

## CHECKLIST

A complete application for a water use licence for placer mining undertaking should include, but is not necessarily limited to, the following:

- \_\_\_ Completed Application for type B licence for Placer Mining. Ensure all sketches and diagrams are included and all questions are answered.
- \_\_\_ Complete Information Sheet - Dredge and Dredge-Like Mining Operations if this type of operation is being proposed. Ensure that all documents are included in application, (i.e. aerial photographs, etc.). Note: only one set of all maps are required if both this and a standard placer mining operation are proposed under one application. Location of each type of operation must be noted clearly on each set of documents.
- \_\_\_ Complete the Information Sheet for Mining Land Use and attach the appropriate application fee *of* \$250.00 for a one to five year plan or \$500.00 for a five to ten year plan, in Canadian Funds. Cheques or money order should be made out to the Territorial Treasurer.
- \_\_\_ Signed Schedule 4. It is important that you provide YWB with a means of contacting you.
- \_\_\_ Water Use Application fee of \$30.00 in Canadian Funds. Cheques or money order should be made out to the Territorial Treasurer.
- \_\_\_ Deposit which is the equivalent of one year's water use fees. Refer to Section 8 of the Regulation of the Waters Act or contact the YWB office for calculations. Cheques or money order in Canadian funds should be made out to the Territorial Treasurer.
- \_\_\_ The largest scale topographic map available (but not less than 1:50,000) or part of a map, showing the location of the proposed operation, settlement lands, private lands and access roads. If a part of a map is used, the map number and scale must be clearly marked.
- \_\_\_ A claim sheet or part of a claim sheet with the grants included in the application clearly outlined.
- \_\_\_ A copy of the relevant worksheets from the Fish Habitat Design, Operation and Reclamation Workbook and Worksheets for Placer Mining in the Yukon Territory.
- \_\_\_ A completed spill contingency plan.
- \_\_\_ Fish Habitat Design Worksheets for Placer Mining.

Your signature must be affixed to the following pages:

- |                               |                         |
|-------------------------------|-------------------------|
| ___ Schedule 4                | ___ Consultation Page   |
| ___ Environmental Health Page | ___ Agent Authorization |

## DEFINITIONS

- “Bar” means any area of sand, mud, shingle or gravel, located within the natural boundaries of a river, which does not support permanent vegetation and is exposed from water during part or most of the year. A bar may link an island to the mainland. The bar may also be considered to be a side channel of the river between the mainland and an island, in which water may or may not flow.
- “Black Muck” means soil consisting primarily of decomposed organic materials.
- “Camp Structure - Permanent” means a surface structure suitable for indefinite use, including any building with a foundation.
- “Camp Structure - Temporary” means surface structure used for more than one season which is not of permanent construction and does not include seasonal structures.
- “Camp Structure - Seasonal” means a surface structure that is dismantled and moved at the end of each mining season.
- “Corridor” means a path from which trees and brush have been cut to accommodate a trail, water line, fuel line or power line.
- “Crossing” means any bridge, causeway or structure or any embankment, cutting, excavation, land clearing or other works used or intended to be used to enable persons, vehicles or machinery to cross any watercourse.
- “Seasonal Diversion” means any direct or indirect alteration of a portion, or all, of the water flow in the route, bed, bank or boundaries of a river, stream, lake or watercourse and is in place for less than one year.
- “Temporary Diversion” means any direct or indirect alteration of a portion, or all, of the water flowing in the route, bed, bank or boundaries of a river, stream, lake or watercourse and is in place for a period of 2 to 5 years.
- “Permanent Diversion” means any direct or indirect alteration of a portion, or all, of the water flowing in the route, bed, bank or boundaries of a river, stream, lake or watercourse and are in place for a period of over 5 years.
- “Ford” means a shallow area in a watercourse than can be crossed by a vehicle.

- “Gross Vehicle Weight” means the overall total weight of a vehicle when loaded.
- “Instream Reservoir” means any water impoundment structure, where water is collected and retained for use, which is constructed in a natural channel or in a diversion.
- “Out of Steam Channel Reservoir” means a water impoundment structure, pond, or series of ponds where effluent is collected and retained, which is constructed out of the natural channel or the diversion and through which the entire creek flow may be directed at any time.
- “Instream Settling Facility” means a water impoundment structure, pond, or series of ponds where effluent is collected and retained for treatment, which is constructed in a natural channel or in a diversion.
- “Out of Steam Channel Settling Facility” means a water impoundment structure, pond, or series of ponds where effluent is collected and retained for treatment, which is constructed out of the natural channel or the diversion and through which the entire creek flow may be directed at any time.
- “Isolated Road” means a road that does not provide access to a public highway directly or through a private road.
- “Limit” means right or left side of the watercourse, looking downstream.
- “Low ground pressure vehicle” means a vehicle that applies 35 kPa of pressure or less to the ground surface.
- “Mining Cut” means the excavation from which gold bearing material is taken.
- “Natural boundary” means the visible high water mark of any body of water where the presence and action of the water is so common and usual and so long continued so as to mark upon the soil of the bed of the body of water a character that is distinct from the banks in respect to vegetation or to the nature of the soil. The best estimates of the edge of dormant or old side channels and marsh areas are considered to be natural boundaries.
- “Operation” means a placer land use operation.
- “Person-day” means the use of the campsite by one person during a period of 24 hours.

