

**PLACER MINING LAND USE APPROVAL**

Pursuant to the Yukon Placer Mining Act and the regulations made thereunder, the Yukon Territory Water Board hereby grants a Class IV approval to:

Ralph Troberg  
Box 105  
Dawson City, Yukon Y0B 1G0

**APPROVAL NUMBER:** LP00236                      **WATER LICENCE:** PM00-173

**WATER USE AREA:** 2                              **STREAM CLASSIFICATION:** IV

**LOCATION:**                      Latitude: 63° 58'      Longitude: 139° 20'

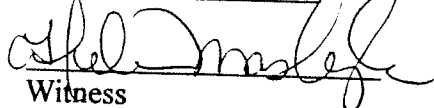
**EFFECTIVE DATE:**                      The effective date of this approval shall be the date on which the signature of the Chairperson of the Yukon Territory Water Board is affixed.

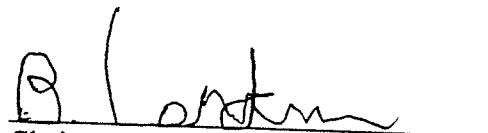
**EXPIRY DATE:**                      July 1, 2010

This approval shall be subject to the restrictions and conditions contained herein and to the restrictions and conditions contained in the Yukon Placer Mining Act and the regulations made thereunder.

Dated this 20th day of

October 2000

  
Witness

  
Chairperson  
Yukon Territory Water Board

## PART A DEFINITIONS

"Act": means the Yukon Placer Mining Act and regulations made thereunder.

"Application" means application for water use licence PM00-173 and placer land use approval AP00236 and any subsequent information presented to the Board.

"Claim": means any parcel of land located or granted for placer mining and mining property, includes besides claims, any ditches or water rights used for mining thereon, and all other things belonging thereto or used in the working thereof for mining purposes.

"Operation": means a placer land use operation.

"Operator" means a person who engages in a placer land use operation.

"Road": means a pathway for vehicular traffic the construction of which requires the movement of rock or earth.

"Special Waste Management Facility" means an operation which handles or disposes of special wastes generated by other persons or operations and which is approved in accordance with the provisions of the Special Waste Regulations of the Environment Act of the Yukon Territory.

"Stripping": means evacuation, undertaken as part of an operation, that is limited to the removal of trees, brush and vegetative mat.

"Trail": means an access to a site within a claim or lease that is constructed with little or no movement of rock or earth.

"Trenching": means excavation that extends below the vegetative mat, undertaken as part of an operation.

"Vegetative Mat": means the organic surface of soil, characterized by the accumulation of organic matter, or partly decomposed organic matter, derived mainly from leaves, twigs and woody materials, and includes the root mass of living vegetation.

## PART B GENERAL CONDITIONS

1. This approval applies to those claims that are included in water use licence PM00-173.
2. The expiry date of this approval shall be July 1, 2010.

3. All operating activities must comply with the operating conditions contained in Schedule 1 of the Yukon Placer Mining Land Use Regulations and with the operating plan AP00236 submitted. Where there is a discrepancy between the operating plan submitted and this approval, the terms of this approval shall prevail.
4. The Operator must contact Indian Affairs and Northern Development, Mining Inspections Division, (867) 667-3209, every year before beginning operations for the season and at least two weeks prior to leaving the site at the end of every season.
5. All debris, equipment, fuel barrels, scrap metal and other waste at the work site must be disposed of safely, so as not to attract wildlife, by removal or incineration.
6. All incidents with wildlife must be reported to the District Conservation Officer in Dawson City.
7. Removed brush must not be piled so that it blocks movement of wildlife or people.
8. All risk of fire hazards must be avoided.
9. Nothing in this approval limits the application of any Federal, Territorial, First Nation law, local regulations, ordinances or bylaws.

#### **PART C RESTORATION PRACTICES**

10. To re-establish the vegetative mat, all areas disturbed during the mining operation must be left in a condition conducive to successful re-vegetation by native plant species or by species adaptable to that environment.
11. All areas disturbed during the mining operation must be re-sloped, contoured, or otherwise stabilized to prevent long term soil erosion, slumping and subsidence and to comply with the condition for re-establishment of the vegetative mat.
12. Tailings and overburden or other relocated materials must be levelled and contoured into low relief piles. The slope of these low relief piles must be no steeper than two horizontal to one vertical. Any such slope over fifteen (15) metres in height must be benched.
13. The following conditions apply to stripping:
  - a) trees and brush must be cleared first,
  - b) topsoil and organic material must be stockpiled separately,

- c) overburden must be located no closer than five (5) metres from any standing trees,
  - d) overburden may be stacked along valley wall but must be contoured to blend with the natural topography.
14. All trenching carried out by hand or with hand-held tools must be methodical. The trenches must be stabilized and marked in such a way as to minimize risk to the public.
15. If mechanized equipment is used for trenching, all material must be segregated into two piles:
- a) vegetative mat; and
  - b) overburden and bedrock
- to be conserved and used for backfilling the trenches.
16. Backfilling of the trenches must be conducted by replacing overburden and bedrock first, then covering with the vegetative mat.

#### **PART D ARCHAEOLOGICAL AND BURIAL SITES**

17. All archaeological sites and burial grounds must be avoided.
18. If archaeological sites or burial sites are encountered, they must be:
- a) marked and reported to the Chief of Placer Land Use; and
  - b) protected from further disturbance until authorization is given by the Chief of Placer Land Use.

#### **PART E ACCESS ROADS AND/OR TRAILS**

19. All vehicles must be operated within the design limits or tolerances of the road or trail. If the design limits or tolerances are unknown, then the operation of vehicles must not cause significant rutting or gouging of a road or trail.
20. If significant rutting or gouging occurs, the road or trail must be restored.

21. If there is no road or trail, the Operator must comply with the following conditions when mobilizing heavy equipment to a site:
- a) routes used by vehicles must be reconnoitred and used in a way that minimizes ground disturbance,
  - b) vehicle use must be suspended or relocated to ground that is capable of bearing the vehicle if rutting and grouting could lead to ongoing erosion, ponding, or permafrost degradation, and the former routes must be restored in compliance with Part C of this approval,
  - c) tracked vehicles with blades should be provided with mushroom pads to minimize terrain damage,
  - d) dozers should travel with the blade raised, so as not to rip up the vegetative mat,
  - e) the route must avoid any identified critical wildlife habitat,
  - f) vehicle travel should be temporarily suspended to avoid disturbance to wildlife during critical periods,
  - g) vehicles may only be mobilized in ice-rich permafrost areas when the active layer is frozen; or when the surface is strong enough to support the vehicle without excessive permafrost degradation.
22. At abandonment, compacted road surfaces must be scarified to promote re-vegetation.

#### **PART F CAMPS**

23. All campsites must be kept clean and tidy.
24. All buildings and other facilities must be on well-drained soil.
25. Combustible and odorous kitchen waste must not be permitted to accumulate.
26. All wood debris, empty drums, junked equipment and metal waste must be kept in a secure area for final disposal.
27. At seasonal closure, any materials that may result in injury to wildlife such as wire, steel, glass or plastic must be either removed or safely stored.

28. At final decommissioning of the site everything must be removed, including all buildings, machinery, materials, fuel drums, used hydrocarbons, unburied solid waste, and metal waste including junked vehicles.
29. Compacted soil must be loosened to allow for natural re-vegetation. Areas not likely to re-vegetate naturally must be spread with topsoil.

#### **PART G FUEL HANDLING AND TRANSPORTATION**

30. A fuel spill emergency plan must be submitted for approval to the Chief of Placer Land Use prior to commencing the operation, a copy of it posted on-site and a copy sent to the Yukon Territory Water Board.
31. The fuel spill emergency plan must contain, at a minimum, the following:
  - a) how the spill will be contained,
  - b) the type of absorbents to be used for small spills,
  - c) a plan for spill clean-up in open water bodies, and
  - d) a provision to post the fuel spill report number on site.
32. All petroleum products and chemicals must be stored and transported in such a manner so as to prevent spillage into any watercourse or onto the surrounding land.
33. All fuel tanks that exceed 4,000 litres must be registered according to the Canadian Environmental Protection Act.
34. All fuel storage sites that exceeds 4,000 litres, must have a secondary containment facility.
35. The secondary containment facility must be constructed of material impervious to petroleum products; and
  - a) in the case of a single storage tank, of sufficient size to accommodate at least 110% of the fuel; or
  - b) if there is more than one storage tank, of sufficient size to accommodate 110% of the capacity of the largest tank or 10% of the total capacity of all the tanks, whichever size is greater.

36. All vehicles must be maintained and operated in a manner designed to prevent spills of fuel or oil.
37. All waste petroleum products must be safely stored on site or be removed to a special waste disposal facility approved under the Special Waste Regulations of the Environment Act of the Yukon.
38. Sufficient spill clean-up equipment and materials must be in a state of readiness in order to clean-up all fuel spills.
39. All fuel spills must be immediately contained, cleaned up and reported.
40. Should a spill or unauthorized discharge occur, the Operator must immediately contact the 24-hour Yukon Spill Report number (867) 667-7244 and an inspector. A detailed written report on any such event, including but not limited to, dates, quantities, parameters, causes and other relevant details and explanations must be submitted to the Yukon Territory Water Board and the Chief of Placer Land Use no later than ten (10) days after its occurrence.
41. All fuel and chemical storage areas must be stable and must be located at least thirty (30) metres away from the high water mark.
42. All fuel drums must be stored in an upright position.
43. All fuel and chemical containers must be sealed when not in use.
44. Every precaution must be taken to ensure that no spillage occurs during fuel transfers.
45. All containers of petroleum products with a capacity of 200 litres or greater must be clearly marked with the Operator's name, and the contents.

#### **PART H RECLAMATION**

46. Available overburden must be stockpiled for use in future site restoration and such stockpiles must be located where they will not adversely affect the water quality in any watercourse.
47. The mine site must be left in a stable condition at the end of each mining season.
48. All mined or otherwise disturbed ground surfaces, including cut banks, fill slopes and tailings piles, must be stabilized annually.

**PART I DECOMMISSIONING**

49. All waste materials, excluding silt and other natural materials, but including, and not limited to, scrap metal, machinery and parts, barrels and containers must be removed from the operation site.
50. The Operator must contact a Mining Inspector not less than two weeks prior to final decommissioning.
51. The Operator may apply for a certificate of completion at the termination of the operation, when all reclamation has been achieved.