SIGNS POSTED (AS EXISTING ARRANGEMENT)

Are measures proposed to minimize noise impacts of the operation? (i.e. equipment selection, restrictions on hours of operation, noise barriers, etc.) ☐ No ☒ Yes - Please describe:

EQUIPMENT WILL MAINLY BE WORKING BELOW EXISTING GROUND LEVEL - PIT WALLS WILL ACT AS A NOISE BARRIER

Are measures proposed to minimize dust impacts of the proposed operation? (i.e. apply dust suppressants, water sprays, wind breaks, vegetation, etc.) ☐ No ☒ Yes - Please describe:

WATER ACCESS & PIT ROADS BY WATER TRUCK  
EXISTING BUFFER VEGETATION TO REMAIN

Are measures proposed to minimize visual impacts of the proposed operation? (i.e. vegetative barriers, berms, green belts, etc.)

☐ No☒ Yes - Please describe:

PIT IS WELL SCREENED FROM THE ROAD BY TREES - VEGETATIVE BARRIER.

## OCCUPATIONAL FIRST AID

First Aid Supplies and communication at the mine site are required as per Parts 3.6.1 to 3.6.3 of the Code.

Describe the means of communication from the mine site: CELL PHONES

Location of nearest hospital: MISSION

Travel time to hospital: 15 MINUTES

Estimated number of employees on site (includes contractors): 2

Describe First Aid Level and supplies: BC #1 & WCB TYPE FIRST AID KITS ON SITE, IN PICK-UP & OFFICE TRAILER.

I, DAVE VERNON, hereby make application to undertake the mining activities described in this Notice, and in accordance with the Mines Act and the Health, Safety and Reclamation Code for Mines in British Columbia.

Applicant Signature [Signature]

Date

March 26 07

Page 78

Revised: 06/ECM-2012-00205



## Schedule A

## Maps and Cross Sections

Applications will be returned if not accompanied by legible and suitable maps

**Schedule A1 (compulsory):** Location map (1:50,000 scale) ✓

Indicate the location of the property with respect to local communities

**Schedule A2 (compulsory):** Local Features map (1:20,000 scale - TRIM map)

Map should show topography, water courses, existing access and/or proposed new or upgraded access, the location of proposed mining area, and location (if known) of historical/cultural resources. If applicable, locate the boundaries of Forest Land Reserves and Agricultural Land Reserves on the map. ✓

**Schedule A3 (compulsory):** Land Title map

The subject parcel and adjacent properties must be clearly identified and the following items detailed:

- location of all structures and wells within 300 metres of proposed mining area
- identify current land uses on adjoining properties (i.e. forested, chicken farm, etc.) ✓

**Schedule A4:** Mineral Tenure map (at scale maintained by Mineral Titles Branch for subject area)

Mineral Tenure map(s) are required if quarrying a mineral (as defined under the Mineral Tenure Act)

**Schedule A5:** Terrain/geology and Terrain Stability Map (1:20,000 scale)

Terrain map(s) are required:

- for excavations on slopes greater than 50%, and/or
- for excavations in areas with a stability rating of Class IV or V; or
- if requested by the Inspector

The Inspector may require a "Detailed Terrain Stability Assessment" and/or a "Soil Erosion Hazard Assessment".

**Schedule A6 (compulsory):** Mine Development Plan at 1:5,000 or more detailed scale ✓

The District Inspector may require a mine plan to be prepared by a suitable qualified P.Eng/Geol based on a topographical site survey, terrain stability and erosion hazard assessments.

All plans and sections must indicate the scale and orientation of the drawing (please refer to attached sample)

1) Plan View of Proposed Development

Must illustrate the location of:

- Property boundaries and set back of excavation from property boundary
- Watercourses and drainages (wet, dry or intermittent) on the property and within 150 metres of its boundaries ✓
- All previous surface workings, the final boundaries of proposed excavation, and boundaries of excavation at the end of development described in Notice of Work (please specify on drawing)
- Access roads, including development roads within the pit and access to public road(s)
- All proposed and existing stockpiles (i.e. topsoil, overburden, product, etc.)

Where applicable, show location of:

- All settling ponds (for both surface run off and process water) and source of process water ✓
- Buildings and other facilities (i.e. fuel/lubricant storage, sanitary facilities, weigh scale, etc.)
- sediment control structures and the location of any point discharges from the property
- Fencing, berms, and/or vegetative buffers

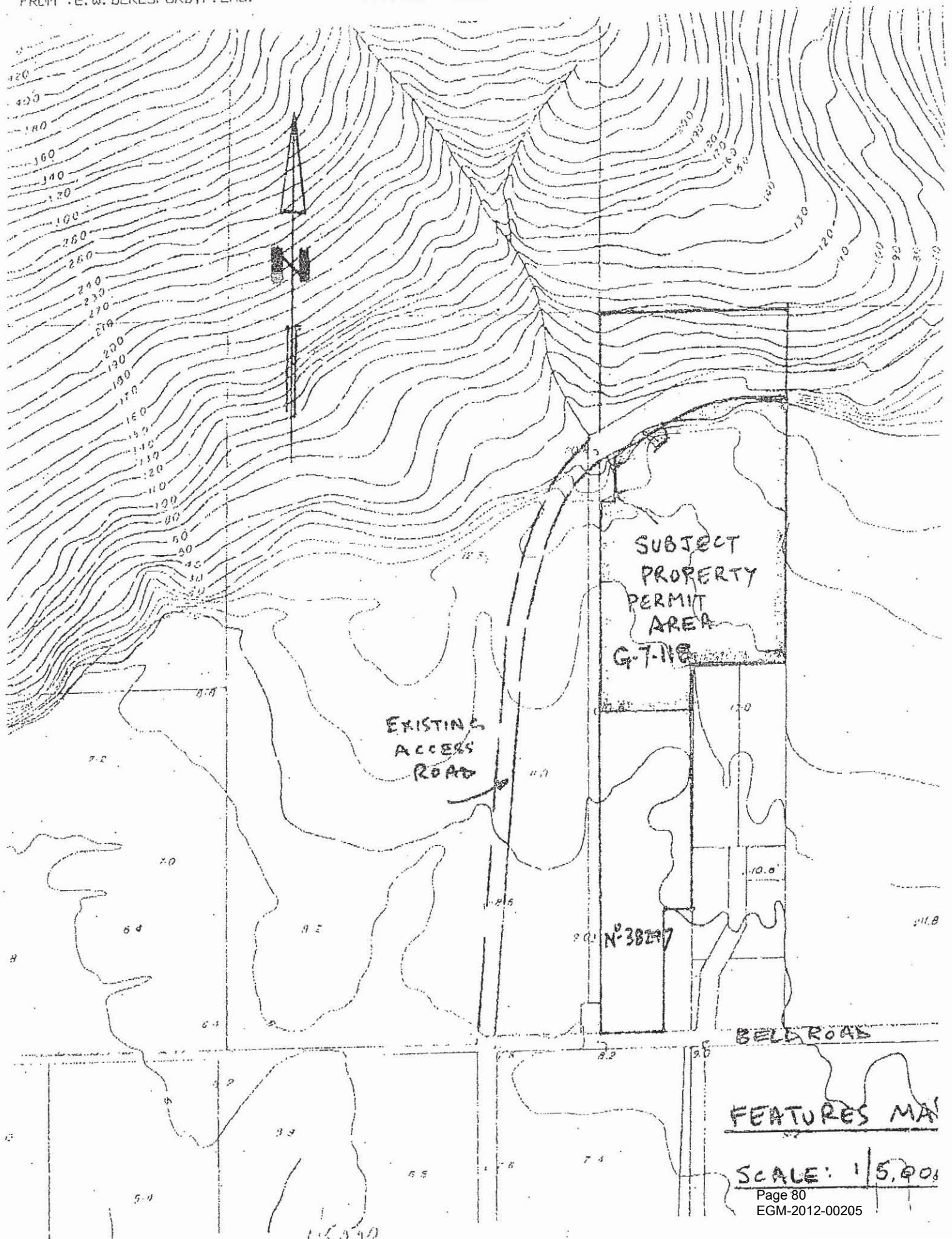
1) Cross Sections of Proposed Development

