# UPPER YUKON RIVER CHINOOK SALMON STOCK RESTORATION PLAN

Presented to: Yukon River Panel Whitehorse, Yukon

Yukon River Treaties and Fisheries / Salmonid Enhancement Program

April 10, 2019





#### Task: To developed a guide for upper Yukon River (Canadian-origin) Chinook salmon stock restoration projects.

#### **Objectives**

- Supports broader stock restoration planning / plans
- Provide guidance to inform development and implementation of stock restoration projects
- Complements 2017 Yukon Chinook Strategic Stock Restoration Initiative. Charting a Course







for Yukon Chinook

Yukon Chinook Strategic Stock Restoration Initiative

Brendan Connors, Al von Finster, Jodie



#### **Outline**

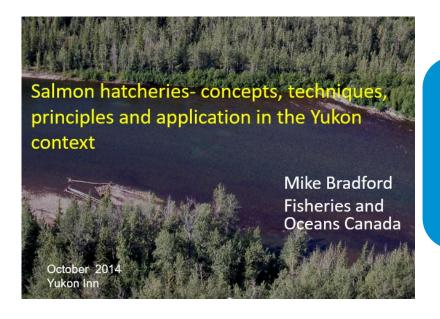
- Initiatives and activities to date
- What is Stock Restoration?
- Purpose and scope of the Guide
- Process / timeline







#### **2014 Initiatives**



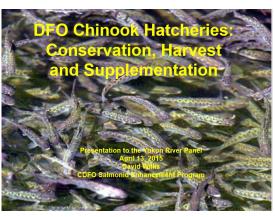
Chinook Salmon Restoration Workshop (YSSC-DFO) October

Community
Meetings
(YSSC)
November

#### 2015 Initiatives

Yukon River Panel Special Session on Stock Restoration April Yukon Chinook Strategic Stock Restoration Technical Team Initiative April - On YSSC Technical
Team
Community
Workshop
November

Yukon River Panel
Restoration & Enhancement
Fund
Stock Restoration Workshop



Yukon Salmon Sub-Committee Stock Restoration Technical Team Workshop

Whitehorse, Nov 24-25, 2015



#### 2016 Initiatives

DFO Community
Restoration
Workshop
March

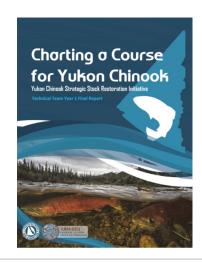
Tech Team Final Report "Charting a Course for Yukon Chinook" April

Restoration Updates to the Panel April, November

#### RESTORATION WORKSHOP SUMMARY

CANADIAN-ORIGIN YUKON RIVER SALMON MARCH 8 & 9, 2016, Whitehorse







#### **2017-2018** Initiatives

2017 Call for Proposals
Guidance for
Restoration Projects
(YRP)

2018 Call for Proposals

Guidance for
Restoration Projects

(YRP)

#### Yukon River Panel's Restoration and Enhancement Fund

#### Guidance for Stock Restoration Proposals

The intent of this document is to assist proponents in the creation of stock restoration proposals and to assist the Yukon River Panel's Joint Technical Committee's reviewers in the evaluation of stock restoration projects or concepts.

#### For 2019+

Though consultation and engagement, develop and finalize "Guide for Stock Restoration Projects"







#### What Does Stock Restoration Involve?

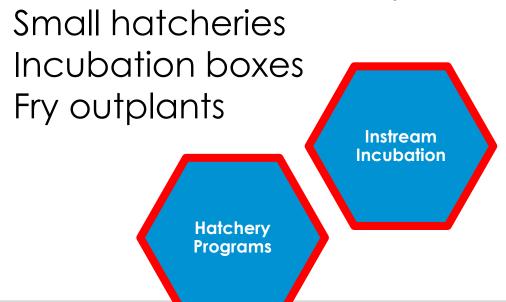


"Returning Canadianorigin Chinook salmon stocks to natural production levels through increased spawning escapements."

"Promoting recovery of Chinook salmon to maintain and re-establish cultural connections to salmon consistent with community values and involvement."

To provide guidance that informs Stock Restoration projects that are **considering artificial incubation** of Chinook salmon as an approach to restoration.

