Umatilla Hatchery Programs (Umatilla River Spring Chinook, Fall Chinook, and Coho)

Mitigation Action Plan

SUMMARY

This Mitigation Action Plan identifies mitigation measures applicable to BPA's continued funding for Umatilla Hatchery Programs for Umatilla River Spring Chinook, Fall Chinook, and Coho at the Umatilla Hatchery and satellite facilities in Umatilla and Morrow counties, Oregon.

This Mitigation Action Plan is for the Proposed Action and includes the integral elements and commitments made in the Environmental Assessment (EA) to mitigate potential adverse environmental impacts.

ODFW, CTUIR, and the Westland Irrigation District would implement this project, and contractors would build it. Relevant portions of this Mitigation Action Plan will be included in the construction contract specifications, which will obligate the contractors to implement the mitigation measures that relate to contractor responsibilities during and after construction.

If you have any general questions about the project, contact the Project Manager, Eric McOmie: toll-free telephone at 800-622-4519, direct telephone at 503-230-4964, or email: ermcomie@bpa.gov.

If you have questions about this Mitigation Action Plan, contact the BPA lead for the environmental review, Jeff Maslow: toll-free telephone at 800-622-4519, direct telephone at 503-230-3928, or email: jjmaslow@bpa.gov.

BPA may amend this Mitigation Action Plan if revisions are necessary due to new information or project adjustments.

MITIGATION MEASURES

The Mitigation Action Plan Table provides the minimization and mitigation measures identified to reduce potential impacts associated with the Proposed Action. These minimization and mitigation measures appear in Table 2.3 of the final EA, which also identifies the responsible party.

Mitigation Action Plan Table

MINIMIZATION AND MITIGATION MEASURE	IMPLEMENTATION
Geology and Soils	
Install and maintain all temporary erosion controls downslope of applicable project activities until construction actions are complete.	Site and Facility Upgrades and Additions / Before and during construction
Segregate topsoil from subsoil and store during excavation for use in site reclamation.	Site and Facility Upgrades and Additions / During construction
Grade and cover disturbed areas and areas of excavated soils with at least two inches of compost upon completion of construction.	Site and Facility Upgrades and Additions / During construction
Implement Best Management Practices (BMPs) for erosion and sediment control measures during construction.	Site and Facility Upgrades and Additions / Before and during construction
Water Resources (Water Quantity and Groundwater, Water Quality)	
Follow project-specific Clean Water Act permit requirements.	Site and Facility Upgrades and Additions / Before, during, and after construction; and during acclimation/release operations
Comply with Umatilla Hatchery Complex National Pollutant Discharge Elimination System Permit Waste Management Plans	Chinook and coho production and release / During hatchery operations
Use sediment barriers such as fences, weed-free straw matting/bales, or fiber wattles, as necessary, in all work areas to intercept any surface flow that might transport sediment to the Columbia River.	Site and Facility Upgrades and Additions / Before and during construction / Contractor
Inspect erosion and sediment controls weekly, maintain them as needed to ensure their continued effectiveness, and remove them from the proposed hatchery site when vegetation is re-established, and the area has been stabilized.	Site and Facility Upgrades and Additions / Before and during construction / Contractor
Maintain materials for spill containment and cleanup on site during pre-construction, construction and restoration phases of the project.	Site and Facility Upgrades and Additions / Before and during construction / Contractor
Locate vehicle staging, cleaning, maintenance, refueling, and fuel storage areas a minimum of 150 feet from the Umatilla River.	Site and Facility Upgrades and Additions / Before and during construction / Contractor
Wash heavy equipment before delivery to the project site to remove oils, fluids, grease, etc. Inspect and clean equipment regularly. Prohibit discharge of vehicle wash water into any stream, water body, or wetland without pretreatment to meet applicable water quality standards.	Site and Facility Upgrades and Additions / During construction / Contractor
Inspect machinery daily for fuel or lubricant leaks.	Site and Facility Upgrades and Additions / Before during and after construction / Contractor
Design and operate on-site chemical storage buildings to fully contain accidental spills of chemicals stored at the proposed facilities.	Site and Facility Upgrades and Additions / Before during and after

	construction / Contractor
Inspect and maintain access roads and other facilities after construction to ensure proper function and nominal erosion rates.	Site and Facility Upgrades and Additions / After construction
Perform all non-emergency maintenance of equipment off-site.	Site and Facility Upgrades and Additions / Before and during construction / Contractor
Vegetation	
Seed disturbed areas with a native erosion-control grass seed mix to prevent future erosion, stem the invasion of noxious weeds, and provide wildlife benefits.	Site and Facility Upgrades and Additions / During and after construction / Contractor
Cover all temporarily disturbed areas with at least two inches of compost and replant with native vegetation.	Site and Facility Upgrades and Additions / During construction
Implement a noxious weed control program that includes the following elements: • Treat known infestations before ground disturbance begins by scheduling appropriate weed treatments, such as mowing, hand pulling, and use of approved herbicides. • Map and flag areas of noxious weed populations so these populations can be avoided when possible. • Ensure equipment brought into the project area is free of weeds and weed seeds. • Work from relatively weed-free areas into the infested areas rather than vice-versa. • Clean equipment and vehicles of mud, dirt, and plant parts after working in infested areas. • Maintain weed-free staging areas. • Apply herbicides according to labeled rates and recommendations to ensure protection of surface water, ecological integrity, and public health and safety. Implement and periodically schedule post-project control of noxious weeds on an as-needed basis.	Site and Facility Upgrades and Additions / After construction
Fish	
Apply conservation measures and terms and conditions resulting from consultation with US Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS).	Site and Facility Upgrades and Additions / Before during and after construction / During production, acclimation, and release operations
Apply the screening criteria for water withdrawal devices found in the 2011 NMFS publication "Anadromous Salmonid Passage Facility Design" that sets forth standards designed to minimize the risk of harming naturally produced salmonids and other aquatic fauna.[1]	During production, acclimation, and release operations
Maintain fish screens at water intake structures to minimize entrainment of aquatic species.	During production, acclimation, and release operations
Follow established protocols (legal or scientific) for handling ESA-listed species during broodstock collection and smolt trapping.	During broodstock collection and smolt trapping
Ensure that the facilities are operating in compliance with all applicable fish health	During production, acclimation, and

[1] National Marine Fisheries Service. Anadromous Salmonid Passage Facility Design. Northwest Region. July 2011. Available at: https://repository.library.noaa.gov/view/noaa/23894 (last accessed March 28, 2024).

guidelines and facility operation standards and protocols, by conducting annual audits and producing reports that indicate the level of compliance with applicable standards and criteria.	release operations
Adaptively manage fish releases to maximize survival of released and non-target fish based on recent studies, research, monitoring, and evaluation activities.	During production, acclimation, and release operations
Use therapeutic chemicals only when necessary, and typically for short durations, to be in conformance with accepted standard practices and treatment applications.	During production, acclimation, and release operations
Wildlife	
Apply timing and methods of construction consistent with conservation measures and terms and conditions from consultation with USFWS.[2]	Site and Facility Upgrades and Additions / Before and during construction
Land Use and Recreation	
Provide appropriate contact information for contractor liaisons and project staff to nearby residents for any concerns or complaints during construction.	Site and Facility Upgrades and Additions / During and after construction
Repair damage to roads that may occur through project construction or construction vehicle use.	Site and Facility Upgrades and Additions / Before during and after construction
Limit construction activity to normal workday hours (typically 8:00 AM to 5:00 PM) to minimize impacts to nearby residents.	Site and Facility Upgrades and Additions / During construction
Visual Quality	
Remove all temporary structures, devices, materials, and equipment from the site upon completion of all construction activities; and dispose of all excess spoils and waste materials in compliance with federal, state, and local regulations.	Site and Facility Upgrades and Additions / After construction
Air Quality, Noise, and Public Safety	
Sequence and schedule construction work to minimize the amount of bare soil exposed to wind erosion.	Site and Facility Upgrades and Additions / Before and during construction
Apply dust control measures (e.g., watering trucks, low speeds, apply gravel to access roads, etc.) as needed. Minimize dust generation during facility construction by watering and using dust suppression equipment. Sequence and schedule work to reduce the amount of bare soil exposed to wind erosion and potential fugitive dust production.	Site and Facility Upgrades and Additions / Before and during construction
Do not burn vegetation or other debris associated with construction clearing.	Site and Facility Upgrades and Additions / During construction
Handle and dispose of all potentially odorous waste during operation in a manner that does not generate odorous emissions.	Site and Facility Upgrades and Additions / During and after construction
Recycle or salvage nonhazardous construction and demolition debris, as well as waste generated during facility operation, where practicable.	During construction, production, acclimation, and release operations
Use flaggers and safety signage as necessary to avoid vehicle and other conflicts.	Site and Facility Upgrades and Additions / Before and during construction
Use the least noise-generating equipment and methods for operations at facilities	Site and Facility Upgrades and