At least two cross sections, orientated perpendicular to each other, must be provided

The location of cross sections must be shown on the plan view map(s). Cross sections must illustrate:

- The original land surface and, if applicable, the groundwater table elevation
- Typical configuration during mining, indicating angle of slope and, where applicable, bench locations
- Proposed configuration on completion of reclamation ✓





FEATURES MAP

SCALE: 1/5,000



MINERAL RESOURCES DIVISION  
RESOURCE MANAGEMENT BRANCH

NOTICE OF WORK AND  
RECLAMATION PROGRAM ON A  
SAND AND GRAVEL AND/OR  
QUARRY OPERATION

Reclamation Permit: .....

Pursuant to Section 10 of the Mines Act, 1989

This form is to be completed and signed by a company or individual who wishes to operate sand and gravel pits or quarries. Keep one copy. Forward original to the District Inspector of Mines. Approval must be obtained under the Mines Act prior to commencement of work. The approval process will involve a referral to other agencies for their comments and/or gazetting and may take up to 60 days.

1. APPLICATION FOR: ☒ Sand and Gravel Pit ☐ Quarry

2. LOCATION: Property is known as: Worden Pit

Are the surface rights to any part of this property privately owned? ☒ Yes ☐ No

Name and address of private land owner: .

s.22

Is any part of this property on Crown Land? ☐ Yes ☒ No

If 'yes', please give Land Tenure Number(s): .....

Road, street, address, municipality/regional district ....

s.22

3. LEGAL DESCRIPTION: Rem. A. Plan 5133, E $\frac{1}{2}$  sec. 4, T.P. 21, ECM

NTS map sheet (ie. 094L/02E)...see attached map...

Latitude: ..... Longitude: .....

Access route(from nearest town to property): see attached map

4. OPERATOR/AGENT (Person or Company controlling property on behalf of the owner):

Name: R. Castle and Sons Ltd. Telephone No.: 826-7770

Company contact person: Len Castle Fax No.: n/a

Address: 7753 Taulbut St. City: Mission

Province: B.C. Postal Code: V2V 4X4

Signature of Operator/Agent:  Date: January 8, 1993

To whom does the Branch send correspondence regarding this notice? ☐ Owner ☒ Operator

**5. OWNER: (Title Holder)**

Name: ..

Address

s.22

Province

Signature of Owner (or letter of Authorization from Owner)

s.22

**6. NAME OF MANAGER:**...R...Castle...&...Sons...Ltd..... **Manager's Phone No.:**...826-7770.....  
 (Person responsible for management and operation of property)

**7. DURATION OF WORK**

Duration of work: From.....December 15, 1992..... To...December 31, 2002.....

**8. DESCRIPTION OF WORK**

Pit Run .....X..... Screening.....

Crushing ..... Washing .....

Blasting ..... Clearing trees:.....

Brief description of operation:.....

If Blasting, give details of explosives, magazines, etc. ....

Give number of existing explosive storage permit..... Name of Blaster: .....

**9. ESTIMATED** yearly extraction ..20000..... cubic metres (m<sup>3</sup>) or ..... tonnes

Estimated life of pit .....10..... years. Max. height of working face: .....8..... metres

Material being excavated is: ☒ Loose ☒ Consolidated ☐ Highly consolidated

**10. WATER SUPPLY:** (Subject to approval under the *Water Act*) if applicable

Describe the source of water supply: .....

Is this proposed gravel pit above/below or near a residential water source? ☐ Yes ☒ No

If yes, describe relationship to residential water source: .....

**11. WASTE WATER TREATMENT:** (Subject to approval under the *Waste Management Act*) if applicable

Describe the waste water treatment facility (size of settling pond, recycling, distance to nearest stream, etc)

.....n/a.....



