



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Southwest Region Office
PO Box 47775, Olympia, WA 98504-7775 • 360-407-6300

April 14, 2023

Shane McEneny
Beaver Creek Hatchery
28 Beaver Creek Road
Olympia, WA 98504

Re: Upland Finfish Hatching and Rearing General Permit National Pollutant Discharge
Elimination System (NPDES) inspection (WAG131027)

Dear Shane McEneny:

Thank you for your time while I visited your facility on March 9, 2023. Enclosed is the Upland
Finfish Hatching and Rearing General Permit NPDES inspection report (WAG131027).

Please contact me at morgan.maupin@ecy.wa.gov or (360) 790-3343 if you have any questions,
comments, or would like additional technical assistance.

Sincerely,

Morgan Maupin
Industrial Stormwater
Southwest Region Office
Water Quality Program

Enclosures: Upland Finfish Hatching and Rearing General Permit NPDES inspection report
(WAG131027)
PhotoLog

cc: Darrin Hamilton, WDFW
Ann Leroux, WDFW
Angela Stefani, WDFW
Eric Kinne, WDFW
Laurie Niewolny, Ecology

The main rearing pond is fed only by Beaver Creek, and discharges directly into Beaver Creek during drawdown for fish release only (Location 2 on the site map). Otherwise, rearing pond water is recirculated through the raceways. The main raceways discharge into Beaver Creek at location 6, and the H ponds discharge into Beaver Creek at location 7. The pollution abatement pond discharges into the Elochoman River at location 8.

Inspection Narrative:

I (Morgan Maupin) met with WDFW staff Shane McEneny, Angie Stefani, Anne Leroux, and Darrin Hamilton. Shane is the hatchery manager, Angie is the NPDES permit compliance lead, Anne is a water quality specialist in charge of sampling protocols and Discharge Monitoring Reports (DMRs), and Darrin is a hatchery staff member.

We reviewed the required paperwork and discussed permit management at the facility, then toured the outside of the site. We walked around the site counterclockwise, starting at the Beaver Creek influent (photo 1), moving to the Elochoman River influent (photo 5), the pollution abatement pond (photos 6-7), the upland solids disposal area (photo 8), the H ponds and raceways (photos 9-11), ending at the hatchery building where I observed the chemical storage area (photo 13) and the incubation room (photo 14).

Compliance with Permit:

S3. Discharge Limits – The following discharge limits apply to this facility:

- Discharges from the rearing pond or raceways (excluding drawdown for fish release): settleable solids 0.1 net mL/L, TSS 5.0 net mg/L and 15 mg/L instantaneous maximum.
- Pollution abatement pond discharges: settleable solids 1.0 mL/L, TSS 100 mg/L.
- Rearing pond drawdown for fish release: settleable solids 1.0 mL/L, TSS 100 mg/L.

S4. Testing Schedule – They are collecting and analyzing samples and measuring flow as follows: For the influent, which may be a combination of influent from Beaver Creek, the Elochoman River, and the well they measure settleable solids weekly, total suspended solids (TSS) monthly, and temperature continuously (reported as daily max). For multiple intake sources, they collect a flow-proportional composite sample.

For the hatchery effluent to Beaver Creek they measure settleable solids weekly, TSS monthly, temperature continuously, and flow on days when settleable solids or TSS samples are collected. During rearing pond or raceway drawdown for fish release they measure settleable solids and TSS once per drawdown.

At the pollution abatement pond effluent they measure settleable solids weekly, total suspended solids monthly, and flow on days when settleable solids are measured.

They are in compliance with all requirements for this section of the permit.

S5. Reporting and Record Keeping Requirements – All Discharge Monitoring Reports this permit cycle have been complete and submitted on time. All other reports including the 2022 Disease Control Chemical Use report and Sample and Analysis Plan (SAP) for Temperature Monitoring (impaired waterbody) were complete and submitted on time. Operational logs including the chemical operation log and production log were both available for review at the facility.

The Facility Site Plan, which includes the Site-Specific Sampling Plan, the Solid Waste Management Plan, the Pollution Prevention Plan, and the Spill Control Plan, must be submitted to Ecology by April 1, 2024.

They are in compliance with all requirements for this section of the permit.

S6. Operation and Maintenance – Based on observations and conversations with hatchery staff during this inspection, they are in compliance with all requirements for this section of the permit. Specific operations and maintenance activities discussed or observed include:

- Proper disposal of all solids identified in the Solid Waste Management Plan described below. All solids including sand, silt, mud and other debris from intake waters, fish mortalities, blood from kill spawning and harvesting operations, and floating debris from raceways are disposed of in upland pits or in onsite earthen pits lined with quicklime.

- Proper storage of hazardous materials including Formalin barrels.

S7. Site-Specific Sampling Plan – The site-specific sampling plan includes:

- A map of all discharge and sampling points
- The sources of water for influent and the receiving waters
- How each pond or raceway contributes to the discharge
- How flow is measured at each outfall.

Missing items from the site-specific sampling plan include:

- A list with corresponding latitudes/longitudes for all discharge and sampling points on the map
- A description of how composite samples are collected.

