



# Department of Fish and Game

HABITAT SECTION Southcentral Regional Office

> 333 Raspberry Road Anchorage, Alaska Main: 907.267.2342 Fax: 907.267.2499

## FISH HABITAT PERMIT FH23-II-0033

**ISSUED:** April 27, 2023 **EXPIRES:** Life of Project

Alaska Railroad Corporation Attn: Brian Lindamood P.O. Box 107500 Anchorage, AK 99510

RE: Bridge Replacement Bird Creek (Water Body No. 247-60-10280) Section 9, T 10 N, R 1 W, SM Location: 60.972872 N, 149.467238 W

Dear Brian Lindamood:

Pursuant to the Anadromous Fish Act at AS 16.05.871 (b), the Alaska Department of Fish and Game (ADF&G) Habitat Section has reviewed your proposal to replace the existing railroad bridge over Bird Creek.

#### **Project Description**

The Alaska Railroad Corporation (ARRC) proposes to replace the existing railroad bridge near the tidally influenced mouth of Bird Creek at ARRC Milepost 86.6. Some project components extend below mean high water (MHW), but the work will be conducted in-the-dry during low tidal cycles. No in-water work or stream diversions are proposed.

The existing span will be replaced by a steel girder span. The existing concrete piers will be transformed into abutments by encasing the existing steel piles with controlled low-strength material (CLSM) and installing new, precast concrete back walls. The existing timber approach spans will be removed. The void under the existing timber spans will be filled with CLSM, compacted backfill, and riprap.

Existing riprap and fill material adjacent to the existing piers will be temporarily removed and stockpiled for reuse. Exposed portions of remnant creosote piles that may interfere with proposed

activities will be removed from below MHW (Figure 1). The piles will be cut at ground surface and hauled off site.

Staging areas will be developed above the high tide line (Figure 2). The new span will be assembled adjacent to the existing bridge and supported near the ends by temporary work piers with temporary steel pipe piles driven below MHW on both sides of and under the existing bridge (Figure 3). A total of 20, 24-inch temporary steel pipe piles will be installed to support the temporary piers.

After the new span is assembled, the old spans will be removed, the abutments will be modified, and the new span will be set in place. The temporary work piers and pipe piles will be removed in their entirety. Riprap will be placed adjacent to and around the abutments for scour protection. You estimate that about 275 cubic yards of existing riprap and other material will be excavated from below MHW and about 400 cubic yards of riprap will be subsequently placed below MHW during construction (Figures 3 and 4). The site will be restored to pre-construction conditions with modifications noted above.

#### **Anadromous Fish Act**

Water Body No. 247-60-10280 has been specified as being important for the spawning, rearing, or migration of anadromous fishes pursuant to AS 16.05.871(a). The water body provides habitat for chum, coho, Chinook, and pink salmon.

In accordance with AS 16.05.871(d), your project is approved subject to the project description, the following stipulations, and the permit terms.

- 1. The structure shall be designed, installed, and maintained to accommodate the efficient passage and movement of fish, both upstream and downstream, for the life of the project.
- 2. All bank cuts, slopes, fills, and other exposed earthwork arising from bridge installation or maintenance shall be stabilized to prevent erosion which may occur during and after installation.
- 3. Piles shall be driven using a vibratory hammer to the extent practicable. An impact hammer can be used for proofing.
- 4. Equipment with fuel, oil, or hydraulic fluid leaks shall not be operated below mean high water of Bird Creek.
- 5. The structure shall not be treated with any preservative containing creosote or pentachlorophenol. If preservatives are used, only pressure treated applications shall be employed. Preservatives shall not be painted on, sprayed, or otherwise applied by surface application.

### **Permit Terms**

This letter constitutes a permit issued under the authority of AS 16.05.871 and must be retained on site during project activities. Please be advised that this determination applies only to activities regulated by the Habitat Section; other agencies also may have jurisdiction under their respective authorities. This determination does not relieve you of your responsibility to secure other permits; state, federal, or local. You are still required to comply with all other applicable laws. You are responsible for the actions of contractors, agents, or other persons who perform work to accomplish the approved project. For any activity that significantly deviates from the approved plan, you shall notify the Habitat Section and obtain written approval in the form of a permit amendment before beginning the activity. Any action that increases the project's overall scope or that negates, alters, or minimizes the intent or effectiveness of any provision contained in this permit will be deemed a significant deviation from the approved plan. The final determination as to the significance of any deviation and the need for a permit amendment is the responsibility of the Habitat Section. Therefore, we recommend you consult the Habitat Section immediately before considering any deviation from the approved plan.

You shall give an authorized representative of the state free and unobstructed access to the permit site, at safe and reasonable times, for the purpose of inspecting or monitoring compliance with any provision of this permit. You shall furnish whatever assistance and information the authorized representative reasonably requires for monitoring and inspection purposes.

In addition to the penalties provided by law, this permit may be terminated or revoked for failure to comply with its provisions or failure to comply with applicable statutes and regulations. You shall mitigate any adverse effect upon fish or wildlife, their habitats, or any restriction or interference with public use that the commissioner determines was a direct result of your failure to comply with this permit or any applicable law.

You shall indemnify, save harmless, and defend the department, its agents, and its employees from any and all claims, actions, or liabilities for injuries or damages sustained by any person or property arising directly or indirectly from permitted activities or your performance under this permit. However, this provision has no effect if, and only if, the sole proximate cause of the injury is the department's negligence.

You may appeal this permit decision relating to AS 16.05.871 in accordance with the provisions of AS 44.62.330-630.

Please direct questions about this permit to Habitat Biologist Josh Brekken at (907) 267-2113 or josh.brekken@alaska.gov.

Sincerely, Doug Vincent-Lang Commissioner

Ron Benkont

By Ron Benkert Southcentral Regional Supervisor

Enclosures: Figures 1-3 and Sheet 4

Email cc:

A. Ott, ADF&G B. Blain, ADF&G C. Larson, ADNR DMLW J. Rypkema, ADEC USACE, Regulatory DPS/AWT, Anchorage N. Havelock, ARRC



Figure 1: Creosote-treated piles circled in red.





