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State of Washington

Final Cost Benefit and Least Burdensome Alternative Analysis

Chapter 173-201A WAC
Water Quality Standards for Surface Waters of the State of Washington

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Final Cost Benefit and Least Burdensome Alternative Analysis

Chapter 173-201A WAC
Water Quality Standards for Surface Waters of the State of Washington

by
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for

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Executive Summary

The Washington State Department of Ecology's (Ecology) amendments to Chapter 173-201A Washington Administrative Code (WAC) - Water Quality Standards for Surface Waters of the State of Washington provide a net benefit to social and business welfare.

The Administrative Procedures Act (Revised Code of Washington (RCW) 34.05.328(d)(e)) requires two types of analyses before adopting a significant legislative rule – a cost-benefit analysis and a least burdensome alternative analysis. This report provides the results of these analyses and shows the potential impacts associated with the adopted rule.

The water quality standards are the basis for protecting and regulating the quality of surface waters in Washington. Ecology made four types of changes to the rule:

- Reference corrections
- Correcting typographic errors
- New or deleted rule language.
- Formatting

The amendments impose no costs.

The amendments create benefits in the form of decreased regulatory burden and costs on businesses. They lessen the temperature requirements, fecal coliform limits, and/or dissolved oxygen limits in some areas. The decreased costs of meeting these less stringent requirements represent a benefit to these businesses in the form of foregone costs. The amount of cost savings would depend on the individual business and their costs of meeting the more stringent requirements previously in place.

Because the adopted rule represents an increase in economic benefits and no increase in economic costs, it represents a net benefit overall.

In the Least Burdensome Analysis, Ecology concluded there is sufficient evidence the adopted rule is the least burdensome version of the rule for those who are required to comply. Ecology considered two main alternatives:

1. No action; continued implementation of existing rules.
2. Minor corrections and clarifications to the existing rules.

Based on those alternatives, Ecology concluded the adopted rule is the least burdensome.

I. Conclusion

Ecology determines the benefits of the amendments are greater than the costs and represent the least burdensome alternative of the rule.

II. Purpose of Analysis

Ecology is amending Chapter 173-201A WAC. The Administrative Procedures Act (RCW 34.05.328(d)(e)) requires two types of analyses before adopting a significant legislative rule – a cost-benefit analysis and a least burdensome alternative analysis. This report provides the results of these analyses and shows the potential impacts associated with the adopted rule.

III. Background

Ecology amended Chapter 173-201A WAC - Water Quality Standards for Surface Waters of the State of Washington. The water quality standards are the basis for protecting and regulating the quality of surface waters in Washington. The standards:

- Implement portions of the federal Clean Water Act by specifying the designated and potential uses of waterbodies in Washington State.
- Set water quality criteria to protect those uses and acknowledge limitations.
- Contain policies to protect high quality waters (antidegradation) and in many cases specify how criteria are to be implemented, for example in permits.

The standards are established to sustain public health and public enjoyment of the waters and the propagation and protection of fish, shellfish, and wildlife. This three-part approach was designed to set limits on pollution in our lakes, rivers, and marine waters to protect beneficial uses such as aquatic life, swimming, and fishing.

The standards also support other water protection processes and guide Washington citizens, businesses and other government agencies to the goal of sustaining clean water for current and future use. The three-part approach covers:

- Designated uses, such as fishing, swimming, and aquatic life habitat.
- Numeric and narrative water quality criteria limits to protect the uses.
- Policies, such as antidegradation, to protect higher quality waters from being further degraded.

IV. Reason for this Rule

Ecology adopted the previous version of the Water Quality Standards (Chapter 173-201A WAC) in 2006. Ecology subsequently identified portions of the previous rule that contained typographic errors and narrative text or tables that needed more clarity. This 2011 version of the adopted rule amendment makes the rule more accurate and easier to understand by correcting and clarifying sections that previously caused confusion for some stakeholders.

Ecology made four types of changes to the rule:

- Reference corrections
- Correcting typographic errors
- Added or removed rule language
- Formatting

These changes are explained below.

Reference corrections

Several of the amendments to the rule correct missing references that were not included the last time Ecology amended the rule in 2006. For example, the definition section of the rule (173-201A-010(4)) describes the general process of designating waterbodies. This definition should have referenced the marine section of the rule but didn't.