**12. SURFACE DISTURBANCE**

(a) Gravel pit/Quarry working areas ..	Length ..280..... m	Width..200.... m	Area 56000... m <sup>2</sup>
(b) Settling ponds: # ...nil.....	Length ..... m	Width..... m	Area ..... m <sup>2</sup>
(c) Road construction: n/a	Total length ..... m	Width..... m	Area ..... m <sup>2</sup>
(d) Overburden and product stockpiles	Length ..... m	Width ..... m	Area ..... m <sup>2</sup>
(e) Plant and buildings area n/a	Length ..... m	Width..... m	Area ..... m <sup>2</sup>
(f) Other: describe: Area.....			.....m <sup>2</sup>

TOTAL SURFACE AREA DISTURBED: ..50000... m<sup>2</sup>EXISTING DISTURBANCE 10000.....m<sup>2</sup>PLANNED RECLAMATION: ..50000... m<sup>2</sup>**13. RECLAMATION PROGRAM:** Present land use: .....Gravel Pit.....

Proposed use of land after reclamation: .....pasture.....

Describe protective measures and proposed site reclamation methods with reference to the items listed below.

Topsoil handling (where applicable): .....strip, stockpile, and reuse.....

Backsloping of pit banks: ....2 to 1.....

Surface contouring: ....flat.....

Drainage control: ....natural percolation.....

Removal of buildings: ....none.....

Revegetation of disturbed areas: ....grass seeding.....

Other: .....

**14. EQUIPMENT LIST**

Note: all equipment to comply with the Mining Code

Number and Type	Size/Capacity	Number and Type	Size/Capacity
a) John Deere 590D	...3/4 yd.....	e).....	.....
b) (when required)	.....	f).....	.....
c).....	.....	g).....	.....
d).....	.....	h).....	.....

**15. ESTIMATED NUMBER OF EMPLOYEES ON SITE** (including contractors): ...1 as required**16. FIRST AID FACILITIES** (must comply with W.C.B. Regulations)

Describe methods of communication, emergency transportation, and type of first aid kit: .....

cellular phone, pickup, and standard first aid kit .....

Location of nearest hospital: ...Mission 13 km.... Travel time to hospital: ....10-15 min.....

**Note:** Topographic maps and plans of the proposed work area are required. One map should show the general location or access route and another map should detail the work area and contours.



659.67  
CORP  
RRK-2  
R.2

area and  
location  
of pit

80ac.

28.48ac.

A

SE 1/4 SEC. 4 T 21 E.C.M.

PLAN

5133

329.67

39ac.

FRAC.SW 1/4  
SEC.3 T 21  
E.C.M.

32ac.

PLAN

HESS

RD.

8650

2

229.67

435.6'

P.13970

8

BELL

RD.

26.4 ac.

18

H

PLAN

1912

PLAN

29.24 ac.

4

29269

PACIFIC

PLAN 21059

40250  
RD.

CANADIAN

159.67  
CORP  
TRK-2

R. 2

28.48 ac.

A

PLAN

5133

329.4

SE 1/4 SEC. 4 T 21 E.C.M.

access  
route

FRAC. SW 1/4  
SEC. 3 T 21  
E.C.M.

39 ac.

32 ac.

PLAN

HESS

RD. 4

3

8650

2

435.6'

P. 13970

229.67

BELL

RD.

26.4 ac.

18

40250  
RD.

PLAN

1912

CANADIAN

PLAN

29.24 ac.

4

2926

PACIFIC

PLAN 21059





Ministry of Energy and Mines

Sand and Gravel/Quarry Operation  
Notice of Work and  
Reclamation Program

The information on this form and any supporting documents are subject to the *Freedom of Information and Protection of Privacy Act*. The information requested on this form is collected and used for the purpose of administering the *Mines Act & Health, Safety and Reclamation Code for Mines in British Columbia*. The *Mines Act* of British Columbia also authorizes the collection of the requested information on this form. The completed form is routinely available to the public. Questions about how the *Freedom of Information and Protection of Privacy Act* applies to the information collected on this form can be directed to the Information Access and Request Service Branch at (250) 952-0514; fax (250) 952-0739 or write to: PO Box 9325 Stn Prov Gov't, Victoria, British Columbia, V8W 9N3.

