

Montana Department of Natural Resources and Conservation
Water Resources Division
Water Rights Bureau

ENVIRONMENTAL ASSESSMENT
For Routine Actions with Limited Environmental Impact

Part I. Proposed Action Description

1. *Applicant/Contact name and address:* Whitefish Lake Golf Club
PO Box 666
Whitefish, MT 59937
2. *Type of action:* Permit to Appropriate Water 76LJ 30051177
3. *Water source name:* Whitefish Lake
4. *Location affected by project:* NESESW of Section 26, Township 31 north, Range 22 west, Flathead County
5. *Narrative summary of the proposed project, purpose, action to be taken, and benefits:*

The Applicant proposes to divert water from Whitefish Lake, by means of two wet wells containing three pumps, from April 1 to October 31 at 1,400 GPM up to 226 AF. The proposed appropriation includes the use of 215.3 AF for irrigating a 112.5 acre golf course, 9.9 AF for storage of irrigation water in two reservoirs, and 0.84 AF for a recreational water feature on the golf course.

The proposed use is expected to be largely consumptive. The Applicant states the irrigation system is 90% efficient, resulting in a consumptive volume of 193.8 AF (215.3 AF x 0.9). The irrigation and recreation ponds have a total surface area of 1.15 acres resulting in a 3.45 AF loss to evaporation at a rate of 3 feet per acre. Of the total 226 AF request, 197.25 AF will not return to the system due to evapotranspiration and pond evaporation.

6. *Agencies consulted during preparation of the Environmental Assessment:
(include agencies with overlapping jurisdiction)*

Montana Natural Resource Program Species of Concern
 Montana DEQ..... MT Clean Water Act Information Center
 US Fish and Wildlife Service Wetlands Mapper
 Natural Resource Conservation Service Web Soil Survey

Part II. Environmental Review

1. Environmental Impact Checklist:

PHYSICAL ENVIRONMENT

WATER QUANTITY, QUALITY AND DISTRIBUTION

Water quantity - Assess whether the source of supply is identified as a chronically or periodically dewatered stream by DFWP. Assess whether the proposed use will worsen the already dewatered condition.

Determination: N/A.

Water quality - Assess whether the stream is listed as water quality impaired or threatened by DEQ, and whether the proposed project will affect water quality.

Whitefish Lake is listed as a threatened water body for the uses of aquatic life and a cold water fishery. The use of 1,400 gpm up to 226 AF per year is not likely to increase the impairment of this source because the probable causes of impairment are mercury, polychlorinated biphenyls, and sedimentation/siltation.

Determination: No expected impact.

Groundwater - Assess if the proposed project impacts ground water quality or supply. If this is a groundwater appropriation, assess if it could impact adjacent surface water flows.

Determination: This appropriation is for surface water and therefore does not apply.

DIVERSION WORKS - Assess whether the means of diversion, construction and operation of the appropriation works of the proposed project will impact any of the following: channel impacts, flow modifications, barriers, riparian areas, dams, well construction.

Water is diverted from Whitefish Lake by two buried eight inch pipes that provide water to two wet wells. The elevation of water in the wet wells is controlled by the elevation of the lake, and therefore is always at equilibrium with the lake. A 60 hp Flowtronex 12EML and a 25 hp Flowtronex 10L22 pump divert water from one wet well at a combined flow rate of 813 gpm. Another 60 hp Flowtronex 12EML diverts water from the other wet well at a rate of 587 gpm. These two diversions have a total combined flow rate of 1,400 gpm.

Determination: Diversion works are already in place because they also service 76LJ 17981-00.

UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES

Endangered and threatened species - Assess whether the proposed project will impact any threatened or endangered fish, wildlife, plants or aquatic species or any "species of special concern," or create a barrier to the migration or movement of fish or wildlife. For groundwater,

assess whether the proposed project, including impacts on adjacent surface flows, would impact any threatened or endangered species or “species of special concern.”

The Montana Natural Heritage Program website was referenced to determine if there are any threatened or endangered fish, wildlife, plants or aquatic species or any “species of special concern” in vicinity of Township 31N and Range 22W, that could be impacted by the proposed project. The US Fish and Wildlife Service identified the threatened Canada Lynx (*Lynx canadensis*), Grizzly Bear (*Ursus arctos*), and Bull Trout (*Salvelinus confluentus*). In addition the State of Montana, US Forest Service, and Bureau of Land Management identified the following species of special concern: Gray Wolf (*Canis lupus*); Wolverine (*Gulo gulo*); Fisher (*Martes pennanti*); Golden Eagle (*Aquila Chrysaetos*); Great Blue Heron (*Ardea herodias*); Pileated Woodpecker (*Dryocopus pileatus*); Common Loon (*Gavia immer*); Bald Eagle (*Haliaeetus leucocephalus*); Northern Alligator Lizard (*Elgaria coerulea*); Westslope Cutthroat Trout (*Onchorhynchus clarkia lewisi*); Sheathead Slug (*Zacoleus idahoensis*); Creeping Sedge (*Carex chordorrhiza*); Crested Shieldfern (*Dryopteris cristata*); Giant Helleborine (*Epipactis gigantean*); Slender Cottongrass (*Eriophorum gracile*); and Gray Lungwort Lichen (*Lobaria hallii*).