Correcting typographic errors

Several of the amendments correct typographic errors. For example:

- In the 2006 version of Table 602, the word "junction" appeared in several places and was intended to describe the location of a waterbody intersecting another waterbody. In fact, the more appropriate definition of "junction" describes the intersection between a waterbody and human infrastructure, such as a road or bridge. The word "confluence" is more appropriately defined as the intersection between two or more waterbodies. To more accurately reflect locations where a waterbody intersects another waterbody and to avoid confusion with terminology, "junction" has been replaced with "confluence" where it is found in Table 602.
- In Table 602, several waterbody names were updated to reflect the naming conventions established in the Geographic Name Information Service (GNIS).
- Extra spaces were also deleted.

New or deleted rule language

In a few cases, Ecology added or removed some rule language for clarification purposes. Generally, this is a result of the transition from the 1997 Water Quality Standards format to the 2006 format.

- In the 1997 rule format, the criteria for fresh and marine water were in the same section of the rule and descriptions of how to apply criteria for the two water regimes were

intermingled. When the format was changed to separate the fresh and marine waters, the application methods for each water regime were not completely separated and remnants of the 1997 format remained in the prior rule. For example:

  - In the section of the rule describing marine water criteria (173-201A-210) there was reference to waters with specific flow levels (10 cfs to 100 cfs flow). These measures are used in stream systems and are not appropriate for marine waters.

- In Table 602, some waterbodies were identified with multiple descriptors, such as latitude and longitude, a common name, and a Township Section Range number. Several records had identifiers that did not correlate with one another, and were updated to more accurately reflect the location description.
- In Table 602, some waterbodies had conflicting criteria for a given portion of water. The records were updated to match the more stringent criteria already in place.
- In Table 602, some designated uses were not identified, or incorrectly identified, due to human error. The records were updated to reflect the appropriate designated use for that waterbody.
- Ecology Publication 06-10-038, *Waters Requiring Supplemental Spawning and Incubation Protection for Salmonid Species*, is now incorporated into the rule and include the following changes:
  - The word "proposed" was removed as the publication is now incorporated into the final rule.
  - The author's name was removed from the maps.
  - The legend for WRIA 26 contains a subtitle "Existing Char Criteria (remains 12°C)" that is incorrect. The subtitle was corrected to read "Open Water and Open Features".
  - The extra line in the legend for WRIA 38 reading "Proposed Spawning/Incubation Criteria" was removed.
  - The WRIA 14 Kennedy-Goldsborough map showed the incorrect length of spawning criteria on Johns Creek. The length was corrected to match the written description provided by the Environmental Protection Agency prior to the 2006 rule-making.

Formatting

Several tables have been reformatted or adjusted so they are more clear and accurate:

- The Freshwater Temperature table 173-201A-200(1)(c) was changed to remove seasonal temperature criteria for "char" and "salmon and trout spawning" from the aquatic life use categories that apply year round, because text already exists under the table to address the seasonal spawning temperatures. The seasonal temperature criteria only address temperature for a specific time frame. Including the seasonal temperature criteria in the aquatic life uses table for temperature was confusing to people because they assumed other convention criteria (dissolved oxygen; pH; total dissolved gas; and turbidity) also had seasonal spawning criteria, which was not a correct assumption.
- Table 230(1) had unnecessary blank cells and extra columns that were removed for clarity.
- The Toxic table (173-201A-240)(3) and all its footnotes
    - An error in the ammonia equation occurred when the Office of the Code Reviser, who formally prepares the state's rule language, converted the text into a different format.
    - During the text conversion process, several formulas lost their superscript value. To avoid future potential conversion problems the table and notes to the table are being submitted to the Code Reviser as a PDF.
- The images for Table 602 are entirely replaced with PFD images for higher quality resolution and readability.

IV. Scope of Analysis

From the discussion above, the vast majority of amendments result in neither costs nor benefits. However, some amendments to 173-201A-602 WAC were determined to have potential economic impact. This analysis will center on those changes.