“Riparian Zone”	means a portion of the stream bank, either vegetated or not, immediately adjacent to the stream channel and is measured from the high water mark on each bank of the watercourse and follows the shape of the channel.
“Road”	means a pathway for vehicular traffic, the construction of which requires the movement of rock or earth.
“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.
“Watercourse”	means any stream, lake, pond, river, creek, spring, ravine, or swamp whether ordinarily containing water or not.
“Weir”	means a low dam built across a watercourse to raise the water level, divert the water, or control its flow.
“Work Area”	means any area disturbed and/or altered by mining activities, excluding any stable diversion channel.

## PLACER MINING INFORMATION SHEET

- |                                     |                                    |
|-------------------------------------|------------------------------------|
| A. Location                         | B. Placer Mining Grants Numbers    |
| C. Information about Water Sources  | D. Information about the valley    |
| E. Cross Section of Valley          | F. Watercourse crossings - bridges |
| G. Watercourse crossings - culverts | H. Watercourse crossings - fords   |
| I. Diversions                       | J. Reservoirs                      |
| K. Hydraulic Stripping              | L. Settling Facilities             |
| M. Waste Discharge                  | N. Mining plan                     |
| O. Seasonal Closure                 | P. Final site decommissioning      |
| Q. Other Affected Parties           |                                    |

Financial Responsibility

Officers of the Company/Corporation

Environmental Health

Agent Authorization

Application for a Class 4 Placer Mining Land Use Operation Plan

Fish Habitat Design Worksheets for Placer Mining

### A. LOCATION

1. Nearest Community: \_\_\_\_\_ NTS Map #: \_\_\_\_\_

*\*\*\*Include a 1:50000 map showing location of project.*

2. Project Location:

Range of Latitude: Most northerly point \_\_\_\_\_ to most southerly point \_\_\_\_\_

Range of Longitude: Most westerly point \_\_\_\_\_ to most easterly point \_\_\_\_\_

3. Watershed: \_\_\_\_\_ Habitat Suitability: \_\_\_\_\_

4. Does your mining plan require a site Specific Authorization from Fisheries and Oceans?  
Yes ( ) No ( )

5. Total number of grants: \_\_\_\_\_

6. Are you the registered owner of the grants? Yes ( ) No ( )

If the answer is no, then you must attach proof that you have the authority to use the grants. Typically this would be an agreement with the registered owner. You may black out confidential information, such as financial details.





*Margins and paper orientation have been adjusted for this page.*

**C. INFORMATION ABOUT WATER SOURCES**

#	Watercourse Name	Tributary of	Sluicing m <sup>3</sup> /day	Hydraulic Stripping m <sup>3</sup> /day	Total sluicing and hydraulic stripping m <sup>3</sup> /day	Estimated flow during spring freshet m <sup>3</sup> /day	Estimated flow during mining season m <sup>3</sup> /day	Estimated depth, in metres	Estimated width, in metres
1									
2									
3									
4									
5									
6									

If you plan to recycle, indicate how much makeup water you will require per day, for each water source:

#	Watercourse Name	Make up water m <sup>3</sup> /day	#	Watercourse Name	Make up water m <sup>3</sup> /day
1			3		
2			4		

**D. VALLEY INFORMATION - A separate page is required for each watercourse.**

Watercourse Name: \_\_\_\_\_

10. Estimate valley bottom width on each side of the watercourse at:

- a) Upper claims: Right Limit \_\_\_\_\_ Metres                      Left Limit \_\_\_\_\_ Metres
- b) Middle claims: Right Limit \_\_\_\_\_ Metres                      Left Limit \_\_\_\_\_ Metres
- c) Lower claims: Right Limit \_\_\_\_\_ Metres                      Left Limit \_\_\_\_\_ Metres

11. Average grade of valley slopes on each side of the watercourse:

- a) Upper claims: Left limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )  
Right limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )
- b) Middle claims: Left limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )  
Right limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )
- c) Lower claims: Left limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )  
Right limit: less than 10% ( ) 10% to 30% ( ) more than 30% ( )

12. Describe variations of the terrain such as swamp/marsh, canyon, waterfalls, bench, etc and any combination that may be useful:

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**E. CROSS SECTION OF VALLEY - A separate page is required for each watercourse.**

13. Watercourse Name: \_\_\_\_\_

Provide a sketch of the cross section of the valley in the upper, middle and lower sections of the watercourse. Indicate the approximate location of the existing creek channel, diversions, berms, settling facilities, reservoirs, valley side, area to be mined and distances between features.

**F. WATERCOURSE CROSSINGS - BRIDGES**

Complete this page if your project includes a bridge. Provide a separate page for each bridge, and for each watercourse.