Application is for: ☒ Sand and Gravel Mine☐ Rock Quarry

This application is for (check one):

☐ Development☒ Amendment to existing permit Permit # G-7-118

Application is being made by:

☒ Owner (Private property)☒ Operator/Agent (Person or company making application on Crown land or on private property not owned by applicant)Name DAVE VERNON

E-mail Address: \_\_\_\_\_

Company (if applicable) EKSET CONTRACTING LTDAddress 100 19429 54 AVECity SURREYBus. Phone (604) 220-4677Province B.C.Postal Code V3S-7X2Fax (604) 539-7230

## LOCATION INFORMATION - Maps are mandatory under Schedule A

Name of Mine (What will the operation be called when in production?): BELL ROAD PITLegal Description of Property: REM A E 1/2 OF SE 1/4 SEC. 4, TWP. 21, ECM.  
REF. PLAN 5133Street Address of Property, if applicable: #35297 BELL ROAD  
DEWDNEYAccess route from nearest town to property: 7 km EAST OF MISSION ON HWY #7  
TURN LEFT ON HAWKINS PICKLE ROAD GO 4 km THEN 0.5 km ON LOGGING ROAD.

B.C. Geographic System Map Sheet Number(s) [i.e. TRIM 093L006] \_\_\_\_\_

Northing: \_\_\_\_\_

Easting: \_\_\_\_\_

UTM Zone: \_\_\_\_\_

or NTS Map Sheet Number(s) [i.e. NTS 093L14E]: 092 C1/ELatitude: 49° 10' 7" NLongitude: 122° 09' 41" W

## OWNERSHIP (Complete a, b or c if the land is not privately held by applicant)

a) Proposed mine is on private land:

Name of property owner FRASIER VALLEY AGGREGATES LTDAddress 100 19429 54 AVECity SURREYBus. Phone (604) 220-4677Province B.C.Postal Code V3S-7X2Fax (604) 539-7230

Signature of owner agreeing to the mining operation proposed in this application (or attach letter of authorization signed by owner):

Name: DAVE VERNONDate: JAN 28, 2008

b) Proposed mine is on Crown land:

Assets and Lands Corporation (ALC) file reference number: N/ALicense of Occupation/Lease number: N/A Expiry date of Licence/Lease (y/m/d): N/A

c) Proposed mine is a mineral quarry (as defined under the Mineral Tenure Act):

What mineral is proposed to be mined? N/A

Mineral Claim/Lease Tenure Number(s): \_\_\_\_\_

## MANAGEMENT

Correspondence regarding this application should be sent to:

☐ Owner

or

☒ Operator/Agent

The mine manager (Mines Act Sections 21 and 22) responsible for management and operation of the mine will be:

Name: DAVE VERNONBus. Phone: (604) 220-4677



**LAND USE**

1) **Cultural Heritage Resources** (A cultural heritage resource is defined as "an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people". B.C. law requires the conservation of these resources. It is the responsibility of the applicant to identify these resources.

Are you aware of any cultural heritage resources present on the property?

- ☐ Yes - please attach a plan for the conservation of cultural heritage resources on the property  
☒ No - if cultural heritage resources are discovered while mining, you are required to report them to the Mining Division.

**2) Soil Conservation**

Average depth of overburden (material, including topsoil, overlying sand, gravel and/or rock): BACKFILL cm, or 7.5-8.0m  
Average depth of topsoil (Surface to maximum rooting depth of plants, plus 15 cm.): 30 cm, or 0.3 m

Measures to stabilize soil/overburden stockpiles and control noxious weeds:

SPRAY STOCKPILES FOR NOXIOUS WEEDS - COVER WITH SOIL AND SEED TO GRASS AFTER BACKFILLING THE PIT.

Topsoil must be conserved for reclamation of the mine site.

Removal of topsoil from the site requires written approval of the Inspector

**3) End Land Use**

Is the site within the Agricultural Land Reserve?