WRIA	CHANGE
WRIA 18 Elwha-Dungeness - Matriotti Creek	From Extraordinary Primary Contact to Primary Contact
WRIA 23 Upper Chehalis – Hanaford Creek	Change in aquatic life use from Core Summer Habitat to Spawning/Rearing
WRIA 32 Walla Walla – Mill Creek from mouth to river mile 6.4	Change in aquatic use from Spawning/Rearing to Rearing/Migration only
WRIA 39 Upper Yakima – Taneum Creek from mouth to Wenatchee National Forest	Boundary change from Extraordinary Primary Contact to Primary Contact
Supplemental Spawning Maps (Ecology publication 06-10-038) at WRIA 14 Kennedy-Goldsborough – Johns Creek	Increase area of spawning criteria from mouth to approximately 1.0 miles inland to 3.0 miles inland could potentially have an economic impact.

V. Comparison of Current and Proposed Rule

This analysis focuses on five changes as discussed above. These include:

- WRIA 18 Elwha-Dungeness - Matriotti Creek
- WRIA 23 Upper Chehalis – Hanaford Creek
- WRIA 32 Walla Walla – Mill Creek from mouth to river mile 6.4
- WRIA 39 Upper Yakima – Taneum Creek from mouth to Wenatchee National Forest boundary
- Supplemental Spawning Map for WRIA 14 Kennedy-Goldsborough – Johns Creek

Each will be dealt with separately.

WRIA 18 Elwha-Dungeness – Matriotti Creek

Previously, this waterbody was classified as Extraordinary Primary Contact. This limited fecal coliform organisms to a maximum of 50 colonies per 100 mL. Ecology changed this classification to the less stringent Primary Contact use, which increased the amount of fecal coliform allowed to 100 colonies per 100 mL. This increase in the allowable level of fecal coliform organisms represents a lowering of the regulatory burden of the rule.

WRIA 23 Upper Chehalis – Hanaford Creek

Previously, the aquatic life use designation for this waterbody was Core Summer Habitat, which set a temperature limit of 16ºC (highest 7 day average maximum) and dissolved oxygen limit of 9.5 mg/L (lowest 1 day minimum). The change in aquatic use designation to Spawning/Rearing set less stringent limits of 17.5ºC (highest 7 day average maximum) and 8.0 mg/L (lowest 1 day minimum) respectively. This change represents a lowering of the regulatory burden of the rule.

WRIA 32 Walla Walla – Mill Creek

Previously, the aquatic life use designation for this waterbody was Spawning/Rearing, which set a dissolved oxygen limit of 8.0 mg/L (lowest 1 day minimum). The change in aquatic use designation to Rearing/Migration Only set a less stringent limit of 6.5 mg/L (lowest 1 day minimum). This change represents a lowering of the regulatory burden of the rule.

WRIA 39 Upper Yakima – Taneum Creek

Previously, this waterbody was classified as Extraordinary Primary Contact. This limited fecal coliform organisms to a maximum of 50 colonies per 100 mL. The change in classification to the less stringent Primary Contact use, increases the amount of fecal coliform allowed to 100 colonies per 100 mL. This increase in the allowable level of fecal coliform organisms represents a lowering of the regulatory burden of the rule.

Supplemental Spawning Map for WRIA 14 Kennedy-Goldsborough – Johns Creek

Previously, the aquatic life use designation for this waterbody was Core Summer Habitat, which set a baseline temperature limit of 16ºC (highest 7 day average maximum). However, this waterbody also had supplemental spawning criteria that are applied at 13ºC (highest 7 day average maximum) from September 1 – May 15th of each year, according to the supplemental spawning map for WRIA 14 (Ecology publication 06-10-038). The change increases the line work for John's Creek where the supplemental spawning criteria apply (the previous map did not accurately reflect the coverage of the supplemental spawning criteria according to what EPA intended before the 2006 rule-making). This correction causes the more stringent supplemental spawning temperature limit to apply to a larger portion of John's Creek, and represents a potential increase in the regulatory burden of the rule.

VI. Baseline for Analysis

The baseline for analysis of the rule amendments is the regulatory environment in the absence of any changes to the previously existing rule. Without the adoption of the amendments, the previously existing requirements would have remained in place.

VII. Analysis of Costs & Benefits

This analysis focuses on the five changes as discussed above. These include:

- WRIA 18 Elwha-Dungeness - Matriotti Creek;
- WRIA 23 Upper Chehalis – Hanaford Creek;
- WRIA 32 Walla Walla – Mill Creek from mouth to river mile 6.4;
- WRIA 39 Upper Yakima – Taneum Creek from mouth to Wenatchee National Forest boundary; and
- Supplemental Spawning Map for WRIA 14 Kennedy-Goldsborough – Johns Creek

Costs

The changes in WRIA 18, WRIA 23, WRIA 32, and WRIA 39 correct misclassifications and misdesignations for these waterbodies. Because the previous classifications and designations were more restrictive than necessary for each area, correcting them does not impact the spawning process. Therefore, no environmental costs were incurred.