[2] U.S. Fish and Wildlife Service. Biological Opinion to BPA for the Umatilla Hatchery Program, Umatilla and Wallowa Counties, Oregon and Walla Walla County, Washington. La Grande Field Office, September 12, 2008.

where noise might intrude into residential areas. Require sound-control devices on all construction equipment powered by gasoline or diesel engines that are at least as effective as those originally provided by the manufacturer.	Additions / Before and during construction
Require sound-control devices that are at least as effective as those originally provided by the manufacturer on all equipment powered by gasoline or diesel engines.	Site and Facility Upgrades and Additions / Before and during construction
Dispose of cleared vegetation and other debris in a manner other than burning, to avoid or minimize air quality impacts. Transport all such material to an approved composting or landfill facility, as appropriate.	Site and Facility Upgrades and Additions / Before and during construction
Prepare and implement a Spill Prevention, Containment, and Control Plan. Include the following measures: • reduce and recycle hazardous and non-hazardous wastes • notification procedures • specific cleanup and disposal instructions for different products • quick response containment and cleanup measures • proposed methods of disposal of spilled materials • employee training on spill containment	Site and Facility Upgrades and Additions / Before construction
Develop and follow the protocol for dealing with hazardous substances inadvertently discovered during project activities. Conduct all project-related activities in compliance with regulations and guidelines for use, handling, storage, and disposal of toxic and hazardous substances.	Site and Facility Upgrades and Additions / Before and during construction
Dispose of non-hazardous waste in approved landfills. Dispose of hazardous waste according to applicable federal and state laws.	Site and Facility Upgrades and Additions / During and after construction
Conduct all project-related activities in compliance with regulations and established guidelines for use, handling, storage, and disposal of toxic and hazardous substances.	During construction, production, acclimation, and release operations
Train staff in the proper use, transport, handling, and storage of all chemicals to minimize dangers of overexposure or accidental release to the environment.	During construction, production, acclimation, and release operations
Coordinate with local law enforcement, fire protection, and other emergency responders to ensure they are prepared to address any emergencies that may arise during construction.	Site and Facility Upgrades and Additions / Before and during construction
Prepare a Safety Plan in compliance with state requirements before starting construction; specify how to manage hazardous materials, such as fuel and any toxic materials found in work sites; include a Fire Prevention and Suppression Plan, and detail how to respond to emergency situations. Keep the Safety Plan on site during construction and maintain and update, as needed.	Site and Facility Upgrades and Additions / Before construction
Require the construction contractor to hold safety meetings with workers at the start of each work week to review potential safety issues and concerns.	Site and Facility Upgrades and Additions / Before and during construction
Cultural Resources	
Mark known cultural resource sites as 'avoidance areas' on construction drawings and flag as 'no-work areas' in the field prior to construction.	Site and Facility Upgrades and Additions / Before construction
Modify project design and incorporate protective measures in design to avoid or minimize impacts to cultural resources	Site and Facility Upgrades and Additions / Before construction
Protect any unanticipated cultural resources discovered during construction as	Site and Facility Upgrades and

follows: • Stop work in the immediate vicinity of the discovery and protect find in place. • Notify BPA Archaeologist and BPA Contracting Officer's Representative immediately. Implement mitigation or other measures as instructed by BPA.	Additions / During construction
For new chiller construction: (1) excavate down two feet (as planned for construction) to native soil in the area where the chiller addition would be located, or up to two additional feet of excavation in a smaller discrete sample area if native soil is not encountered within two feet of excavation; (2) conduct an archeological investigation in the area of exposed native soil with up to two shovel test probes; and (3) findings must be negative for construction to continue without further consultation.	Site and Facility Upgrades and Additions / During construction
Climate Change	
Encourage the use of the proper size of equipment for each job because larger equipment requires the use of additional fuel.	Site and Facility Upgrades and Additions / Before construction
Ensure that all vehicle and construction equipment engines are maintained in good operating condition to minimize exhaust emissions.	Site and Facility Upgrades and Additions / Before and during construction
Minimize vehicle idling.	Site and Facility Upgrades and Additions / During construction
Encourage carpooling and the use of shuttle vans among workers to minimize emissions.	Site and Facility Upgrades and Additions / Before and during construction
Use alternative fuels, such as propane, for stationary equipment at the construction sites or use electrical power where practicable.	Site and Facility Upgrades and Additions / During construction