- ☒ No ☐ Yes - authorization for soil removal from the Land Reserve Commission and Regional District must be obtained. Provide permit application number if available: \_\_\_\_\_

Is the site within the Forest Land Reserve?

- ☒ No ☐ Yes - authorization from the Land Reserve Commission must be obtained

Is the site within a Tree Farm Licence?

- ☒ No ☐ Yes - state the TFL number: \_\_\_\_\_

Name of TFL holder: \_\_\_\_\_

Does the local government have a Soil Removal Bylaw?

- ☐ No ☒ Yes - please be aware that a Soil Removal Permit may be required by the local government

Official Community Plan designation for the site is: GRAVEL PIT / RESOURCE EXTRACTION

Current land use zoning for the site is: R-2

Proposed end land use is: PASTURE LAND

**4) Reclamation of Site** (If space provided below is insufficient, please attach separate sheet describing proposed reclamation)

Reclamation measures and schedule proposed to achieve end land use objectives as per part 10.7.4 and 10.7.5 of the Health Safety and Reclamation Code for Mines in British Columbia (hereafter referred to as the Code):

PROPOSED TO BACKFILL THE EXISTING EXCAVATED PIT TO THE CREST OF THE EXCAVATIONS TO ORIGINAL GROUND LEVEL CONTOURS.

TOPSOIL AND SEED TO GRASS.  
ATTACHED LETTER FROM MR. B. M. FRENCH P. Ag. of C & F RESOURCE CONSULTANTS LTD.

If backfilling of pits or pit slopes is proposed in the final configuration for reclamation, provide details of materials to be used and placement procedure: SITE BACKFILLING SUPERVISED BY C & F LAND RESOURCE CONSULTANTS LTD.  
BACKFILL MATERIAL IMPORTED ONTO THE SITE - MUST BE FREE FROM CONTAMINANTS AND MEETS THE STANDARDS FOR INDUSTRIAL LAND USE UNDER THE CONTAMINATED SITE REGULATION.



**MINE DEVELOPMENT PLAN** (Maps are mandatory - please refer to Schedule A)

Unless otherwise required by the Inspector, complete the following mine development plan and prepare development maps and cross sections based on a period of 5 years or less. Mines operating for longer than 5 years, may be required to file updated Notices of Work every 5 years over the life of the mine at the discretion of the District Inspector.

Proposed start date (y/m/d): 2008/02/01Proposed finish date (y/m/d): 2010/08/31

The mining operation will generally be (check one)

☒ Continuous (operates throughout the year)☐ Seasonal, usually operates from \_\_\_\_\_ to \_\_\_\_\_☐ Intermittent (occasionally operates with extended periods of inactivity)Estimate total mineable reserves over the life of the mine: NIL tonnes, or NIL m<sup>3</sup>Estimated annual extraction from site: NIL tonnes/yr, or NIL m<sup>3</sup>/yr

Application must be made to the Environmental Assessment Office if estimated extraction for sand/gravel production is 500,000 tonnes/yr, or 1,000,000 tonnes over 4 years; or if estimated extraction is 250,000 tonnes/yr, for quarried product.

Mineral quarries producing more than 1000 tonnes per year per claim require a mining lease.

Description of Work (Check appropriate boxes):

☐ Excavation of Pit Run☐ Washing - please complete Schedule B☐ Crushing☐ Blasting - please complete Schedule C☐ Mechanical Screening☐ Timber Clearing \* - estimate volume of timber: NIL m<sup>3</sup>

\* Timber Clearing on Crown Land requires a Free Use Permit or License to Cut from the Ministry of Forests

Provide a brief description of operation, including proposed work schedule (i.e. hours, days of usual operation): \_\_\_\_\_

**RECLAMATION PROJECT**

PROPOSED TO IMPORT APPROVED FILL MATERIAL ONTO THE SITE AND PLACE MATERIAL INTO THE MINED OUT PIT. COMPACT FILL WITH A D6 CAT DOZER IN 1.5 METER LIFTS. TO FILL TO ORIGINAL GROUND LEVEL.