The changes to the Supplemental Spawning Map for WRIA 14 at Johns Creek decreases the temperature limit of a roughly 2-mile stretch of the waterbody from 16ºC (highest 7 day average maximum) to 13ºC (highest 7 day average maximum). While this represents a strengthening of the regulatory requirement and has the potential to incur costs to comply with the more stringent limit, the area in question has no primary sources and has land-use designations as follows:

- Parks – 70 percent
- Undeveloped - 15 percent

- Residential – 10 percent
- Agriculture - 5 percent

Benefits

By lessening the temperature requirements, fecal coliform limits, and/or dissolved oxygen limits in WRIA 18, WRIA 23, WRIA 32, and WRIA 39, the adopted rule reduces the regulatory burden on impacted businesses. The decreased costs of meeting these less stringent requirements represent a benefit to these businesses in the form of foregone costs. The amount of cost savings depends on the individual business and their costs of meeting the more stringent requirements previously in place.

The increased temperature requirements on Johns Creek yield potential benefits to fish. The actual benefits depend on the current state of the waterbody, which is uncertain.

Net benefits

The adopted rule creates benefits and does not create costs. Therefore, the net benefits of the adopted rule are greater than zero.

VIII. Least Burdensome Analysis

RCW 34.05.328(1)(e) requires Ecology to "determine, after considering alternative versions of the rule and the analysis required under (b), (c), and (d) of this subsection, that the rule being adopted is the least burdensome alternative for those required to comply with it that will achieve the general goals and specific objectives stated under (a) of this subsection."

Determination

Based on research and analysis required by RCW 34.05.328(1)(e) the Department of Ecology determines:

> There is sufficient evidence the adopted rule is the least burdensome version of the rule for those who are required to comply, given the goals and objectives of the law, for Ecology to adopt the rule.

General goals and specific objectives of the authorizing statutes

The purpose of Chapter 173-201A WAC - Water Quality Standards for Surface Waters of the State of Washington, is to establish water quality standards for surface waters of the state of Washington consistent with public health and public enjoyment of the waters and the propagation and protection of fish, shellfish, and wildlife, pursuant to the provisions of chapter 90.48 RCW. Chapter 90.48.035 RCW provides clear and direct authority to Ecology to revise the water quality standards.

Alternative rule content considered

Ecology considered the following alternatives.

Alternative A: No action - Continued implementation of existing rules

No Action means the continued implementation of the previously existing rules.

For purposes of this analysis, continuing to use the previously existing Water Quality Standards rules is considered the "no action alternative". Portions of text or tables in the previously existing surface water quality standards contained errors that were introduced during the 2006 rule making. The "no action" alternative would not allow the opportunity to reduce confusion and make the rules more user-friendly to people who need to use and understand the standards. Further, the "no action "alternative does not provide for an opportunity to correct and clarify these errors before the next triennial review process, which will identify major issues or substantive changes that may require rule-making.

Alternative B: Minor corrections and clarifications to the existing rule.

The adopted changes correct and clarify errors in the existing rule that have caused confusion for some stakeholders.

Alternative B adopts changes that make the rule more accurate and easier to understand by correcting and clarifying sections that have caused confusion for some stakeholders. It also provides an opportunity to correct and clarify these errors before the next triennial review process, which will identify major issues or substantive changes that may require rule making. This rule making paves the way to the next triennial review.

Anticipated impacts from alternative B

- *Missing references in several sections of the rule*
  Several sections in the main body of the rule have references added that were erroneously not included in the previous rule making. This adds clarity to the existing rule.
- *Typographic errors*
  There is a number of spelling or punctuation corrections and typographic errors such as removal of an extraneous word or errors in mathematical equations introduced during the text conversion process. These changes improve readability of the existing rule.
- *Incorrect geographic locations in table 602*
  Changes to Table 602 include corrections in location information (lat/longs not matching an identified township/range/section, better naming conventions), and other errors identified when waterbody information in section 173-201A-130 (special classifications for freshwater) of the 1997 rule were converted to Table 602 in the 2003 rule. These changes provide clarity, and reduce or eliminate confusion caused from conflicting information.
- *Minor clarifications to language*
  Users of the previous rule identified several areas in the rule that were confusing. Clarification in these areas results in a better understanding of the rule intent. These include corrections to inaccurate references between fresh and marine water standards. These changes provide clarity, and lessen or eliminate confusion caused from conflicting information.

