

CONFIRMED by:
CEO of
PCF Yuzhno-Kurilsky Ryibokombinat Co., Ltd.

_____ K.V. Korobkov

SCIENCE TECHNICAL TASK

On the topic: "Description of stocks and reproduction of Kunashir Pink and Chum salmon (Sakhalin Region)"

1. Rationale for this work

To make decisions within the framework of the company's program to improve salmon fishery, it is necessary to have data on the qualitative and quantitative characteristics of Pink and Chum salmon spawners, as well as data on the conditions and level of reproduction of these species in the water bodies of Kunashir Island, which are planned to be obtained during the performance of work under this Contract Agreement.

2. Purpose and baseline information

The purpose of the work is:

1. To collect data to determine quantitative and qualitative indicators for Pacific salmon ("target species" - Pink and Chum salmon) in the study area.
2. To obtain information on the escapement of the rivers with Pink and Chum salmon, the state of the spawning grounds of the rivers Severyanka, Asin, Filatovka (with tributaries), Zolotaya (Nochka) and lakes Valentiny and Peschanoe (Kunashir Island) to assess the level of reproduction of these species in the study area.
3. To generalize and analyze the data obtained on the qualitative and quantitative characteristics of Pacific salmon spawners (Pink and Chum salmon) on the island of Kunashir.
4. To calculate the "Target" spawning escapement with Pink and Chum salmon on Kunashir. Determine the ways to maintain the escapement value at the level of 70-100% of the optimal escapement.

The following works are planned to be performed:

- 1) Studying scientific and literary data on the reproduction of Kunashir Pink and Chum;
- 2) Analysis of data obtained during field expeditions (weight, length, sex, maturity stage, absolute fecundity, fishery statistics, etc.);
- 3) Description of reproduction features of Kunashir Pink and Chum salmon;
- 4) Calculations of the "optimum" and "target" escapement to Pink and Chum spawning grounds on the island of Kunashir based on available biostatistical data for the period from 1975 to 2010. Compilation of a comparative characteristic of the calculated data in relation to the latest data obtained during the expeditions of 2021 - 2022.
- 5) Preparation of an analytical report summarizing the data collected during field expedition work on Kunashir Island.

Responsible contractor:

Engaged research scientist, PhD in Biological sciences.

Appendix No. 2
to the Contract Agreement No. _____ dated April 01, 2022

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Calendar plan
for the performance of contractual works

On the topic: **“Description of stocks and reproduction of Kunashir Pink and Chum salmon (Sakhalin Region)”**

Stage No.	Planned work	Work performance period	Result of work
1	Studying and analysis of literary data on the subject of the Contract Agreement	April – December 2022	Analytical review of available information on the state of reproduction of Kunashir Pink and Chum salmon.
2	Expedition work in the South Kuril region (Kunashir Island) to obtain: 1) biostatistical data on Pink and Chum salmon; 2) data on escapement of the rivers Severyanka, Asin, Filatovka (with tributaries), Zolotaya (Nochka) and lakes Valentiny and Peschanoe with Pink and Chum spawners, as well as data on the state of spawning grounds	September – October 2022	Obtained "initial" information for the description of Principle 1 "Sustainable target fish stocks" (Pink, Chum): - biological and statistical information; - real-time data on the entry of Pink and Chum spawners into the rivers and lakes of Kunashir Island; - information on the state of spawning grounds.
3	Office processing and analysis of data obtained during the expedition work. Writing an interim report	Until November 15, 2022	Data on the reproduction and fishing of Pink and Chum salmon on the island of Kunashir. Interim report.
4	Description of the reproduction features of Kunashir Pink and Chum salmon in 2021. Writing a final report	Until December 15, 2022	Final report.

Responsible contractor:
Engaged research scientist, PhD in Biological sciences.