

# JFBS Pump Impeller Replacement

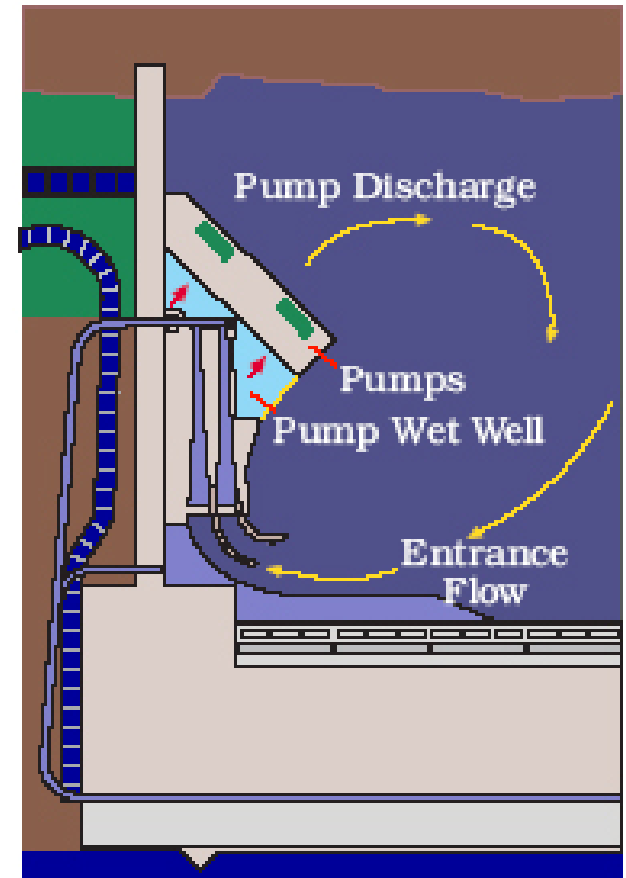
## JFBS INTRODUCTION

- Collects migrating juvenile fish and transports them safely around the dam.
- Two ways fish enter the JFBS:
  - (1) intake screens and
  - (2) surface collector.
- Most fish enter the surface collector.



## PURPOSE

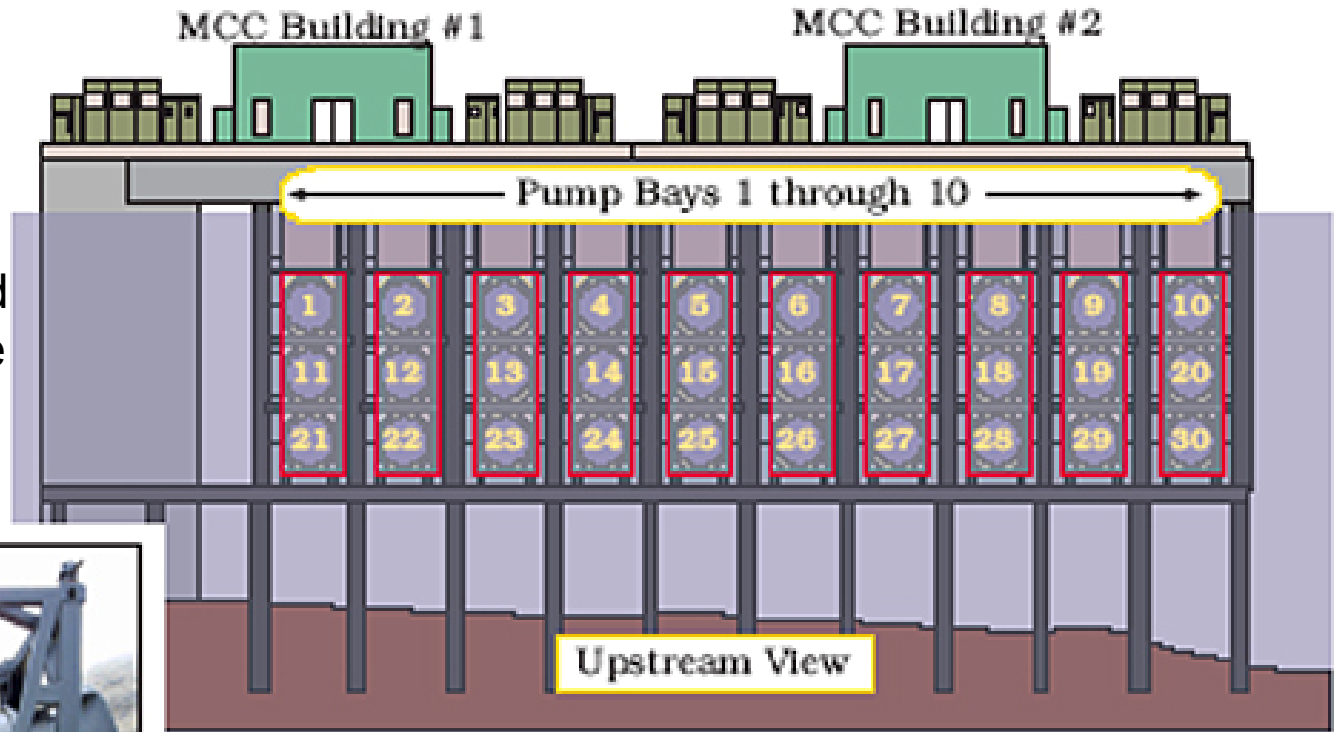
The surface collector pumping plant creates a strong water current to draw fish into the dewatering structure.