IX. Appendices

The table below lists the amendments to the Water Quality Standards rule (173-201A WAC). Included is the current language, amended rule language and a brief description of the amendment. The final column indicates whether the amendment is included in the economic analysis and an identifier of the reason if it is not. Following this table is a discussion of the reasons an amendment was not included in the analysis.

WAC Section Citation	Current Language	Amended Language	Brief Description	Analyzed
173-201A-010(1)(a)	All surface waters are protected by narrative criteria, designated uses, and an antidegradation policy.	All surface waters are protected by **numeric and** narrative criteria, designated uses, and an antidegradation policy.	Added words "numeric and" to clarify how uses are protected.	No (1)
173-201A-010(4)	WAC 173-201A-200 through 173-201A-260 describes the designated water uses and criteria for the state of Washington.	WAC 173-201A-200 through 173-201A-260 **and 173-201A-600 through 173-201A-612** describe the designated water uses and criteria for the state of Washington.	Clarify that the designated uses and criteria includes the subsections of the rule that describes the "default" categories of freshwater and marine designations.	No (1)
173-201A-020	**"Action value"** means a total phosphorus (TP) value established at the upper limit of the trophic states in each ecoregion. Exceedance of an action value indicates that a problem is suspected.	**"Action value"** means a total phosphorus (TP) value established at the upper limit of the trophic states in each ecoregion **(see Table 230(1))**. Exceedance of an action value indicates that a problem is suspected.	Clarify the rule to include the reference to the Tables for the Trophic states in each ecoregion.	No (1)
173-201A-020	A lake-specific study may be needed to confirm if a nutrient problem ~~exits~~.	A lake-specific study may be needed to confirm if a nutrient problem **exists**.	Spelling correction: was "**exits"**; changed to "**exists"**.	No (1)

173-201A-020	**"Enterococci"** refers to a subgroup of ~~the~~ fecal streptococci that includes *S. faecalis, S. faecium, S. gallinarum,* and *S. avium*. The enterococci are differentiated from other streptococci by their ability to grow in 6.5% sodium chloride, at pH 9.6, and at 10°C and 45°C.	**"Enterococci"** refers to a subgroup of fecal streptococci that includes *S. faecalis, S. faecium, S. gallinarum,* and *S. avium*. The enterococci are differentiated from other streptococci by their ability to grow in 6.5% sodium chloride, at pH 9.6, and at 10°C and 45°C.	Grammatical correction, removed the extra word "the"	No (1)
173-201A-020	**"Nonpoint source"** means pollution that enters any waters of the state from any dispersed land-based or water-based activities, including but not limited to atmospheric deposition~~,~~ surface water runoff from agricultural lands, urban areas, or forest lands~~,~~ subsurface or underground sources~~,~~ or discharges from boats or marine vessels not otherwise regulated under the National Pollutant Discharge Elimination System program.	"Nonpoint source" means pollution that enters any waters of the state from any dispersed land-based or water-based activities, including but not limited to atmospheric deposition**;** surface water runoff from agricultural lands, urban areas, or forest lands**;** subsurface or underground sources**;** or discharges from boats or marine vessels not otherwise regulated under the National Pollutant Discharge Elimination System program.	Typographic correction to change commas to semi-colons to separate sources of pollution.	No (1)