Artificial Incubation Examples:

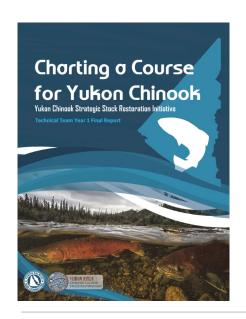




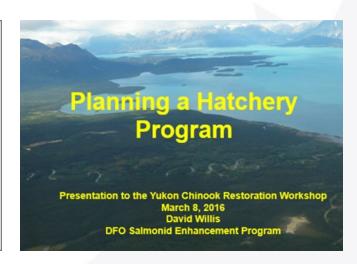
To assist with exploring and planning stock restoration project interests by:

- 1. Providing information / resource summary
- 2. Conveying guidance on regulatory and/or policy considerations and timelines
- 3. Identifying tools for selecting and evaluating strategies
- 4. Provide a framework for data collection, storage and sharing

1. Provide a source of information and references for artificial incubation stock restoration projects.



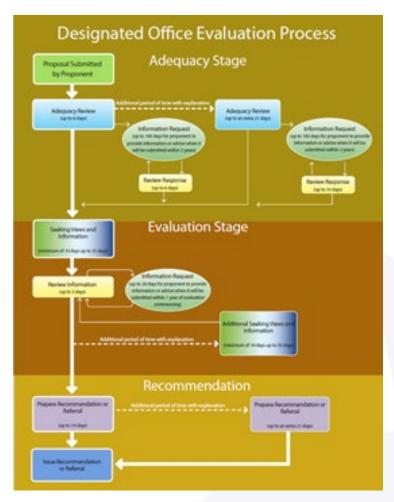




2. Provide guidance on regulatory and policy requirements as well as timelines.

#### Examples:

- Environmental Assessment
- Licenses and Permits
- Consultation and review



3. Identifying tools for selecting and evaluating strategies.

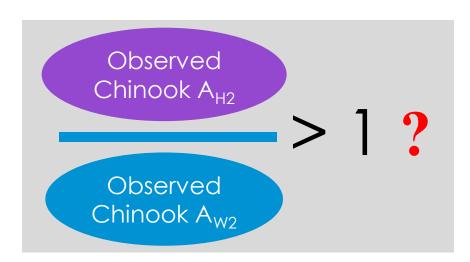
Defining measurable objectives

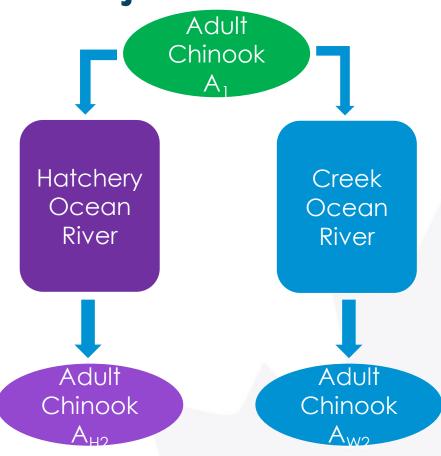
- Stating assumptions
- Specifying indicators

Monitoring indicators

- Evaluating project results against objectives
- Revising assumptions
- Evaluating and revising Strategies

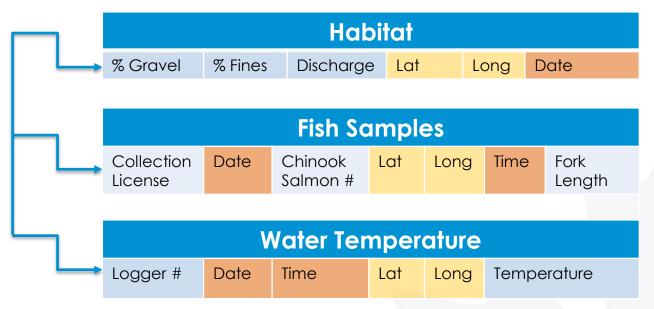
 Tools for selecting and evaluating strategies (example)





 $A_{H2}=fn(ha)*fn(hb)*fn(hc)*fn(hd)...$  $A_2=fn(wa)*fn(wb)*fn(wc)*fn(wd)...$ 

4. Provide a framework for data collection, storage and sharing

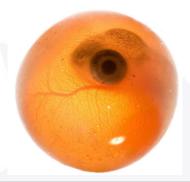


 Opportunity to collect and share information on from individual projects

#### **Next Steps**

- Development of draft guide through consultation and engagement.
- Ensuring that all regulatory, policy, procedural and environmental assessment considerations are incorporated into the guide.
- Completion Target late 2019 or 2020.





### Questions?

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