TOPSOIL & SEED TO GRASS.

OPERATING HOURS 7:00 am To 6:00 pm, 5 days/week - SATURDAYS 8:00 am - 4:00 pm

Equipment List: (Please attach separate list if space provided below is insufficient)

IF REQUIRED.

Type of Machine	Make/Model	Size/Capacity	# on Site
D6 DOZER	CAT	D6	1
FRONT END LOADER	CAT	988	1
OFFICE TRAILER / EXISTING WEIGHT SCALE (FIRST AID)			

**Surface Disturbance** - Information provided must be documented in development maps submitted under Schedule A(Note that 10,000 m<sup>2</sup> = 1 hectare)Existing Disturbance (Work areas, unreclaimed areas, access roads, etc.) 55,000 m<sup>2</sup>, or 5.5 hectaresProposed Mining Disturbance (New work areas, settling ponds, access roads, buildings, etc. to be developed within the time frame of this Notice of Work) NIL m<sup>2</sup>, or NIL hectaresTotal Disturbed Area (Existing + Proposed Disturbance) 55,000 m<sup>2</sup>, or 5.5 hectares

Will any portion of this disturbance be reclaimed within the time frame of this Notice of Work?

☐ No☒ Yes - state size of area to be reclaimed: 55,000 m<sup>2</sup>, or 5.5 hectares

Estimated Cost of Reclamation:

Applicant

\$

Mining Division

\$

5,000.00 PERMIT 4-7-118





Are settling ponds or other structures proposed to control sedimentation in surface run off?

☒ No☐ Yes - please complete Schedule BWhat is the average depth to the high groundwater table at the proposed excavation? 8-21.90 m

Elevation of the groundwater table was determined from (check applicable boxes):

☐ Existing area wells☐ Test wells drilled for this purpose☐ Test pits☐ Other (describe) OBSERVATIONS ON SITEDescribe measures proposed to protect groundwater quantity and quality from potential impacts of the proposed mining activity (i.e. fuel management program, buffer above water table, etc.): COMPACT BACKFILL AS MATERIAL IS PLACED IN THE MINED OUT PIT.  
NO FURTHER EXCAVATION IN THE PIT.*Note that excavations below the groundwater table may require special approval from the Inspector*

Will fuel/lubricants be stored on site?

☒ No☐ Yes

If yes, handling, transportation and storage must adhere to B.C. Environment standards as detailed in "Summary of Environmental Standards and Guidelines for Fuel Handling, Transportation and Storage, 2nd edition"

Shortest distance between proposed excavation to nearest residence: 250 m, or 0.25 kmShortest distance between proposed excavation to nearest residential water source: 250 m, or 0.25 kmDescribe measures proposed to prevent inadvertent access of unauthorized persons on the mine site (i.e. fencing, vegetative barriers, berms, etc.): SITE IS FENCED WITH A LOCKABLE GATE AT THE VEHICULAR ENTRANCE. SIGNS POSTED WARNING & NO UNAUTHORISED ENTRY TO THE SITE.Are measures proposed to minimize noise impacts of the operation? (i.e. equipment selection, restrictions on hours of operation, noise barriers, etc.) ☐ No ☒ Yes - Please describe:EQUIPMENT MAINLY WORKING BELOW GROUND LEVEL - SMALL MACHINE. PIT WALLS WILL ACT AS A SOUND BUFFER.Are measures proposed to minimize dust impacts of the proposed operation? (i.e. apply dust suppressants, water sprays, wind breaks, vegetation, etc.) ☐ No ☒ Yes - Please describe:WATER SPRAYS TO ACCESS ROAD AS REQUIRED AND TO PLACEMENT FILL.

Are measures proposed to minimize visual impacts of the proposed operation? (i.e. vegetative barriers, berms, green belts, etc.)

☐ No☒ Yes - Please describe:PIT IS WELL SCREENED FROM THE ROAD BY EXISTING TREES / VEGETATION.**OCCUPATIONAL FIRST AID**

First Aid Supplies and communication at the mine site are required as per Parts 3.6.1 to 3.6.3 of the Code.