Watercourse Name: \_\_\_\_\_

14. What is the vertical distance between the watercourse flow and the bottom of the bridge at high flow?  
\_\_\_\_\_ metres

15. What are the measurements of the bridge? \_\_\_\_\_

16. What materials will be used for the bridge deck? \_\_\_\_\_

17. What materials will be used for the bridge abutments? \_\_\_\_\_

18. Describe the construction method, including modifications to the bank of the watercourse and the methods that will be used to control the release of sediment:

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19. Describe the stream bed material, stream bank material and stream bank vegetation at the bridge location:

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Provide a cross section sketch of the bridge, including approaches, erosion protection of abutments or bank, bridge structure and distance from bridge deck to watercourse.

**G. WATERCOURSE CROSSINGS - CULVERTS**

Complete this page if your project includes culverts. Provide a separate page for each culvert, and for each watercourse.

Watercourse Name: \_\_\_\_\_

20. Grant number where the culvert will be located? \_\_\_\_\_

21. Type, Diameter and length of each culvert? \_\_\_\_\_

22. Describe how the culvert will be installed? \_\_\_\_\_

23. Describe the stream bed material, stream bank material and stream bank vegetation at the culvert location:

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24. What is the water depth at the culvert location? \_\_\_\_\_

25. Provide a schedule for installation, (i.e. during low flow, during a specific month):

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26. Describe the construction method and the methods that will be used to control the release of sediment:

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Provide a cross section sketch of the culvert, including the level of water during the mining season and during high flow.

**H. WATERCOURSE CROSSINGS - FORDS**

Complete this page if you will be fording a watercourse. Provide a separate page for each watercourse, and for each ford.

When filling out this page, please refer to the worksheet from the Fish Habitat Design, Operation and Reclamation Workbook for Placer Mining in the Yukon Territory.

Watercourse Name: \_\_\_\_\_ Ford # \_\_\_\_\_ of \_\_\_\_\_

27. List the grant numbers for the ford: \_\_\_\_\_

28. Does the ford exist ( ) or will it be constructed ( )?

29. If the ford is to be constructed, describe how the ford will be constructed:

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30. How frequently will the ford be used; (i.e. daily, twice daily, once per season)? \_\_\_\_\_

31. Identify the equipment that will be used when fording the creek, and how frequently it will be used:

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32. What is the approximate height of the banks of the watercourse at the ford?

\_\_\_\_\_ metres

33. Describe the construction method:

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**I. DIVERSIONS - Complete a separate page for each diversion.**

When filling out this page, you may want to refer to the worksheet from the Fish Habitat Design, Operation and Reclamation Workbook for Placer Mining in the Yukon Territory.

34. List the grant numbers on which the diversion will be located:

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35. Identify the type of diversion:

Into a seasonally dry channel ( )                      Total relocation of a watercourse ( )  
 End of season bypass ( ) I.e. a bypass around a settling facility.

36. Will the diversion be Temporary ( ) Seasonal ( ) or Permanent ( )?

37. What is the total length of the existing watercourse will be diverted, during the term of the licence proposed?  
 \_\_\_\_\_ metres

38. What are the approximate width, depth and gradient of the part of the watercourse that will be diverted?

Width \_\_\_\_\_ (m) Depth \_\_\_\_\_ (m) Gradient \_\_\_\_\_ (m)  
 Width \_\_\_\_\_ (m) Depth \_\_\_\_\_ (m) Gradient \_\_\_\_\_ (m)

39. What is the flood design level? \_\_\_\_\_

**J. RESERVOIRS**

When filling out this page, please refer to the worksheet from the Fish Habitat Design, Operation and Reclamation Workbook for Placer Mining in the Yukon Territory.

40. Location: Instream ( ) Out of stream ( )

41. Will the reservoir remain in one location? Yes ( ) No ( )

If yes, where will it be located (list grant numbers) \_\_\_\_\_,  
or will it move as mining progresses? Yes ( ) No ( )

42. Describe the method and control of water intake to either the sluicing plant or reservoir/pump pond, (e.g. gravity fed ditch, gate, direct access from creek, etc.):

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43. Describe the materials that will be used in the construction of the reservoir/pump pond:

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44. Will the instream reservoir/pump pond be one or more of the following?

Dug-out in the stream channel ( )      Wing Dam ( )      Cross Valley Dam ( )  
Dug-out off to the side in the stream bank ( )      Weir ( )

45. Provide dimensions for each Dam:

Length: \_\_\_\_\_ (m)      Height: \_\_\_\_\_ (m)  
Width at base: \_\_\_\_\_ (m)      Width at top (crest): \_\_\_\_\_ (m)      Freeboard: \_\_\_\_\_ ( )

46. Describe the foundation materials at the proposed dam location:

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47. Describe the materials and methods that will be used in dam construction:

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48. Describe the dam overflow structure, (e.g. culvert, bypass, spillway):

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49. Provide a cross section sketch of the dam, showing overflow structures:

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**K. HYDRAULIC STRIPPING**

50. List the grant numbers where hydraulic stripping will occur: \_\_\_\_\_

51. Describe the material that will be hydraulically stripped, (i.e. vegetation, black muck): \_\_\_\_\_

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52. Where will the stripped material be settled? \_\_\_\_\_

53. Explain how the material will be transported to the settling area, (i.e. ditch): \_\_\_\_\_
54. How will you meet the effluent standards? \_\_\_\_\_
55. Describe the final disposition of the stripped material. For example, will it remain in the settling area or be removed or will it be used for other purposes such as decommissioning?

