

# Indian Head Hatchery: What's New?

- Construction of post smolt building(s)
- Allow production of larger smolt to sea
- Reduce time smolt spend at sea

## POST SMOLT BUILDING



- Additional treatment buildings with UV systems (eliminate pathogens)
- Triple screened filtration system (remove solids & prevent escapes)

## EFFLUENT TREATMENT



- Additional wells for hatchery
- Both freshwater and saltwater
- Redundancy for freshwater
- Saltwater for post smolt (reduce time at sea)

## WATER (FW & SW)



- Automated system
- Reduce stress on fish
- Improve efficiency (time and injection accuracy)

## VACCINATION



- Modern egg incubation system
- Improves egg survival and health
- Reduces freshwater use (recirculating system)

## EGG INCUBATION

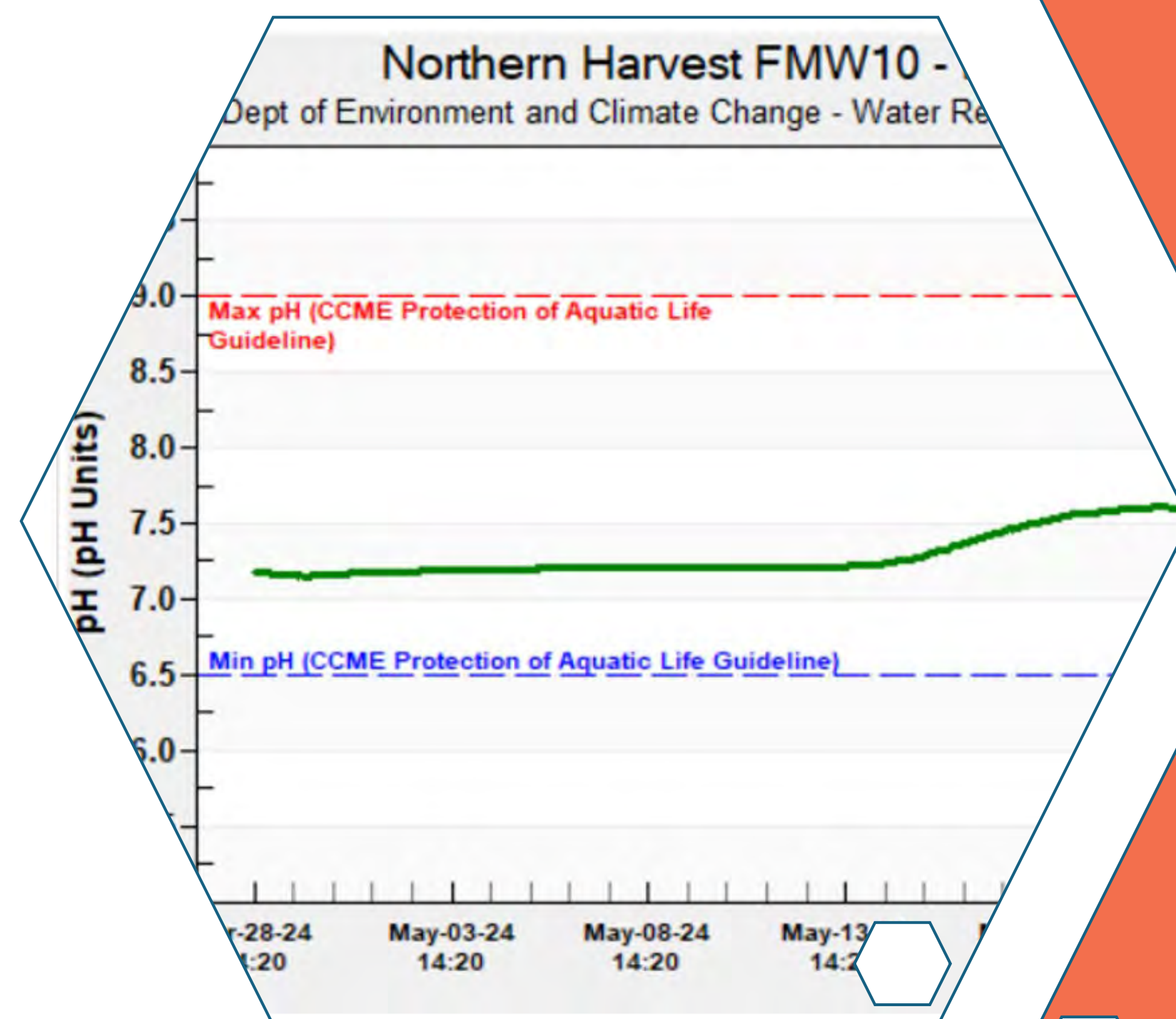


# Hatchery: Monitoring



## Water Quality

- pH
- Oxygen
- Ammonia
- Nitrate/Nitrite
- Temperature



## Fish Health

- (Mowi and Provincial)
- Daily checks by staff (health and behaviour)
  - Veterinarian checks (monthly and quarterly for bacteria and viruses)
  - Health Permits issued by Provincial vets before transfer to sea

## Real Time

- Live on Department of Environment website
- Well water parameters (e.g. pH, temp)



# Hatchery: Mitigation



# Hatchery Site


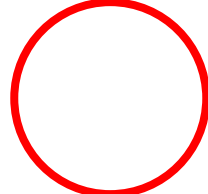
Town of Stephenville

Noels Pond

Port of Stephenville



## Legend

-  Hatchery Buildings
-  Hatchery Wellfield