

## **APPENDIX Y**

### **Bureau of Land Management Recommended Mitigation Measures**

## **APPENDIX Y: Bureau of Land Management Alaska Recommended Mitigation Measures**

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### **Acronyms**

|      |                                  |
|------|----------------------------------|
| a.m. | ante-meridian (morning)          |
| BLM  | Bureau of Land Management        |
| dBA  | decibels on the A-weighted scale |
| p.m. | post-meridian (afternoon)        |

TABLE Y-1

**Bureau of Land Management Alaska Recommended Mitigation Measures**

| Number | Topic               | Measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Air Quality & Noise | Between May 15 and September 30, restrict activities such as equipment maintenance near the Galbraith Lake campground between the hours of 9:00 p.m. and 8:00 a.m. to ensure that a noise level of 45 dBA (when measured 100 feet from the campsite pad closest to an area of noise generating activity) is not exceeded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2      | Air Quality & Noise | Compressor stations will be constructed using sound-absorbing materials and methods. Contribution to the soundscape measured 1/4 mile from the compressor station will not exceed 55 dBA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3      | Visual Resources    | <p>All permanent structures or facilities shall be painted a camouflaging color in accordance with the Bureau of Land Management's (BLM's) Visual Resource Management standards (BLM 1984; BLM 1986a; and BLM 1986b). The permittee will consult with the Authorized Officer to determine the appropriate color for a given site.</p> <p>Information about color options can be found at <a href="https://www.blm.gov/programs/recreation/recreation-programs/visual-resource-management">https://www.blm.gov/programs/recreation/recreation-programs/visual-resource-management</a>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4      | Fuel Handling       | <p>All fuel containers shall be marked with the responsible party's name, product type, and dates filled or brought on the lease. In bulk storage or staging areas, a single label will be sufficient.</p> <p>Refueling equipment and storing/maintaining equipment within 100 feet of the active floodplain of any waterbody is prohibited, except for watercraft and aircraft. Fuel storage stations shall be located outside the 100-year floodplain of waterbodies, unless otherwise approved by the Authorized Officer. The BLM Authorized Officer may allow storage and operations at areas closer than the stated distances if properly designed to account for local hydrologic conditions.</p> <p>During equipment storage or maintenance, the lessee will ensure that the site is protected from leaking or dripping fuel and hazardous substances by the placement of drip pans or other surface liners designed to catch and hold fluids under the equipment, or by creating an area for storage or maintenance using an impermeable liner.</p> <p>During fuel or hazardous substance transfer, the lessee will ensure that a secondary containment or a surface liner is placed under all container or vehicle fuel tank inlet and outlet points, hose connections, and hose ends.</p> |
| 5      | Vegetation          | Reclamation of disturbed stream channels will be required to achieve 1:1 floodplain connectivity, streambank native vegetation cover greater than 70 percent, active streambank erosion of less than 10 percent (as defined in BLM Technical Reference 1735-2), percent riffle between 60 and 70 percent, and no observable head cuts or mid-channel bars after 2 years of monitoring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 6      | Vegetation          | Cleared areas on BLM-administered lands for helicopter landing sites will be sized in accordance with the Minimum Touchdown Pad and Safety Circle Dimensions provided in the National Wildfire Coordinating Group's <i>Standards for Helicopter Operations</i> . Clearing for a helibase or for a helispot larger than a safety circle of 110 feet requires written approval from the Authorized Officer (National Wildfire Coordinating Group, 2019).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7      | Reclamation         | Surface soil layers will be segregated and retained for use in reclamation and revegetation. While it is recognized that complete segregation of topsoil may not be technically feasible when trenching during some seasons, the permittee will take measures to save the surface soils (O, A, and B horizons) separate from other excavated materials. Saved surface soils will be used as cover placed back on the excavation and crowned to reduce ponding, encourage physical and thermal stability, and facilitate timely revegetation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8      | Reclamation         | <p>Reclamation of disturbed areas, including work pads, will be designed to achieve the following within 5 years:</p> <ol style="list-style-type: none"> <li>1. Attainment of about 70 percent or more of native plant foliar cover.</li> <li>2. A minimum of two growing seasons, with a self-sustaining upward trend in native plant species foliar cover.</li> <li>3. Absence of non-native invasive plant species above baseline.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 9      | Wildlife            | Aircraft associated with BLM-authorized activities must observe altitude restrictions at key locations as established under the resource management plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 10     | Winter Travel       | Winter overland travel on BLM-administered lands may only occur when snow depth and ground freeze have reached minimums required under the applicable BLM resource management plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |