

NSRAA

Hidden Falls Hatchery

Up to 2 million coho salmon smolt for release at Port Malmsbury as an alternate to Mist Cove.

No change in permitted capacity.

PERMIT ALTERATION REQUEST

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Rcvd 2/15/2019

**STATE OF ALASKA
DEPARTMENT OF FISH AND GAME
PRIVATE NONPROFIT PROGRAM**

I. IDENTIFICATION OF APPLICANT

A. Applicant Information

<u>Scott Wagner</u>		<u>NSRAA</u>
Applicant Name		Organization
<u>1308 Sawmill Creek Rd</u>		<u>907 747-6850</u>
Address		Phone Number
<u>Sitka</u>	<u>AK</u>	<u>99835</u>
City	State	Zip

B. Hatchery Information

<u>Hidden Falls Hatchery</u>	<u>#28</u>
Hatchery Name	PNP Permit Number

II. STATEMENT OF APPLICANT'S GOALS AND OBJECTIVES

- A. Describe the nature of the requested alteration, why you have decided to request it, and what you generally expect to accomplish by the expansion of your program, including answers to the following questions. Will the proposed project affect wild salmon stocks or existing fisheries? How will a significant contribution to common property fisheries be made? How will potential effects and interactions between introduced or enhanced stocks and wild stocks be assessed? What marking and recovery studies are being proposed that will allow the project to be evaluated? What are the potential benefits to fisheries or wild stocks from the proposed project? Has this project been discussed with the department's area or regional management biologists? (Attach additional pages as necessary.)

NSRAA proposes to transport up to 2 million coho salmon to Port Malmesbury for rearing and release as an alternate Deer Lake coho release location. Currently these fish are held in net pens in Deer Lake over the winter and are moved to Mist Cove in May for initial imprinting and release. Each May coho would be piped from Deer Lake into a transport vessel in Mist Cove. From there it would be a 27 mile transport to Port Malmesbury. This is proposed as an alternate strategy to improve marine survival of coho salmon released from the Mist Cove THA/SHA.

Adult returns would be harvested in traditional fisheries, terminal area fisheries and cleanded up with cost recovery. At full production of 2 million and using average assumptions on

survival (6%), weight, and price the common property value of the returning 120,000 adults is ~\$1.2 million per year beginning in 2020.

NSRAA will CWT smolts the standard rate as is currently done on Deer Lake and HFH production, to determine marine survival and interception rates in existing fisheries in the Chatham corridor. CWT sampling will occur on catches in the THA/SHA during common property fisheries and/or cost recovery operations.

This brood stock is currently in use at Port Armstrong, Deer Lake/Mist Cove and HFH.

This PAR was discussed at the fall 2018 RPT.

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III. IMPACTS ON EXISTING HATCHERY PROGRAM

A. Present Permitted Capacity
(numbers of green eggs by species)

Pink	_____	Coho	7.7 million + 1 million non-NSRAA
Chum	101 million (HF) + 24 million (MCIF) + 55 million non-NSRAA	Chinook	3.8 million
Sockeye	_____	Other	_____

B. Capacity After Request
(numbers of green eggs by species)

Pink	_____	Coho	No Change
Chum	No Change	Chinook	No Change
Sockeye	_____	Other	_____

C. Water Use

1. List the total amount of water available and the source.

Approximately 40 cfs is available (based on water rights, far more water is available in the watershed) from Hidden Falls Lake. Water can be taken from one of two inlet pipes in the lake (A-line upper water column or B-line lower water column). A portion of the intake water is run through the hydro plant and re-used for incubation and rearing. Intake water can bypass the hydro plant for multiple production uses.

2. List the amount of water presently being used.

41 cfs is used at peak demand.

3. List the additional amount of water needed for this alteration.

No additional water is needed for this request.

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IV. HATCHERY DESIGN

- A. Please provide a detailed description of new facilities needed with this alteration (e.g., buildings, incubators, rearing space, piping, etc.). This description should represent a solid concept of the proposed hatchery changes/expansion. Drawings showing the layout of new structures should be attached when appropriate.

No Changes to hatchery design or facilities.

V. DECLARATION AND SIGNATURE

I declare that the information given in this application is, to my knowledge, true, correct, and complete.

Scott Wagner
Name of Applicant

2/14/19
Date Signed

Scott Wagner
Signature of Applicant