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**L.                   SETTLING FACILITIES**

When filling out this section, please refer to the worksheet from the Fish Habitat Design, Operation and Reclamation Workbook for Placer Mining in the Yukon Territory.

56. Will the settling facilities be Instream ( ), Out of stream ( ) or Instream with total stream flow directed through the pond ( )?
57. If settling facilities are instream, provide a rationale for why this is necessary:

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58. If settling facilities are instream, what is the valley width at that location? \_\_\_\_\_
59. If you plan to direct total stream flow through the settling facilities, provide a rationale for why this is necessary:

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60. Size of settling facilities:

Pond 1:	length___m	width___m	depth___m	freeboard___m
Pond 2:	length___m	width___m	depth___m	freeboard___m
Pond 3:	length___m	width___m	depth___m	freeboard___m
Pond 4:	length___m	width___m	depth___m	freeboard___m

61. Will additional ponds be constructed as mining progresses? Explain:

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62. Will settling facilities be cleaned out during the mining season, where will the tailings piles and/or materials from the settling facilities be placed? \_\_\_\_\_

63. Identify the minimum distance between tailings piles and any watercourse. (Attach a sketch if it will be helpful.): \_\_\_\_\_

64. If settling facilities are to be instream, what steps will be taken to ensure the integrity of the settling facilities?

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65. Describe the materials to be used and the overflow structure(s) for instream settling facilities, (e.g. spillway, culvert etc) and give dimensions:

If pipe/culvert: Diameter \_\_\_\_\_ Centimeters

If spillway: Width \_\_\_\_\_ Metres                      Depth \_\_\_\_\_ Metres

Other: \_\_\_\_\_

Provide a sketch of the cross section of the settling facilities. Indicate the distance and slopes of the valley walls on each side of the watercourse, pond dimensions, overflow spillway and/or bypass channel.

**M. WASTE DISCHARGE**

66. Name the watercourse(s) that effluent will be discharged into:

\_\_\_\_\_ and/or \_\_\_\_\_  
 \_\_\_\_\_ and/or \_\_\_\_\_

67. Will there be a surface discharge to the watercourse from the settling facilities at any time, (e.g. through drainage ditch, culvert etc)? Yes ( ) No ( )

Explain: \_\_\_\_\_

68. If a drainage system is to be constructed provide the following information:

Distance between settling facilities: \_\_\_\_\_ metres

Distance from final settling facility to the watercourse: \_\_\_\_\_ metres

Width of drain: \_\_\_\_\_ metres      Depth of drain: \_\_\_\_\_ metres

69. Will the watercourse channel be used as a drain? Yes ( ) No ( )

70. If yes, provide the length of the creek channel used for this purpose and explain why the creek channel is required to transport effluent:

\_\_\_\_\_  
 \_\_\_\_\_

71. How wide is the valley where you require the use of the creek as a drain?

\_\_\_\_\_metres

72. On what grant numbers will the creek channel be used as a drain?

\_\_\_\_\_

73. Will discharge to watercourse be by seepage? Yes ( ) No ( )

74. If yes, describe why and if there will be an anticipated surface entry point into the watercourse:

\_\_\_\_\_  
 \_\_\_\_\_

**N. MINING PLAN SKETCH - Complete the sketch and include at a minimum the following:**

- \_\_\_\_\_ All (approximate) dimensions, (i.e. creek channel, diversion channel, settling facilities, reservoirs, dams/dikes, valley width, etc.).
  
- \_\_\_\_\_ All watercourses and the direction of the flow.
  
- \_\_\_\_\_ Top and bottom claim number in relation to the diversion, settling facilities and reservoirs.
  
- \_\_\_\_\_ The diversion and/or bypass channel, (indicate whether diversion is Permanent, Temporary or Seasonal).
  
- \_\_\_\_\_ The original watercourse channel.
  
- \_\_\_\_\_ The reservoirs and settling facilities.
  
- \_\_\_\_\_ All dams/dikes.
  
- \_\_\_\_\_ The water intake ditch location and/or overflow ditch, bypasses and/or discharge ditches.
  
- \_\_\_\_\_ The location of the sluice plant, pump and pipeline.
  
- \_\_\_\_\_ The applicable riparian zone.
  
- \_\_\_\_\_ A mining plan for each change or year, (if the plan is not the same for the length of the requested licence).

**O. SEASONAL CLOSURE**

75. If diversions are to remain in place or be directed back into the original channel, what measures will be taken to ensure channel stability and that they do not wash out during spring freshet?

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76. If a dam is used will it be breached at the end of the mining season? Yes ( ) No ( )

77. If yes, what measures will be taken to ensure that the applicable effluent standard will be met?

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78. If no, give reasons why the structure(s) will be left in place:

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79. Will a bypass be constructed around the dam? Yes ( ) No ( )

80. Will a bypass be constructed around instream reservoirs? Yes ( ) No ( )

81. What measures will be taken to ensure freshet does not wash out structure(s)?

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82. What measures will be taken to ensure the watercourse does not erode into out-of-stream reservoirs?

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83. What measures will be used to ensure the watercourse does not move into the intake ditch and/or work area?

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84. Will a bypass be constructed around the instream settling facilities? Yes ( ) No ( )

85. If yes, what measures will be taken to ensure that the effluent standard will be met when directing the water into the bypass?

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86. If no, give reasons why the instream settling facilities will be left in place and explain what steps will be taken to ensure the settling facilities can handle freshet:

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87. What measures will be taken to ensure that materials in the out-of-stream settling facilities will not erode into the water channel?

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**P. FINAL SITE DECOMMISSIONING**

88. If instream dams and/or settling facilities are to be left in place, explain why and what measures will be taken to ensure stability:

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89. Describe erosion control measures to be taken for settling facilities, reservoirs and diversions:

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90. Describe what measures will be taken for the out-of-stream works, (i.e. reservoirs, settling facilities etc.):

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**Q. OTHER AFFECTED PARTIES**

91. Identify by name the nearest upstream water user(s) or potentially effected parties (e.g. placer operation, trap lines, residential, recreational, etc.): \_\_\_\_\_

92. Identify by name the nearest downstream water user(s) or potentially effected parties, (e.g. placer operation, trap lines, residential, recreational, etc.):

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Section 12 (4) of the *Waters Act* states that the Board may not issue a water use licence unless the applicant satisfies the Board that the issuance of the licence will not likely adversely affect, in a significant way, the use of waters by any licensee.

93. Do you believe that your proposed use of water or deposit of waste will have an adverse affect on an existing Licensee? If so, please describe how you propose to mitigate this adverse effect:

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94. List the First Nations who's traditional territory encompasses, or is likely to be affected by, the project:

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95. Is the project on or near settlement land? Yes ( ) No ( )

96. Have you entered into a compensation agreement with any potentially-affected party? Yes ( ) No ( )

*\*\*\*If yes, please provide a copy of the agreement.*

## FINANCIAL RESPONSIBILITY

The *Waters Act* requires that the Yukon Water Board shall not issue a licence unless it is satisfied that the financial responsibility of the applicant, taking into account the applicant's past performance, is adequate for:

- (i) The completion of the appurtenant undertaking;
- (ii) Such mitigative measures as may be required; and
- (iii) The satisfactory maintenance and restoration of the site in the event of any future closing or abandonment of that undertaking.

This page must be completed and submitted as part of a water use application.

97. Do you have adequate financial resources for the undertaking proposed in this water use application?

Yes (  ) No (  )

This page needs to be completed only if the applicant is a corporation, limited company or other business entity.

**OFFICERS OF THE COMPANY/CORPORATION**

Before issuing a water licence in the name of a corporation, limited company or other business entity, the Yukon Water Board will require that the following declaration be completed. If this information is not provided, the Board will consider the application to be in the name of the individual who signed the Schedule 4.

I, \_\_\_\_\_ certify that (name of business entity)\_\_\_\_\_ is incorporated or registered pursuant to the *Business Corporations Act* of The Yukon Territory or is registered in the province of \_\_\_\_\_.

The officers of the company are - Name and Title (Please Print):

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_

In addition to this declaration, proof that the business entity is allowed to do business in the Yukon is required. Please attach an annual return, Form 1-04, or certificate of Registration.

If the applicant is a partnership, then any licence that is issued will be in the name of all partners.

### ENVIRONMENTAL HEALTH

This page of your application will be forwarded to Environmental Health, Government of Yukon, for their records. For information on the law and standards relating to private sewage and garbage disposal in the Yukon, or for advice on drinking water and/or food safety, please contact:

The Environmental Health Officer  
Environmental Health Services  
#2 Hospital Road  
Whitehorse, Yukon Y1A 3H8

Phone: (867) 667-8391  
Fax: (867) 667-8322

Drinking Water Source type (creek, river, lake, well, delivered, etc.) and description:

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Capacity of camp facilities: \_\_\_\_\_ (maximum number of persons that can use camp)

Are catered meals provided? Yes ( ) No ( )

What is the method of disposal of kitchen waste? \_\_\_ Burned \_\_\_ Community land fill \_\_\_ Other

Type of Sewage Disposal System: (check)

( ) Pit Privy or Privies: Year installed \_\_\_\_\_

( ) Septic Tank(s): Year installed \_\_\_\_\_ Liquid capacity \_\_\_\_\_ Gal ( ) Litres ( )

( ) Sewage Holding Tank(s): Year installed \_\_\_\_\_ Liquid capacity \_\_\_\_\_ Gal ( ) Litres ( )

( ) Other: Year installed \_\_\_\_\_ Description: \_\_\_\_\_

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I undertake to comply with the Territorial Law as it relates to private sewage and solid waste disposal facilities; and to inspect and monitor the sewage disposal system periodically for integrity and operation; maintain and utilize the system so as to protect the environment and human health; where the system includes a septic tank, de-sludge the tank at appropriate intervals to ensure that the sludge depth does not rise above one third of the liquid depth of the tank (usually recommended as every two years); where the system involves a ground absorption system, maintain and improve the system as necessary so as to effectively receive and adequately treat all sewage effluent emanating from the units served; and protect the system from vehicular traffic.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**AGENT AUTHORIZATION**

To be completed by individuals or companies who retain the service of an agent for the completion of the water use licence application and for correspondence and/or additional information required by the Water Board. Applicants may revoke this authorization by submitting your request in writing to the Water Board Office, at any time.