Describe the means of communication from the mine site: CELL PHONESLocation of nearest hospital: MISSIONTravel time to hospital: 15 minutes Estimated number of employees on site (includes contractors):Describe First Aid Level and supplies: BC #1 & WCB TYPE FIRST AID KITS ON SITE IN PICK-UP & OFFICE TRAILER.I, DAVE VERNON, hereby make application to undertake the mining activities described in this Notice, and in accordance with the Mines Act and the Health, Safety and Reclamation Code for Mines in British Columbia.Applicant Signature [Signature]Date JAN 28 08



Indicate the location of the property with respect to local communities

✓ Permit Application

**Schedule A2 (compulsory):** Local Features map (1:20,000 scale - TRIM map)

Map should show topography, water courses, existing access and/or proposed new or upgraded access, the location of proposed mining area, and location (if known) of historical/cultural resources. If applicable, locate the boundaries of Forest Land Reserves and Agricultural Land Reserves on the map. ✓  
Ditto

**Schedule A3 (compulsory):** Land Title map

The subject parcel and adjacent properties must be clearly identified and the following items detailed:

- location of all structures and wells within 200 metres of proposed mining area
  - identify current land uses on adjoining properties (i.e. forested, chicken farm, etc.)
- ✓ Ditto

**Schedule A4:** Mineral Tenure map (at scale maintained by Mineral Titles Branch for subject area)

Mineral Tenure map(s) are required if quarrying a mineral (as defined under the Mineral Tenure Act)

**Schedule A5:** Terrain/geology and Terrain Stability Map (1:20,000 scale)

Terrain map(s) are required:

- for excavations on slopes greater than 50%, and/or
- for excavations in areas with a stability rating of Class IV or V; or
- if requested by the Inspector

The Inspector may require a "Detailed Terrain Stability Assessment" and/or a "Soil Erosion Hazard Assessment".

**Schedule A6 (compulsory):** Mine Development Plan at 1:5,000 or more detailed scale

The District Inspector may require a mine plan to be prepared by a suitable qualified P.Eng/Geol based on a topographical site survey, terrain stability and erosion hazard assessments. ✓

All plans and sections must indicate the scale and orientation of the drawing (please refer to attached sample)

1) Plan View of Proposed Development

Must illustrate the location of:

- Property boundaries and set back of excavation from property boundary
  - Watercourses and drainages (wet, dry or intermittent) on the property and within 150 metres of its boundaries
  - All previous surface workings, the final boundaries of proposed excavation, and boundaries of excavation at the end of development described in Notice of Work (please specify on drawing)
  - Access roads, including development roads within the pit and access to public road(s)
  - All proposed and existing stockpiles (i.e. topsoil, overburden, product, etc.)
- ✓

Where applicable, show location of:

- All settling ponds (for both surface run off and process water) and source of process water
  - Buildings and other facilities (i.e. fuel/lubricant storage, sanitary facilities, weigh scale, etc.)
  - sediment control structures and the location of any point discharges from the property
  - Fencing, berms, and/or vegetative buffers
- ✓

1) Cross Sections of Proposed Development

At least two cross sections, orientated perpendicular to each other, must be provided

The location of cross sections must be shown on the plan view map(s). Cross sections must illustrate:

- The original land surface and, if applicable, the groundwater table elevation
  - Typical configuration during mining, indicating angle of slope and, where applicable, bench locations
  - Proposed configuration on completion of reclamation
- ✓



The Best Place on Earth

Ph: (250) 952-0475

January 10, 2008

File: G-7-118  
14675-55-04

R.Castle & Sons Ltd.  
7753 Taulbut Street  
Mission, BC  
V2V 4X4

Dear Sir:

Re: Reclamation Permit G-7-118  
Pursuant to the Mines Act

s.21

Your file is now closed.

Yours very truly,

Douglas E. Sweeney, P.Geo., M.Sc.  
Chief Inspector of Mines

DES:mb

cc: Ian Webster, Victoria

s.21