<table>
<tr>
<td>173-201A-200(1)(c)</td>
<td>
Table 200 (1)(c)
Aquatic Life Temperature Criteria in Fresh Water
<table>
<tr><th>Category</th><th>Highest 7-DADMax</th></tr>
<tr><td>~~Char Spawning~~</td><td>~~9°C (48.2°F)~~</td></tr>
<tr><td>Char Spawning and Rearing*</td><td>12°C (53.6°F)</td></tr>
<tr><td>~~Salmon and Trout Spawning~~</td><td>~~13°C (55.4°F)~~</td></tr>
<tr><td>Core Summer Salmonid Habitat*</td><td>16°C (60.8°F)</td></tr>
<tr><td>Salmonid Spawning, Rearing, and Migration*</td><td>17.5°C (63.5°F)</td></tr>
<tr><td>Salmonid Rearing and Migration Only</td><td>17.5°C (63.5°F)</td></tr>
<tr><td>Non-anadromous Interior Redband Trout</td><td>18°C (64.4°F)</td></tr>
<tr><td>Indigenous Warm Water Species</td><td>20°C (68°F)</td></tr>
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</table>
<u>*NOTE: some streams have a more stringent temperature criterion that is applied seasonally to further protect Salmonid Spawning and Egg Incubation. See WAC 173-201A -200(1)(c)(iv) below.</u>
</td>
<td>
Clarify the rule to eliminate Supplemental Spawning temperatures from this table, because they are not Aquatic Life Uses; they are seasonally applied criteria. The seasonal Supplemental Spawning criteria is described in WAC 173-201A-200 (1)(c)(iv).

Added asterisks to those designated uses that may have seasonal spawning criteria to match with text below on how seasonal temperatures are addressed.

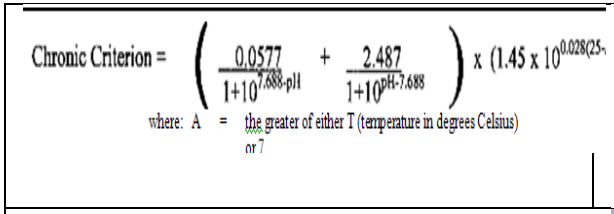
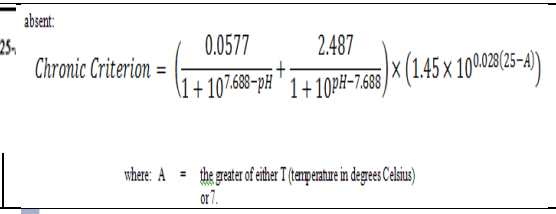
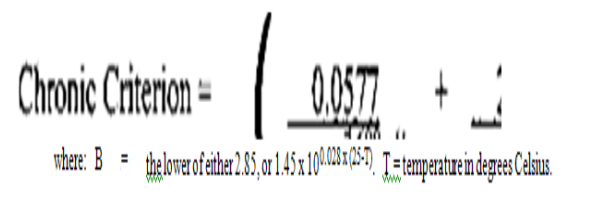
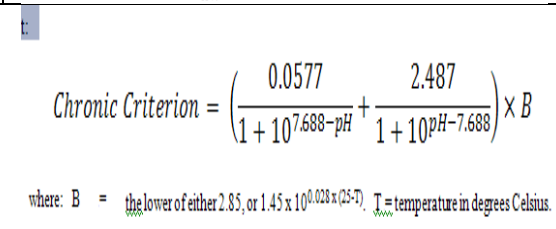
Added text under the table to clarify that there are supplemental seasonal temperature criteria for some streams and what section of the rule references those criteria.
</td>
<td>No (1)</td>
</tr>
</table>

173-201A-200(1)(c)(vii)	The department will incorporate the following guidelines on preventing acute lethality and barriers to migration of salmonids into determinations of compliance with the narrative requirements for use protection established in this chapter (e.g., WAC 173-201A-310(1), 173-201A-400(4), and 173-201A-410 (1)(c)). The following site-level considerations do not, however, override the temperature criteria established for waters in subsection (1)(c) of this section or WAC 173-201A-602:	The department will incorporate the following guidelines on preventing acute lethality and barriers to migration of salmonids into determinations of compliance with the narrative requirements for use protection established in this chapter (e.g., WAC 173-201A-310(1), 173-201A-400(4), and 173-201A-410 (1)(c)). The following site-level considerations do not, however, override the temperature criteria established for waters in subsection (1)(c) of this section or WAC **173-201A-600 through** 173-201A-602:	Clarify the rule to include the reference to WAC 173-201A-600	No (1)
173-201A-200(1)(e)(i)(D)	For projects working within or along lakes, ponds, wetlands, ~~estuaries, marine waters~~ or other nonflowing waters, the point of compliance shall be at a radius of one hundred fifty feet from the activity causing the turbidity exceedance.	For projects working within or along lakes, ponds, wetlands, or other nonflowing waters, the point of compliance shall be at a radius of one hundred fifty feet from the activity causing the turbidity exceedance.	Removing reference to estuarine and marine waters to clarify that this section pertains to freshwater only.	No (1)