I, \_\_\_\_\_ hereby authorize (name of agent) \_\_\_\_\_ on my behalf, to complete the water use applicant and mining land use operating plan, to receive correspondence from the Water Board and to provide information, as necessary, to the Water Board. I verify that I have read all information prepared by the agent, prior to the agent submitting the information to the Water Board and that all information, is true and accurate.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**You will need to comply with the Operating conditions contained within the *Placer Mining Land Use Regulations*. These Regulations are included in the Application package.**

**Please read them carefully, particularly Schedule I, section 5, before filling out the application.**

**Please Note**

A Mining Land Use Approval can only be issued for 1 to 5 years for a fee of \$250.00 or 5 to 10 years for \$500.00, it can not exceed either the 5 year or 10 year term.



**EXISTING DEVELOPMENT IN THE AREA - Within 1 km of the proposed project site**

- 3. Evidence of Mineral Exploration Work: Active \_\_\_ Non-active/abandoned \_\_\_  
Placer \_\_\_ Hard Rock \_\_\_
- 4. Mine Developments and Production: Active \_\_\_ Non-active/abandoned \_\_\_  
Placer \_\_\_ Hard Rock \_\_\_
- 5. Existing Roads: Primary (paved) \_\_\_ Secondary (gravel/mud) \_\_\_
- 6. Existing Trails: ATV/snowmobile access \_\_\_ Heavy equipment access \_\_\_
- 7. Air Access: Airstrip (paved) \_\_\_ Airstrip (unpaved) \_\_\_ Helicopter Pad \_\_\_
- 8. Agricultural Activity \_\_\_ Forest Harvesting: active \_\_\_ Non-active/abandoned \_\_\_
- 9. Quarrying: Active \_\_\_ Non-active/abandoned \_\_\_

10. Archaeological Sites:

\_\_\_\_\_

(Give claim numbers and show location on claims map.)

11. Burial Grounds: \_\_\_\_\_

(Give claim numbers and show location on claims map.)

12. Permanent Structures: \_\_\_\_\_

(Give claim numbers and show location on claims map.)

13. Resource Harvesting: Trap Line \_\_\_ Fishing/hunting lodge/camp \_\_\_

14. Oil and Gas Exploration/Extraction: \_\_\_

15. Recreational Use: Campground \_\_\_ Hiking trails \_\_\_  
Other recreation use

(specify):

\_\_\_\_\_

16. Power/Communications/Hydroelectric Development: \_\_\_\_\_

(Give claim numbers and show location on claims map.)

17. Transmission Lines:

\_\_\_\_\_

(Give claim numbers and show location on claims map.)

18. Communications Towers: \_\_\_\_\_

(Give claim numbers and show location on claims map.)

**ACCESS AND TRANSPORTATION METHODS**

*All vehicle access within a mine cut or work area that will be totally reclaimed prior to the end of the operation are NOT considered to be new roads or trails in the application. Access routes off your claim (grant) block may require a "Land Use Permit". Contact your inspector for information.*

**Access to Work Areas**

19. Will existing roads be upgraded, (this does not include routine maintenance)? Yes ( ) No ( )

Describe upgrading work that will be done and when:

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20. Will new roads be developed? Yes ( ) No ( )

21. Describe work that will be done to develop the new access road:

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22. Will new trails be developed? Yes ( ) No ( )

Other Access: \_\_\_\_\_ Winter road (packed snow fill)

23. New Helicopter Pad: Area \_\_\_\_\_ m<sup>2</sup> Existing Airstrip: Length \_\_\_\_\_ m Width: \_\_\_\_\_ m

24. Develop new airstrip? Yes ( ) No ( ) If yes, Length: \_\_\_\_\_ km Width: \_\_\_\_\_ m

25. If yes, where will the airstrip be located? (List grant numbers.)

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26. Is there any critical wildlife habitat within 1 km of the proposed airstrip, (i.e. birthing grounds located near the airstrip)? If yes, please explain what precautions will be taken not to disturb the wildlife:

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27. How will erosion of access roads and trails be avoided? (Check those applicable.)

