

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:* Logan Ventures, Inc. 390 Columbia Falls Stage Rd, Kalispell MT 59901
2. *Type of action:* Application for Beneficial Water Use Permit 76LJ 30052004
3. *Water source name:* Groundwater Wells
4. *Location affected by project:* the E $\frac{1}{2}$ SE $\frac{1}{4}$ and S $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 1, Township 28N, Range 21W, Flathead County, and is approximately 4 miles east of Kalispell.
5. *Narrative summary of the proposed project, purpose, action to be taken, and benefits:*
The DNRC shall issue a water use permit if an applicant proves the criteria in 85-2-311 MCA are met.

The Applicant proposes to divert water from two previously permitted wells both 280 feet deep, from January 1 through December 31 at an additional 30 GPM up to 43.62 AF, from points in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 1, Township 28N, Range 21W, for multiple domestic use from January 1 through December 31 and lawn and garden irrigation on 16.42 acres from April 21 through October 8. The place of use will be in East Valley Estates Subdivision No. 1 (17 lots) and No. 2 (28 lots) and is generally located in the E $\frac{1}{2}$ SE $\frac{1}{4}$ and S $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 1, Township 28N, Range 21W, Flathead County, and is approximately 4 miles east of Kalispell.

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

Natural Resources and Conservation Service soil maps
Montana Department of Environmental Quality
United States Fish and Wildlife Wetland Mapper
Montana Natural Heritage Program

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 – groundwater wells

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.

Determination: N/A

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.

The proposed means of diversion are two wells constructed by Water Well Services (MT license #WWC-635) in the deep alluvial aquifer to a depth of 280 feet, screened from 266 to 268 feet bgs and static water levels at 3 btoc and -3.5 btoc. Wells were completed in May of 2005.

Pumping of this well will likely reduce water in the surface sources of the Flathead River and Flathead Lake sometime in the future.

Determination: Through the Provisional Permit process, it has been determined that adjacent surface source senior appropriators of these surface sources will not be adversely affected.

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.

Determination: The proposed means of diversion are two wells constructed by Water Well Services (MT license #WWC-635) in the deep alluvial aquifer to a depth of 280 feet, both screened from 266 to 280 feet below ground surface (bgs) with static level of the east well at -3.5 feet btoc and the west well at 3 feet btoc. The production wells are approximately 150 feet apart with both being completed in May 2005. This public water supply system (PWSID #MT0004514) serving East Valley Estates Subdivision No. 1 and 2 was designed by TD&H Engineering and regulated by the Department of Environmental Quality (DEQ). By design, the two wells will be pumped alternately. A Goulds Model 150H (6-stage), 15 hp submersible pump occupies both wells. These pumps are rated at a capacity of 155 GPM at 312 total dynamic head (tdh). Components of the system include pressure gages, gate valves, 2 4-inch Master Flow flowmeters and 12 X-Troll pressure tanks set to operate between 50 and 70 psi with a maximum flow of 125 GPM. Water is distributed from the pump house in 4-inch main lines narrowing to 1-inch lot delivery piping. Pump curve and system specifications were included in the application.

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's website was used to determine if there are any threatened or endangered fish, wildlife, plants or aquatic species or any "species of special concern", that could be impacted by the proposed project. The following animals were identified on that list located regionally: Wolverine, Fisher, Great Blue Heron, Veery, Evening Grosbeak, Northern Hawk Owl, Westslope Cutthroat Trout, Pygmy Whitefish, Bull Trout, Lake Trout and Pygmy Water-lily.

Determination: No immediate impact.

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: This property is not located within a designated wetland boundary.

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

Determination: No pond; no impact.

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.*

The majority of soils in this area is Kalispell loam (Kr) that occurs on 3 to 7 percent slopes of well-drained soils.

Determination: No impact to soil quality or alteration of soil stability 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: No impact. Land will now have a good maintenance plan.

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

Determination: No impacts are anticipated.

HISTORICAL AND ARCHEOLOGICAL SITES - *Assess whether there will be degradation of unique archeological or historical sites in the vicinity of the proposed project if it is on State or Federal Lands.*

Determination: N/A – 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: No other impacts were identified in this EA.

HUMAN ENVIRONMENT

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

Determination: This subdivision appears to be in compliance with regulations of the Flathead County Planning Office.

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: No impact expected.

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

Determination: No impact expected.

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

*Yes*___ *No***XXX** *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? None identified.

(b) Local and state tax base and tax revenues? Increase in tax revenues.

- (c) Existing land uses? None
- (d) Quantity and distribution of employment? None
- (e) Distribution and density of population and housing? Standard growth impacts
- (f) Demands for government services? Developmental/growth impacts
- (g) Industrial and commercial activity? None identified
- (h) Utilities? Greater demand for electricity and natural gas
- (i) Transportation? Not significant
- (j) Safety? Not significant
- (k) Other appropriate social and economic circumstances? None identified

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

Secondary Impacts None expected

Cumulative Impacts None expected

3. Describe any mitigation/stipulation measures: None identified

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:

PART III. Conclusion

1. Preferred Alternative

2. Comments and Responses

3. Finding:

Yes___ NoXX 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:

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

Name: Kathy Olsen

Title: Water Resource Specialist

Date: August 1, 2012