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## PUMPS

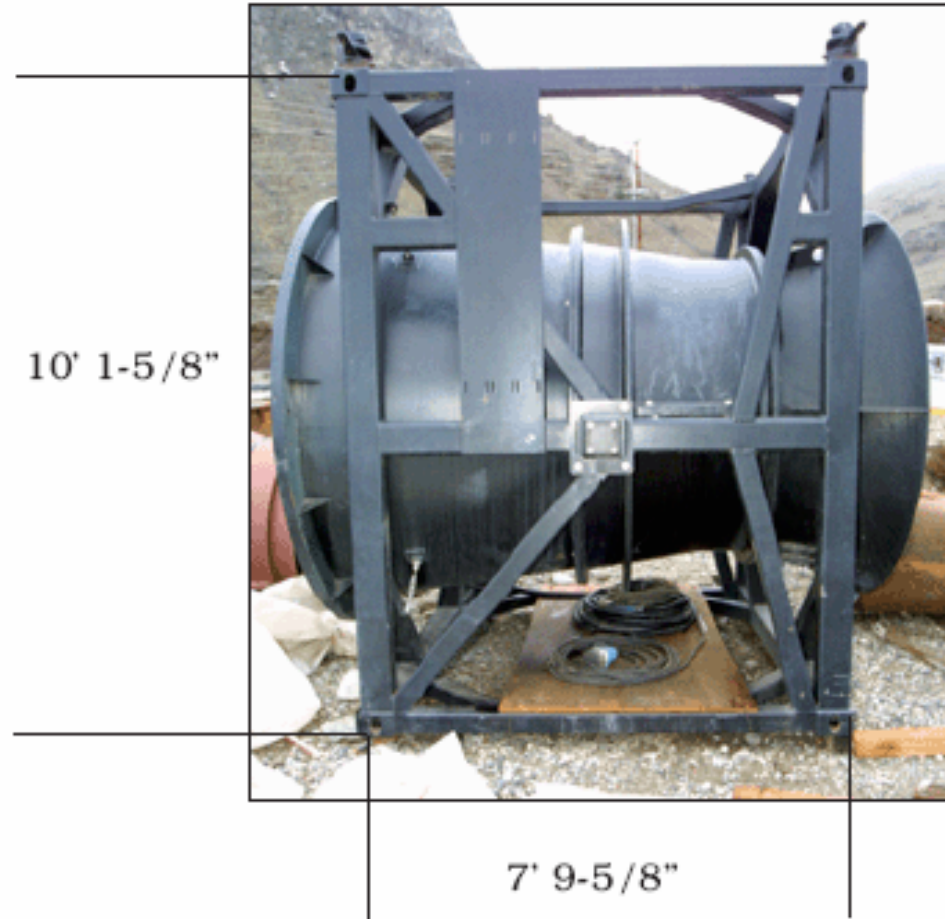
- There are 29 pumps in the dewatering pump system.
- They are mounted in a support frame stacked 3 high in 10 pump bays.



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## PUMP DIMMENSIONS

- The pump assembly is mounted in a support frame that is 10 feet 1-5/8 inches high by 7 feet 9-5/8 inches long.
- The pump motor is supported inside a curved circular cone.



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## COMPONENTS

- The pump has three main sections, the **motor** unit, the **gear box** and the **propeller**.
- The **motor** is a 120 hp 480v electric motor sealed inside a water-tight chamber.
- The motor's drive shaft attaches to the hydraulic **gear box** unit
- The gear box drives the **propeller**.