Determination: This proposed project will not change land use characteristics and therefore should not impact the above listed species with the exception of slight impact to the Bull Trout, and Westslope Cutthroat as a result of a reduced flow rate and volume of 1,400 gpm and 226 AF from the Whitefish River system. In conclusion, this proposed project it is not expected to adversely impact any of these species.

Wetlands - *Consult and assess whether the apparent wetland is a functional wetland (according to COE definitions), and whether the wetland resource would be impacted.*

Determination: The proposed point of diversion and place of use are not within the boundaries of wetlands mapped by the national wetlands inventory program.

Ponds - *For ponds, consult and assess whether existing wildlife, waterfowl, or fisheries resources would be impacted.*

The ponds associated with this application are already in place. They are used for the storage of irrigation water and as recreational water features. Fish stocking is not part of this application.

Determination: No impact is expected

GEOLOGY/SOIL QUALITY, STABILITY AND MOISTURE - *Assess whether there will be degradation of soil quality, alteration of soil stability, or moisture content. Assess whether the soils are heavy in salts that could cause saline seep.*

Determination: No degradation of soils is expected.

VEGETATION COVER, QUANTITY AND QUALITY/NOXIOUS WEEDS - *Assess impacts to existing vegetative cover. Assess whether the proposed project would result in the establishment or spread of noxious weeds.*

Determination: There will be no change in land-use characteristics associated with this application so there will be no significant impact.

AIR QUALITY - *Assess whether there will be a deterioration of air quality or adverse effects on vegetation due to increased air pollutants.*

Determination: No impact.

HISTORICAL AND ARCHEOLOGICAL SITES - *Assess whether there will be degradation of unique archeological or historical sites in the vicinity of the proposed project.*

Determination: Not applicable; project not located on State or Federal Lands.

DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AND ENERGY - *Assess any other impacts on environmental resources of land, water and energy not already addressed.*

Determination: None

HUMAN ENVIRONMENT

LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS - *Assess whether the proposed project is inconsistent with any locally adopted environmental plans and goals.*

Determination: The project is consistent with planned land use.

ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES - *Assess whether the proposed project will impact access to or the quality of recreational and wilderness activities.*

Determination: There should be no significant impacts on recreational or wilderness activities from this proposed use.

HUMAN HEALTH - *Assess whether the proposed project impacts on human health.*

Determination: No impact.

PRIVATE PROPERTY - *Assess whether there are any government regulatory impacts on private property rights.*

Yes ___ No X *If yes, analyze any alternatives considered that could reduce, minimize, or eliminate the regulation of private property rights.*

Determination: No impact.

OTHER HUMAN ENVIRONMENTAL ISSUES - For routine actions of limited environmental impact, the following may be addressed in a checklist fashion.

Impacts on:

- (a) Cultural uniqueness and diversity? No
- (b) Local and state tax base and tax revenues? No
- (c) Existing land uses? No
- (d) Quantity and distribution of employment? No
- (e) Distribution and density of population and housing? No
- (f) Demands for government services? No
- (g) Industrial and commercial activity? No
- (h) Utilities? No
- (i) Transportation? No
- (j) Safety? No
- (k) Other appropriate social and economic circumstances? No

2. Secondary and cumulative impacts on the physical environment and human population:

Secondary Impacts: None

Cumulative Impacts: None

3. Describe any mitigation/stipulation measures: None

4. Description and analysis of reasonable alternatives to the proposed action, including the no action alternative, if an alternative is reasonably available and prudent to consider:

The “no action” alternative to this proposed project will result in the landowner not having access to water for domestic purposes.

PART III. Conclusion

- 1. Preferred Alternative:** As proposed
- 2. Comments and Responses:** None

3. Finding:

Yes ___ No **X** Based on the significance criteria evaluated in this EA, is an EIS required?

If an EIS is not required, explain why the EA is the appropriate level of analysis for this proposed action: No significant impacts have been identified; therefore, no EIS is necessary.

Name of person(s) responsible for preparation of EA:

Name: Tim Eichner

Title: Hydrologist/Water Resources Specialist

Date: March 9, 2012