173-201A-210(1)(e)(i)	The turbidity criteria established under WAC 173-201A-210 (1)(e) shall be modified, without specific written authorization from the department, to allow a temporary area of mixing during and immediately after necessary in-water construction activities that result in the disturbance of in-place sediments. This temporary area of mixing is subject to the constraints of WAC 173-201A-400 (4) and (6) and can occur only after the activity has received all other necessary local and state permits and approvals, and after the implementation of appropriate best management practices to avoid or minimize disturbance of in-place sediments and exceedances of the turbidity criteria. ~~A~~ temporary area of mixing shall be ~~as follows:~~ ~~(A) For waters up to 10 cfs flow at the time of construction, the point of compliance shall be one hundred feet downstream from the activity causing the turbidity exceedance.~~ ~~(B) For waters above 10 cfs up to 100 cfs flow at the time of construction, the point of compliance shall be two hundred feet downstream of the activity causing the turbidity exceedance.~~ ~~(C) For waters above 100 cfs flow at the time of construction, the point of compliance shall be three hundred feet downstream of the activity causing the turbidity exceedance.~~ ~~(D) For projects within or along lakes, ponds, wetlands, estuaries, marine waters or other non flowing waters, the point of compliance shall be at a radius of one hundred fifty feet from the activity causing the turbidity exceedance.~~	The turbidity criteria established under WAC 173-201A-210 (1)(e) shall be modified, without specific written authorization from the department, to allow a temporary area of mixing during and immediately after necessary in-water construction activities that result in the disturbance of in-place sediments. This temporary area of mixing is subject to the constraints of WAC 173-201A-400 (4) and (6) and can occur only after the activity has received all other necessary local and state permits and approvals, and after the implementation of appropriate best management practices to avoid or minimize disturbance of in-place sediments and exceedances of the turbidity criteria. **For estuaries or marine waters, the point of compliance for a** temporary area of mixing shall be **at a radius of one hundred fifty feet from the activity causing the turbidity exceedance.**	Inserted reference to estuary and marine point of compliance. Removed subsections A – D because they refer to “downstream activity” or “other non flowing waters” which is inappropriate for marine criteria.	No (1)

173-201A-230(1)	Table 230(1)	**No text change**, just a request to the OTS / Code Reviser's office to fix the format of the table to remove the extra blank cells.	The blank cells in Table 230(1) are unnecessary and were removed or merged. The online WAC shows extra columns and is confusing to review.	No (1)
173-201A-230(3)(a)	(3)(a) Conduct a lake-specific study to evaluate the characteristic uses of the lake. A lake-specific study may vary depending on the source or threat of impairment. Phytoplankton blooms, toxic phytoplankton, or excessive aquatic plants, are examples of various sources of impairment. The following are examples of quantitative measures that a study may describe: ~~Total~~ phosphorus, total nitrogen, chlorophyll-a, dissolved oxygen in the hypolimnion if thermally stratified, pH, hardness, or other measures of existing conditions and potential changes in any one of these parameters.	(3)(a) Conduct a lake-specific study to evaluate the characteristic uses of the lake. A lake-specific study may vary depending on the source or threat of impairment. Phytoplankton blooms, toxic phytoplankton, or excessive aquatic plants, are examples of various sources of impairment. The following are examples of quantitative measures that a study may describe: **total** phosphorus, total nitrogen, chlorophyll-a, dissolved oxygen in the hypolimnion if thermally stratified, pH, hardness, or other measures of existing conditions and potential changes in any one of these parameters.	Correct typographic error: change the case: "Total phosphorus" to "total phosphorous."	No (1)
173-201A-240(2)	The department shall employ or require chemical testing, acute and chronic toxicity testing, and biological assessments, as appropriate, to evaluate compliance with subsection (1) of this section and to ensure that aquatic communities and the existing and ~~characteristic beneficial~~ uses of waters are being fully protected.	The department shall employ or require chemical testing, acute and chronic toxicity testing, and biological assessments, as appropriate, to evaluate compliance with subsection (1) of this section and to ensure that aquatic communities and the existing and **designated** uses of waters are being fully protected.	Changed the term "characteristic beneficial uses" to "designated uses"	No (1)

