



Instructions for the Water Type Modification Form

The Water Type Modification Form and the Water Type Map are used to propose changes to the Washington State Department of Natural Resources (DNR) Water Typing Maps.

Incomplete forms will be returned to the proponent. The proponent will be notified when a decision has been made.

Submit a separate Water Type Modification Form for each water type change. For multiple stream segments with similar water typing, provide information on the Segment Tally Sheet. Modifications must be shown on a Water Type Map.

Mapping Standards

- Proponents may use one (1) map for multiple changes (add, remove, change of location, change of water type, other) to the hydro layer.
- Information must be displayed clearly.
- Proponents that choose to use a map other than the DNR Water Type Map must follow the Alternate Map Standards on page 7.
- Label each change referring to the accompanying form.
- Use blue or black permanent ink.
- Do not use highlighters.

Proponent Information. The proponent is the person submitting the Water Type Modification Form. Enter the name of the proponent, organization they are affiliated with, mailing address, telephone number, and email address.

Surveyor Information. The surveyor is the person who completed the survey. Enter the name of the surveyor, organization they are affiliated with, mailing address, telephone number, and email address.

Landowner Information. The landowner is the person who has actual control of the forest land. Enter the name of the landowner, mailing address, telephone number, and email address.

Landowner Notified. Check 'yes' if the landowner was notified of the proposed water type change or if the proponent is the landowner. Check 'no' if the landowner has not been notified of the proposed water type change.

Check applicable boxes:

- Adding Typed Waters.** Check this box to add typed waters to the map. Refer to WAC 222-16-031 for information on water typing.
- Removing Typed Waters.** Check this box if typed waters are shown on the DNR's mapping system, but do not exist on the ground or if the water feature does not meet a WAC 222-16-031 definition. Water features may include pipelines, actively maintained irrigation ditches, or seasonal streams not physically connected by an above ground channel system to type S, F, or Np waters.
- Changing Location of Typed Waters.** Check this box if typed waters are mapped incorrectly in DNR's mapping system.
- Changing Water Type.** Check this box if you are changing the water type per WAC 222-16-031. Refer to Forest Practices Board Manual Section 13 for more information on fish use determination.
- Other; Describe_____.** Check this box and briefly describe if you are verifying a stream type or identifying the Np/Ns break.

Block 1. Enter an identifier for each water body. The identifier should correspond with the identifier used on the map. Do not use 'S', 'F', 'N', or 'X'.

Block 2. Enter the official name of the stream or water body. If unknown, enter 'unknown'.

Block 3. Enter the official name of the major stream or water body that this proposed water flows into. If not applicable, enter 'N/A'.

Block 4. Enter the legal description of where the water body exists (i.e. Section 8, Township 12 North, Range 5 West, W.M.).

Block 5. Enter the county or counties in which the water body is located.

Block 6. Enter the existing water type shown on the current DNR hydro layer. If the water body does not currently exist on the DNR hydro layer, enter 'N/A'.

Block 7. Enter the proposed water type—'S', 'F', 'Np', or 'Ns' (refer to WAC 222-16-031). If the water body does not exist, enter 'remove'.

Block 8. Enter the date(s) that the field assessment or protocol survey was completed.

Block 9a. If this Water Type Modification Form is associated with a Forest Practices Application, check 'yes'. If it is not associated with a Forest Practices Application, check 'no'. Enter the Forest Practices Application Number, if known.

Block 9b. If this Water Type Modification Form is associated with an enforcement document, such as an Informal Conference Note as a result of an Interdisciplinary Team meeting, check 'yes'. If it is not associated with an enforcement document, check 'no'. Enter the enforcement document number if known.

Block 10. Change is based on the following (check all that apply):

- Water feature does not meet WAC 222-16-031 definition. Describe:_____** Check this box only if there is a water feature that does not meet the definition outlined in WAC 222-16-031. These features may include pipelines, actively maintained irrigation ditches, or seasonal streams not physically connected by a defined channel to type S, F, or Np waters.

Indicate how you arrived at this conclusion. Label the location on the Water Type Map.

