

Best Management Practices for Water Act Applications for Waterline and Closed Loop Geothermal Installations in Lakes

For applicants that follow the direction below and commit to following the best management practices detailed herein, Habitat Management staff do not wish to see referrals for waterline or closed loop geothermal installations. To avoid a referral, the proponent must submit the signed statement of intent on page 2 of this Best Management Practices document together with their Approval/Notification application, and sign the statement of intent on the application that they understand their obligations under both provincial and federal legislation.

Notification applications for waterline installations and Approval applications for geothermal installations can be downloaded from:

http://www.env.gov.bc.ca/wsd/water_rights/licence_application/section9/index.html

Applications can be submitted to the nearest Front Counter BC location. Applications must be complete and applicants must understand their obligations under Part 7 of the Water Regulation http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/12_204_88 and must be familiar with Cariboo Region specific terms and Conditions and Timing Windows http://www.env.gov.bc.ca/wsd/regions/car/wateract/terms_conditions.html

Applicants should also visit the Federal Fisheries and Oceans website at <http://www.pac.dfo-mpo.gc.ca/habitat/index-eng.htm> to determine if a DFO authorization is required.

Best Management Practices for Water Line Installations in Lakes:

1. In order to maintain water quality and to ensure sediment does not affect possible spawning fish populations the in-lake work site must be isolated from the remainder of the lake. The isolated work area must ensure that sediment is contained within the work site. The isolated area must remain in place until sediments within the work site have settled. If conditions prevent the containment of sediments within the work site then the work must cease.
2. During water line excavation only the bucket of the machine is permitted to enter the lake during the installation of pipe and the machine must work from above the wetted perimeter. Any equipment needed on site for construction work must be used in a manner that will prevent deleterious substances, such as oil, grease and other chemicals from entering the lake. This may necessitate cleaning such products from equipment prior to use.
3. Any disturbance to the lake bed and banks/shoreline must be restored using clean materials of sufficient size to prevent erosion. Adequate bank/shoreline stabilization and reseeded and reclamation of upland sites above the high water mark must be completed.
4. The work window for water line installation in lakes with kokanee populations present is during ice free periods until August 15 of any year (see attached list). For all other lakes without kokanee populations present the work window is during ice free periods with generally the least risk period, to undertake the work, occurring during low water conditions.

5. MFLNRO must receive a 72 hour notice of commencement prior to commencing the proposed works by phoning Resource Management staff at the nearest MFLNRO office in Williams Lake (250-398-4530) or Quesnel (250-991-7252).

Best Management Practices for Closed Loop Geothermal Installations in Lakes:

1. In order to maintain water quality and to ensure sediment does not affect possible spawning fish populations any in-lake excavations must be isolated from the remainder of the lake. The isolated work area must completely retain any sediments generated by the work and prevent them from escaping to the open lake. The isolation materials must remain in place until sediments within the work area have settled. If conditions prevent the containment of sediments within the work site then the work must cease.
2. During loop field excavation only the bucket of the machine is permitted to enter the lake during the installation of the loop field and the machine must work from above the wetted perimeter. Any equipment needed on site for construction work must be used in a manner that will prevent deleterious substances, such as oil, grease and other chemicals from entering the lake. This may necessitate cleaning such products from equipment prior to use.
3. Any disturbance to the lake bed and banks/shoreline must be restored using clean materials of sufficient size to prevent erosion. Adequate bank/shoreline stabilization and reseeded and reclamation of upland sites above the high water mark must be completed.
4. To prevent possible harmful alterations of fish habitat the loop field must be elevated a minimum of 60 cm above the lake bed and securely anchored to remain in place.
5. The work window for geothermal line installation in lakes with kokanee populations present is during ice free periods until August 15 of any year (see attached list). For all other lakes without kokanee populations present the work window is during ice free periods with generally the least risk period, to undertake the work, occurring during low water conditions
6. MFLNRO must receive a notice of commencement 72 hours prior to commencing the proposed works by phoning Resource Management staff at the nearest MFLNRO office in Williams Lake (250-398-4530) or Quesnel (250-991-7252)

Statement of Intent:

I, _____, have read this Best Management Practices document (version June 2012) and understand that I am obligated to follow the direction detailed herein when carrying out the works described in my 'Approval Application or Notification for Changes In and About a Stream Under Section 9 of the Water Act and Part 7 of the Water Act Regulation', which I have signed and dated _____.

(Signature)

(Date)

Cariboo Region - Lakes with Known Kokanee Populations

Lake	WBID	Stocked (Y/N)
ANTOINE	02117QUES	N
BATNUNI	00446EUCH	N
BEAVER	01965QUES	N
BEN	01571QUES	N
BIG	02219QUES	Y
BIG	02388SAJR	Y
BIG	00851TASR	N
BLUE	00597TWAC	N
BOAT	00599EUCH	N
BOBBS	00001BRID	Y
BOOTJACK	01695QUES	N
BOSCAR	01005HORS	N
BOSK	01105HORS	N
BOWRON	00947BOWR	N
BRIDGE	00903BRID	Y
BUCKINGHAM	01693QUES	N
CANIM	01447MAHD	N
CARIBOO	00560CARR	N
CHAMBERS	01710QUES	N
CHIMNEY	01071MFRA	Y
CHOELQUOIT	00503CHIR	N
CHUTANLI	00539EUCH	N
COMSTOCK	00424EUCH	N
DEKA	00154BRID	Y
ELKIN	00603TASR	N
ELLERSLIE	00308NASC	N
EMERALD	01774MFRA	N
EUCHINIKO	00150EUCL	N
EUCHINIKO	00223EUCL	N
EUCHINIKO	00298EUCL	N
FOUR	00383NECL	N
GOTCHEN	01420HORS	N
HORSE	00378BRID	Y
HORSEFLY	00018HORS	N
IKT	01006NASC	N
ISAAC	00006CARR	N
KIBBEE	00937BOWR	N
KLUNCHATISTLI	00333EUCH	N
KLUSKOIL	00387BLAR	N
KLUSKUS	00430EUCL	N

KONNI	00881CHIR	N
LAC LA HACHE	01415SAJR	N
LINK	00593NASC	N
LITTLE		
HORSEFLY	00331HORS	N
MCKINLEY	00660HORS	N
MCLEESE	00295TWAC	Y
MCNEIL	01702HORS	N
MINER	00938KLIN	N
MOKST	00995NASC	N
MOOTO	00132NASC	N
PIPER	00907OWIK	N
PUNTZI	01908UCHR	N
QUESNEL	00431QUES	N
RAINBOW	00194NAZR	N
ROBERT	02200QUES	N
ROSE	01206TWAC	Y
RUTH	01610MAHD	Y
SKOI	00093CARR	N
SPECTACLE	01187BOWR	N
STUMP	00290NAZR	N
SULPHUROUS	00252BRID	Y
SWAN	01061BOWR	N
TATLA	01496LCHR	N
TEN MILE	00001QUES	Y
TIMOTHY	01451SAJR	Y
TITETOWN	00824EUCH	N
TUZCHA	01323TASR	N
TYEE	02197QUES	N
UNNA	00174CARR	N
WESTERN	00201NASC	N