Part I. Proposed Action Description

1. Applicants Contact name and address: John, Mark and Julie Patterson
   123 Patterson Ranch Rd.
   Columbus, MT  59019

2. Type of action: Application to Change an Existing Irrigation Water Right

3. Water source name: Red Lodge Creek

4. Location affected by project: N2 Sec. 32 and W2 Sec. 33, T4S, R21E, Carbon County.

5. Narrative summary of the proposed project, purpose, action to be taken, and benefits: The Applicant proposes to change the point of diversion by moving it downstream approximately 3.04 miles from Cottonwood Creek to Red Lodge Creek. The DNRC shall issue a change authorization if an applicant proves the criteria in 85-2-402 MCA are met.

6. Agencies consulted during preparation of the Environmental Assessment:
   (include agencies with overlapping jurisdiction)
   - Montana Natural Heritage Program
   - Montana Department of Fish Wildlife & Parks (MFWP)
   - Montana Department of Environmental Quality (MDEQ)
   - Endangered-Threatened Species
   - Dewatered Stream Information
   - TMDL Information

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: no impact
Red Lodge Creek is not on the DFWP list of chronically or periodically dewatered streams. The proposed change will not increase the flow rate or volume of water removed from the system it will change the location the water is diverted by approximately 3.04 miles.
**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.

*Determinaton:* no impact

Red Lodge Creek from Cooney Reservoir to the mouth at Rock Creek has been assigned use class B-1 by DEQ which are waters classified as suitable for drinking, culinary, and food processing purposes after conventional treatment; bathing, swimming and recreation; growth and marginal propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply. This proposed change should not cause any alteration in the water quality of Red Lodge Creek.

**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.

*Determinaton:* no impact

This application does not include a groundwater component.

**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.

*Determinaton:* no impact

The proposed diversion is a pumps which is already in place and operating. The historical diversion has deteriorated beyond use and will be abandoned. There will be no negative impact to channel, flow modifications, barriers, riparian areas, dams or well construction.

**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.”

*Determinaton:* No Impact

The Natural Heritage Program identified the following species of concern and potential species of concern within the project area: Grizzly Bear, Golden Eagle, Hoary Bat, Long-Billed Curlew and Bald Eagle. The proposed changes are within an area that is already actively farmed. There should be no affect to the species listed above.

**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:** no impact

There are no wetlands within the proposed project area shown on the National Wetlands Inventory online at [https://www.fws.gov/wetlands/Data/Mapper.html](https://www.fws.gov/wetlands/Data/Mapper.html). There should be no effect to wetlands due to the proposed change.

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

**Determination:** no impact

This project does not involve any ponds.

**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 impact

The proposed point of diversion is approximately 3.04 miles downstream of the existing diversion and will be a pump on the bank of the river. The proposed place of use is actively farmed. This change will not degrade soil quality, alter stability or moisture content.

**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 if it is on State or Federal Lands. If it is not on State or Federal Lands simply state NA-project not located on State or Federal Lands.

**Determination:** no impact

NA – 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 impact

There should be no significant impacts on other environmental resources of land, energy or water from this proposed use.

| HUMAN ENVIRONMENT |
**Locally Adopted Environmental Plans and Goals** - Assess whether the proposed project is inconsistent with any locally adopted environmental plans and goals.

**Determination:** no impact

This proposed change is not inconsistent with locally adopted environmental plans and goals for Carbon County.

**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

The project is located in an area that is actively farmed; this project should have no impact on recreational or wilderness activities.

**Human Health** - Assess whether the proposed project impacts on human health.

**Determination:** no impact

There should be no significant impact on human health from this proposed use.

**Private Property** - Assess whether there are any government regulatory impacts on private property rights.

Yes ___ No ___  
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 significant impact.

(b) **Local and state tax base and tax revenues?**  No significant impact.

(c) **Existing land uses?**  No significant impact.

(d) **Quantity and distribution of employment?**  No significant impact.

(e) **Distribution and density of population and housing?**  No significant impact.

(f) **Demands for government services?**  No significant impact.
(g) *Industrial and commercial activity?* No significant impact.

(h) *Utilities?* No significant impact.

(i) *Transportation?* No significant impact.

(j) *Safety?* No significant impact.

(k) *Other appropriate social and economic circumstances?* No significant impact.

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

   Secondary Impacts None identified.

   Cumulative Impacts None identified.

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:* The no action alternative would mean that the applicant could not move their diversion and would likely continue with their historical irrigation practices.

**PART III. Conclusion**

1. **Preferred Alternative** To authorize the change in point of diversion.

2 **Comments and Responses**

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 were identified. No EIS required.

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

   Name: Christine Schweigert
   Title: Hydrologist
   Date: January 3, 2022