S8. Solid Waste Management Plan – The solid waste management plan contains all of the required elements, including descriptions of how all of the following solid wastes are to be handled:

- Sands, silts, and other debris from source waters
- Accumulated settled solids in ponds and raceways
- Fish mortalities, including from kill spawning operations
- Blood from kill spawning and harvesting
- Floating debris from ponds and raceways

They are in compliance with this section of the permit.

S9. Pollution Prevention Plan – The pollution prevention plan contains all of the required elements, including methods to prevent pollution from:

- Feeding Practices
- Raceway cleaning practices
- Fish handling and release practices
- Pathogen treatment methods
- Chemical storage and disposal.

They are in compliance with this section of the permit.

S10. Spill Control Plan – The spill control plan contains all of the required elements, including:

- A list of all potentially hazardous materials stored on site
- A description of preventive measures to prevent spills
- A description of the reporting system in the event of a spill

Conclusion:

1. Update the site-specific sampling plan to include latitude/longitude of all discharge and monitoring locations, and a description of how composite samples are collected.

Reminder:

1. The Facility site plan is due for submittal on April 1, 2024.

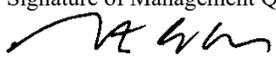
Name and Signature of Inspector  Morgan Maupin	Agency/Office Number Ecology/SWRO (360) 790-3343	Date March 17, 2023
Signature of Management QA Reviewer  Steven G. Eberl, P.E.	Agency/Office Number Ecology/SWRO (564) 999-3584	Date April 14, 2023

Photo 1 of 14: The Beaver Creek intake location.



Photo 2 of 14: Beaver Creek runs along the southern edge of the site.



Photo 3 of 14: The main rearing pond.



Photo 4 of 14: The discharge point of the main rearing pond into Beaver Creek.



Photo 5 of 14: The Elochoman River intake location.



Photo 6 of 14: The pollution abatement pond.



Photo 7 of 14: The pollution abatement pond discharge channel.



Photo 8 of 14: Upland pit for disposal of morts, solid waste from cleaning and from egg collection operations.



Photo 9 of 14: The "H ponds."



Photo 10 of 14: "H ponds" discharge point into Beaver Creek.



Photo 11 of 14: The rearing raceways.



Photo 12 of 14: The raceways discharge point into Beaver Creek.



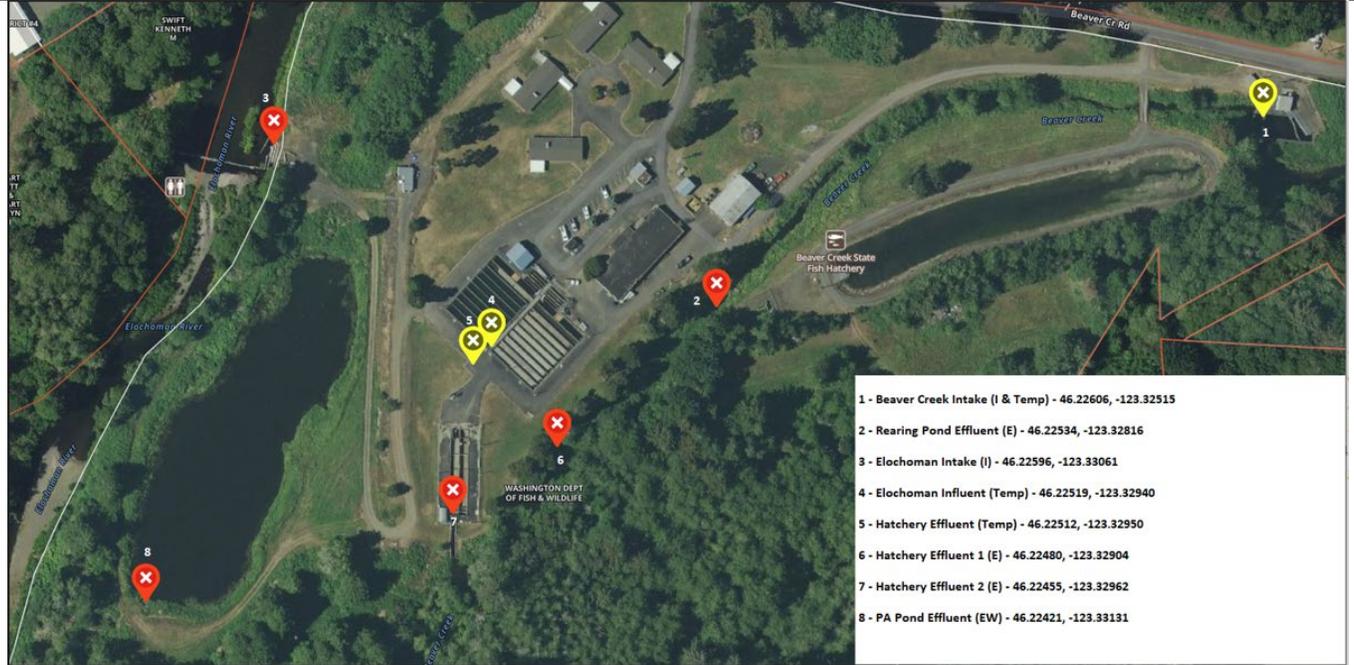
Photo 13 of 14: Formalin is stored inside with secondary containment.



Photo 14 of 14: The intermediate raceways in the incubation room.



Sampling Locations map



Water flow map