Survey Method:

- Electrofishing Protocol Survey.** Check this box if the proposed change is based on an electrofishing protocol survey attach survey information.
- ID Team.** Check this box if the proposed change is based upon an Interdisciplinary Team meeting and attach the Informal Conference Note associated with it.
- Visual Observation.** Check this box if the proposed change is based on visual observations made in the field.
- Random Measurements.** Check this box if the proposed change is based on random measurements taken in the field. Document measurements in Block 12.
- Incremental Measurements.** Check this box if the proposed change is based on incremental measurements taken in the field. Document measurements in Block 12.
- Physical Characteristics.** Check this box if the proposed change is based on bankfull width, gradient, or seasonality.

Fish Found. Check 'yes' if fish were found. Indicate what species, if known. Check 'no' if fish were not found.

- Channel is a Public Water Diversion.** Check this box if there is a public water diversion to more than ten residential or camping units or a public accommodation facility licensed to serve more than ten people from this channel. Attach a copy of Department of Ecology water right or indicate the reference number. Indicate the distance from the diversion and whether the proposed change is upstream or downstream of the diversion. Refer to WAC 222-16-031(3) for more information.
- Channel is a Fish Hatchery Diversion.** Check this box if water is diverted from this channel to a fish hatchery. Enter the name of the hatchery. Indicate the distance from the hatchery and whether the proposed change is upstream or downstream from the hatchery diversion. Refer to WAC 222-16-031(2)(b) for more information.

Block 11. Using the boxes provided, check whether flows were 'above normal', 'normal', or 'below normal' at the time of the survey.

Was there a drought warning issued by DNR? Check 'yes' if a drought warning was issued by DNR. If a drought warning was not issued by DNR, check 'no'.

If yes, describe how stream flows and fish determinations were unaffected by drought conditions (attach pictures and other relevant information). Drought conditions may alter how species occupy the habitat or fish access into the habitat. Per Forest Practices Board Manual Section 13, proponents must document how factors, such as drought, did not affect fish distribution in the stream system. If a drought warning was issued by DNR, provide information demonstrating how stream flows and fish use determination were unaffected by drought conditions. Attach pictures documenting water levels at the time of the survey. Attach any additional information necessary.

Block 12. Channel Characteristics (Use Segment Tally Sheet for multiple stream segments). Provide the following channel characteristics information:

- Enter the number of bankfull width measurements used to calculate the average*.
- Enter the average bankfull width measurement.
- Enter the average stream gradient.
- Enter the average wetted stream width at the time of the survey.
- Enter the number of protocol pools that were surveyed.
- If a pond or impoundment greater than 0.5 acre in size at seasonal low flow exists within the surveyed segment, check 'yes'. If it does not exist, check 'no'.

*Proponents of water typing changes, per WAC 222-16-031(6)(f), are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet. If at least 10 evenly spaced BFW measurements were not provided, please describe why in the space provided.

Examples for Block 12:

(12) Channel Characteristics (Use Segment Tally Sheet for multiple stream segments). Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 6 Average Bankfull Width 4.1ft
Average Gradient 8.2
Average Wetted Width 2.5ft Number of Protocol Pools 3
Ponds and Impoundments > 0.5 acre Yes No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here: The surveyed stream was a tributary for a Type F stream and only 300ft long. Measurements were taken every 50ft.

(12) Channel Characteristics (Use Segment Tally Sheet for multiple stream segments). Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 8 Average Bankfull Width 3.2ft
Average Gradient 6.3
Average Wetted Width 1.5ft Number of Protocol Pools 2
Ponds and Impoundments > 0.5 acre Yes No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here: Stream was 700ft and subsurface for 300ft.

Block 13. Indicate how the location of the water type break was determined, checking all boxes that apply. Provide a description of the water type break and identify how it was marked in the field.

Electrofishing Protocol Survey. See Forest Practices Board Manual Section 13 for information on conducting a protocol survey. A Washington State Department of Fish and Wildlife (WDFW) Scientific Collections Permit is required if performing an electroshocking survey. In the Bulltrout Overlay (WAC 222-16-010), a National Oceanographic and Atmospheric Administration (NOAA) permit is also required. Indicate on the map where last fish was detected and where the water type break was marked in the field. Show the location of the last fish detected AND the F/N break on the map.

End of Harvest or Property Boundary.

Uppermost Point of Perennial Flow. Describe in Block 16 how this was determined.

Last Fish Observed. Describe fish species and size in Block 16.

Physical Characteristics. Using WAC 222-16-031 (3)(b)(i), describe stream characteristics observed in the field in Block 16.

