

**Bering Sea Fishermen's Association - Genetic Stock  
Identification of Chinook Salmon Harvested**

**FY2024 Request: \$359,678  
Reference No: 65058**

**AP/AL:** Appropriation

**Category:** Development

**Location:** Statewide

**Impact House District:** Statewide (HD 1 - 40)

**Estimated Project Dates:** 07/01/2023 - 06/30/2028

**Project Type:** Energy

**Recipient:** Bering Sea Fishermen's Association

**House District:** Statewide (HD 1 - 40)

**Contact:** Micaela Fowler

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**Brief Summary and Statement of Need:**

SCS1 Add.

Collection of genetic samples in the South Peninsula (Area M) management area with the primary goal to sample and genotype Chinook salmon harvested to identify their stock of origin.

| <b>Funding:</b> | <b>FY2024</b>    | <b>FY2025</b> | <b>FY2026</b> | <b>FY2027</b> | <b>FY2028</b> | <b>FY2029</b> | <b>Total</b>     |
|-----------------|------------------|---------------|---------------|---------------|---------------|---------------|------------------|
| 1004 Gen Fund   | \$359,678        |               |               |               |               |               | \$359,678        |
| <b>Total:</b>   | <b>\$359,678</b> | <b>\$0</b>    | <b>\$0</b>    | <b>\$0</b>    | <b>\$0</b>    | <b>\$0</b>    | <b>\$359,678</b> |

☐ State Match Required   ☐ One-Time Project   ☐ Phased - new   ☐ Phased - underway   ☐ Ongoing  
0% = Minimum State Match % Required   ☐ Amendment   ☐ Mental Health Bill

**Operating & Maintenance Costs:**

|                      | <u><b>Amount</b></u> | <u><b>Staff</b></u> |
|----------------------|----------------------|---------------------|
| Project Development: | 0                    | 0                   |
| Ongoing Operating:   | 0                    | 0                   |
| One-Time Startup:    | 0                    | 0                   |
| <b>Totals:</b>       | <b>0</b>             | <b>0</b>            |

**Prior Funding History / Additional Information:**

**Project Description/Justification:**

The primary goal of this study is to sample and genotype Chinook salmon harvested in Area M to identify their stock of origin.

1. Collect genetic tissue (pelvic fin) from Chinook salmon caught in the Area M fishery over the 2023-2026 fishing seasons from June through August.
2. Select subsamples of genetic tissues in proportion to catch within designated areas and temporal strata.
3. Use genetic mixed stock analysis to estimate stock proportions of Chinook salmon in the South Peninsula strata using existing genetic reporting groups.
4. Report out annually to the legislature the results of the mixed stock analysis of Chinook salmon sampled from South Alaska Peninsula area commercial fisheries.

Genetic samples will be collected through temporally stratified sampling of the commercial harvest of Chinook salmon throughout South Alaska Peninsula fisheries from 2023 to 2026. Catch samplers will sample commercial harvest at

processing facilities located at the three major South Alaska Peninsula fish processing ports: False

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Pass, King Cove, and Sand Point. Concurrent sampling of other species at the same processing facilities will result in cost savings. All genetic samples will be collected with standard ASL data (age, sex, and length). Genetic analysis will be accomplished by the ADF&G Gene Conservation Laboratory following standardized procedures using their existing statewide Chinook salmon genetic baseline.