Road grades minimized \_\_\_\_\_

Routes are on flat ground \_\_\_\_\_

Routes are high/dry \_\_\_\_\_

Streambed avoided where possible \_\_\_\_\_

Deep valleys/depressions avoided \_\_\_\_\_

Sand hills are avoided \_\_\_\_\_

Flood plains are avoided where possible \_\_\_\_\_

Coarse grained deposits used for access \_\_\_\_\_

Tension cracks/ice wedges are avoided \_\_\_\_\_

Ponding areas are avoided \_\_\_\_\_

Seeps, marches and springs are avoided \_\_\_\_\_

Ground vegetation preserved where possible \_\_\_\_\_

Trees felled/brush pushed across access route \_\_\_\_\_

Cuts and fills on slopes stabilized \_\_\_\_\_

Brush spread on downhill side of route to act as sediment trap \_\_\_\_\_

Terracing, benching, rounding of slopes \_\_\_\_\_

Areas on south facing slopes used to avoid permafrost areas \_\_\_\_\_

28. Is there isolated permafrost in the area? Yes ( ) No ( )

If yes, can routes be located on south-facing slopes to avoid permafrost zones? Yes ( ) No ( )

**\*\*\*Questions 29 through 32 are for any exploration activity outside of the active mining area(s).\*\*\*  
Did you include the location of these activities on the claims map(s)?**

### Surveying

*Lines must be cut by hand or with hand-held tools. Cut brush must not be piled so that it blocks movement of wildlife or people. Leaning trees created by the cutting of lines must be felled.*

29. Will cut lines be made for surveying purposes? Yes ( ) No ( )

### Site Preparation

*In making a corridor the vegetative mat must not be removed. All risk of fire hazard must be avoided. Removed brush must not be piled so that it blocks movement of wildlife or people. Leaning trees created by removal of trees and brush must be felled.*

**Corridors**

30. Will corridors be established, (for trails, water line, fuel line or power line)? Yes ( ) No ( )

31. Will you be making trenches and/or test pits? Yes ( ) No ( )

32. How will the trenches/pits be made? Hand held tools \_\_\_\_ Mechanized equipment \_\_\_\_

**Drilling**

33. Will there be any drilling on the grants? Yes ( ) No ( )

34. Will clearings be made for drilling sites? Yes ( ) No ( )

**Timber Use**

*Burning of brush/timber may require a burn permit and may have seasonal restrictions. Harvest of timber for purposes other than miner-like purposes requires a timber permit. Consult Government of Yukon, Forestry for information. On Commissioner Land, a land use authorization may be required to harvest timber. Consult Government of Yukon, Lands Branch.*

35. Will timber be cut? Yes ( ) No ( ) If yes, indicate what will happen to cut logs:

Stockpiled \_\_\_\_\_ Spread over access routes \_\_\_\_\_ Burned \_\_\_\_\_  
 Used for mining activities/structures \_\_\_\_\_ Limbed/bucked and dispersed \_\_\_\_\_

**Overburden Piles**

36. Estimates of Overburden Removal, (include additional years if applicable):

	Mechanical	Hydraulic Stripping with settling	
Year 1:	_____	_____	m <sup>3</sup>
Year 2:	_____	_____	m <sup>3</sup>
Year 3:	_____	_____	m <sup>3</sup>
Year 4:	_____	_____	m <sup>3</sup>
Year 5:	_____	_____	m <sup>3</sup>
Year 6:	_____	_____	m <sup>3</sup>
Year 7:	_____	_____	m <sup>3</sup>
Year 8:	_____	_____	m <sup>3</sup>
Year 9:	_____	_____	m <sup>3</sup>
Year 10:	_____	_____	m <sup>3</sup>

**Stockpiling of Overburden**

37. Estimated depth of black muck:  
\_\_\_\_\_metres

38. Is black muck depth generally consistent? \_\_\_\_\_

39. Describe the method for disposition of overburden, including location, (if overburden will be stockpiled) and methods that will be used to prevent erosion:

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40. What is the approximate minimum distance between the stockpiled overburden and the watercourse?  
\_\_\_\_\_ metres

41. What is the estimated height of overburden piles prior to reclamation?  
\_\_\_\_\_ metres

**Explosives**

*Explosives must be set off in a way that minimizes their impact on wildlife and public and that will not cause forest fires, unplanned landslides, artificial damming or other obstructions of streams.*

42. Will explosives be used? Yes ( ) No ( )

If yes, indicate type: \_\_\_\_\_

**WASTE MANAGEMENT**

*Debris, equipment, fuel barrels, scrap metal and other waste at the work site must be stored safely, so as not to attract wildlife, and disposed of, by removal or incineration, as often as is practicable through the mining season and completely at the end of the operation.*

43. Describe disposal methods for non-hazardous waste and where it will be disposed of, (scrap metal, parts, barrels, etc.):

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44. Will waste materials be disposed of within 30 metres of water bodies or courses? Yes ( ) No ( )

45. Describe handling, storage and disposal methods for hazardous waste, (used batteries, fuel filters, fuel pumps etc.):

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*Hazardous material must be labeled and stored in accordance with Workplace Hazardous Materials Information System (WHMIS). Consult Government of Yukon Occupational Health and Safety Branch and Special Waste Handling Regulation for more information.*

46. Will chemicals be used to process mining concentrates? Yes ( ) No ( )

47. If yes, name all chemicals and describe methods for storage, retrieval and disposal:

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## **CAMP FACILITIES AND MAINTENANCE**

### **Structures/Facilities**

48. Use of existing facilities (specify): \_\_\_\_\_

Frame/log structure \_\_\_\_\_ Trailer(s) \_\_\_\_\_ Tent(s) \_\_\_\_\_ Camp facilities not required \_\_\_\_\_

49. Will camps or facilities be located within 30 metres of water bodies? Yes ( ) No ( )

## **FUEL STORAGE AND HANDLING**

Mark location(s) of fuel storage sites on claim sheet(s).

*All mining land use operations require a spill emergency plan to be in place and posted on site.*

50. Will fuel be stored on claims? Yes ( ) No ( )

51. Will fuel storage on claims be greater than 4,000 litres at any given time? Yes ( ) No ( )

If yes, are the tanks greater than 4,000 litres registered? Yes ( ) No ( )

52. What method of secondary containment will be used?

Area around the tanks will be: Bermed \_\_\_\_ Area will be lined with impermeable material \_\_\_\_

Other: \_\_\_\_\_

**Transport of Fuel**

53. Describe method(s) of transport of fuel and other petroleum products and containers to be used on claims:

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**Fuel Storage**

54. Type of Fuel	Fuel storage tank (Type, capacity )	Quantity (litres)	Distance from nearest stream(m)	Name of nearest stream
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

55. Describe fuel storage facilities, (where and how is the fuel stored - include a sketch if this will be helpful):

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56. Where and how will refueling take place?

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**Waste Petroleum Products**

57. Describe procedures and location for storage, removal and disposal of waste petroleum products, (oil, lubricants, contaminated fuel and other special industrial wastes). If waste petroleum products will be burned, they must be burned in a CSA approved burning device:

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## OPERATIONAL PRACTICES

### Overburden and Tailings

58. How will slope stability be maintained where overburden and tailings piles are created?

2 horizontal to 1 vertical ratio for piles will be maintained \_\_\_\_\_

Piles will be re-contoured and smoothed over \_\_\_\_\_

Vegetative mat/organic material/soil with seed stock will be conserved and spread over piles for re-vegetation \_\_\_\_\_

Other techniques (describe): \_\_\_\_\_

\_\_\_\_\_

59. Are there areas where a 2 horizontal to 1 vertical slope cannot be achieved? Yes ( ) No ( )

If yes, describe these areas and explain alternative measures to achieve stability:

\_\_\_\_\_

\_\_\_\_\_

### Mining Cuts/Trenches

60. What measures will be taken to ensure cuts are stabilized, erosion is controlled and re-vegetation can occur?

Vegetative mat will be separated from overburden and bedrock \_\_\_\_\_

Conserved vegetative mat and overburden will be backfilled \_\_\_\_\_

Backfilled areas will be seeded and fertilized \_\_\_\_\_ Benches will be constructed \_\_\_\_\_

Other techniques (explain): \_\_\_\_\_

\_\_\_\_\_

### Seasonal Camp Closure

61. Describe work that will be done at the end of each year to ensure camp facilities are left in a condition that will not attract wildlife:

Campsite will be left clean \_\_\_\_\_ Debris will be disposed of by incineration \_\_\_\_\_

Debris will be disposed of by removal \_\_\_\_\_

Fuel/petroleum products stored to prevent spillage \_\_\_\_\_

Other: \_\_\_\_\_

\_\_\_\_\_

**FINAL SITE RECLAMATION**

62. What measures that will be taken for final reclamation of operation? Attach additional pages, or sketches, if this would be helpful.

Remove all structures \_\_\_\_      Backfill mining cuts \_\_\_\_      Remove all equipment \_\_\_\_  
Remove all storage tanks \_\_\_\_      Re-contour overburden piles \_\_\_\_      Re-contour tailings piles \_\_\_\_  
Remove all waste \_\_\_\_      Spread black muck/ vegetative mat over tailings piles \_\_\_\_  
If materials are not to be spread over tailings piles, explain: \_\_\_\_\_

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63. What terrestrial reclamation measures will be used such as re-vegetation, re-contouring mined out areas, etc.? Describe where and how:

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64. What will be done with fuel, tanks, storage area, other industrial supplies etc.?

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65. What work will be done to ensure slope stability, (for stockpiled overburden, tailings, fines, etc.)?

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66. Are there areas where a 2 horizontal to 1 vertical slope cannot be achieved for re-located materials?

Yes ( ) No ( ) If yes, describe these areas and explain alternative measures to ensure stability:

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**Access Routes and Trails**

67. Will access routes be reclaimed? Yes ( ) No ( ) If yes, explain how:

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68. What access structures will be removed? Bridges \_\_\_ Culverts \_\_\_ Roads \_\_\_ Trails \_\_\_

69. What access structures will remain in place? Bridges \_\_\_ Culverts \_\_\_ Roads \_\_\_ Trails \_\_\_

If access structures are to be left in place, explain why: \_\_\_\_\_

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**Removal of Camp Structures**

*At end of operation, structures must be removed and the site restored to a level of use comparable to the previous level of use.*

70. Provide details as to how and when camp site structures will be removed:

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71. If structures are not to be removed, explain why:

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72. What will be done with other waste materials, (i.e. metal, machinery, sewage disposal facilities, household items)?

Be Specific: \_\_\_\_\_