(i) Waters having any of the following characteristics are presumed to have fish use:

(A) Stream segments having a defined channel of 2 feet or greater within the bankfull width in Western Washington; or 3 feet or greater in width in Eastern Washington; and having a gradient of 16 percent or less;

(B) Stream segments having a defined channel of 2 feet or greater within the bankfull width in Western Washington; or 3 feet or greater within the bankfull width in Eastern Washington, and having a gradient greater than 16 percent and less than or equal to 20 percent, and having greater than 50 acres in contributing basin size in Western Washington or greater than 175 acres contributing basin size in Eastern Washington, based on hydrographic boundaries;

(C) Ponds or impoundments having a surface area of less than 1 acre at seasonal low water and having an outlet to a fish stream;

(D) Ponds of impoundments having a surface area greater than 0.5 acre at seasonal low water.

Do Type F physical characteristics occur above surveyed segment? Check 'yes' if Type F physicals exist above the surveyed stream segment. Check 'no' if Type F physicals do not exist above the surveyed stream segment. Refer to WAC 222-16-031 for more information.

Block 14. Check 'no' if fish passage barriers do not exist downstream of the surveyed stream segment and continue to Block 15. Check 'yes' if fish passage barriers do exist downstream of the surveyed segment and indicate the following:

Natural Barrier. Check if a natural barrier exists downstream of surveyed stream segment. Indicate if it is a falls, cascades, bedrock chute, or other and describe. Enter the length, height, width, and gradient of the natural barrier.

Temporary Barrier. Check if a temporary barrier exists downstream of the surveyed stream segment.

Manmade Barrier. Check if a manmade barrier exists downstream of the surveyed stream segment and describe it.

Indicate if fish were observed upstream of the barrier. Indicate how fish passage barriers were identified. If maps were used, specify which maps. Describe the location(s) of fish passage barriers downstream of the surveyed segment. Provide latitude and longitude if possible.



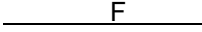
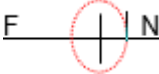



Block 15. Check 'no' if there is no evidence of recent mass wasting or scouring events. Check 'yes' if there is evidence of recent mass wasting or scouring events in the surveyed segment from debris flows, flood events, etc. Estimate when the event occurred and describe how this affected current stream channel conditions and fish distributions within the surveyed segment.

Block 16. Provide any additional information that may assist with the review process.

Water Type Modification Form Map Instructions

Water Type Maps are available from the Washington State Department of Natural Resources (DNR) website at <http://www.dnr.wa.gov/forest-practices-water-typing> or any DNR region office. Applicants need to know the legal description (township, range, and section) in order to download or request a map. Please contact the county assessor if you need help determining your legal description. DNR will accept DNR's Water Type Maps or company generated GIS maps (see next page for alternate map standards).

Map may be printed in color or black and white. Color maps are preferred. Use a medium point black or blue pen. Blue ink is easier to read on a black and white map; black ink is easier to read on a color map. Use the following legend to indicate information. **Include the locations of where the last fish was detected and the F/N break.**

-  New Stream
-  Stream Removal, incorrect stream location, or does not meet WAC 222-16-031. Mark clearly the point on the stream where the change occurs
-  Proposed Water Type. Use one (1) letter per stream segment (S, F, Np, or Ns)
-  Break between water types within the same segment (S, F, Np, Ns)
-  Start and end point of the entire surveyed reach
-  Natural fish passage barriers
-  Manmade barrier

Water Type Modification Form Alternate Map Standards

Alternate Map Standards must include the following: Scale: 1
inch to 1,000 feet

Color: Color or black and white. Must be legible. Black ink should be used on color maps; blue ink on black and white maps. Do not use pencil, light colors, or highlighters.

Features: Must contain the following layers (1-4 below can be found at <http://www.dnr.wa.gov/programs-and-services/forest-practices/providing-gis-data-forest-practices-activities-throughout>):

- (1) Current DNR hydro layers: water courses (WC) and water bodies (WBWS)
- (2) DNR geographic registration tic marks (minimum of 4 tic marks required)
- (3) Section, Townships, and Range lines and numbers
- (4) DNR transportation layers
- (5) Contours (maximum of 40ft interval) generated from 10 meter DEM
- (6) North arrow

Paper Size: 8 ½" x 11" (letter), 8 ½" x 14" (legal), or 11" x 17" (tabloid).

Paper Type: Matte finish. Do not use glossy, mylar, plastic, film, or tracing paper. Edges: Straight edges with square corners.

Margins: Minimum of ¼" on all sides.