173-201A-240(3)	Table 240(3): Ammonia (un-ionized NH3) hh Polychlorinated Biphenyls (PCBs)	Ammonia (un-ionized NH3) hh Polychlorinated Biphenyls (PCBs)	The Ammonia (un-ionized NH3) hh and Polychlorinated Biphenyls (PCBs) criteria were incorrectly split between two rows. The rows were combined, but no values changed. Formatting comments to OTS to remove invisible lines (columns) showing on the website before each "acute" column.	No (1)
173-201A-240(3)(f)	f. Shall not exceed the numerical value in total ammonia nitrogen (mg N/L) given by: For salmonids present: $\frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}}$ For salmonids absent: $\frac{0.411}{1+10^{7.204-pH}} + \frac{58.4}{1+10^{pH-7.204}}$	Shall not exceed the numerical value in total ammonia nitrogen (mg N/L) given by: *For salmonids present:* $\frac{0.275}{1+10^{7.204-pH}} + \frac{39.0}{1+10^{pH-7.204}}$ *For salmonids absent:* $\frac{0.411}{1+10^{7.204-pH}} + \frac{58.4}{1+10^{pH-7.204}}$	The existing formulas appeared as a table format formula. The table was replaced by a Word formula, increasing readability. **Formula did not change**.	No (1)
173-201A-240(3)(g)	RATIO = (20.25 x 10(7.7-pH)) ÷ (1 . 10(7.4-pH)); 6.5 ≤ pH ≤ 7.7	RATIO = (20.25 x 10(7.7-pH)) ÷ (1 .+ 10(7.4-pH)); 6.5 ≤ pH ≤ 7.7	Correct formatting error: the formula was inserted in the row below the ratio. Formula moved up to the correct row, but **text unchanged**.	No (1)

173-201A-240(3)(g)		absent: 	Replaced existing image of chronic criterion with clearer text. **Formula did not change**.	No (1)
			Replaced existing image of chronic criterion with clearer text. **Formula did not change**.	No (1)
173-201A-240(3)(i)	≤ (0.944)(e~~(1.128[ln(hardness)]-3.828)~~) at hardness = 100.	≤ (0.944)(e(1.128[ln(hardness)]-3.828)) at hardness = 100. Conversion factor (CF) of 0.944 is hardness dependent.	Correct typographic error. (e(1.128[ln(hardness)]-3.828)) should be a superscript .	No (1)
173-201A-240(3)(j)	j. ≤ (0.909)(e~~(0.7852[ln(hardness)]-3.490)~~) at hardness = 100. Conversion~~s~~ factor (CF) of 0.909 is hardness dependent. CF is calculated for other hardnesses as follows: CF = 1.101672 - [(ln hardness)(0.041838)].	j. ≤ (0.909)(e(0.7852[ln(hardness)]-3.490)) at hardness = 100. Conversion factor (CF) of 0.909 is hardness dependent. CF is calculated for other hardnesses as follows: CF = 1.101672 - [(ln hardness)(0.041838)].	(1.128[ln(hardness)]-3.828) edited format to be superscript . Changed Conversions factor to Conversion factor.	No (1)
173-201A-240(3)(m)	≤ (0.316)e(0.8190[ln(hardness)] .+ 3.688)	≤ (0.316)(e(0.8190[ln(hardness)] .+ 3.688))	Added parentheses around e(0.8190[ln(hardness)] .+ 3.688) to clarify mathematical equation.	No (1)
173-201A-240(3)(n)	≤ (0.860) e(0.8190[ln(hardness)] .+ 1.561)	≤ (0.860)(e(0.8190[ln(hardness)] .+ 1.561))	Added parentheses around e(0.8190[ln(hardness)] .+ 1.561) to clarify mathematical equation.	No (1)

173-201A-240(3)(ee)	ee. The criteria for cyanide is based on the weak acid dissociable method in the ~~17th~~ Ed. Standard Methods for the Examination of Water and Wastewater, 4500-CN I, and as revised (see footnote dd, above).	The criteria for cyanide is based on the weak acid dissociable method in the **19th** Ed. Standard Methods for the Examination of Water and Wastewater, 4500-CN I, and as revised (see footnote dd, above).	Changed the edition number from 17th to 19th to correct typo. Edition 19 is the version used to establish the cyanide criteria. The 1997 version of the Standards used a method described in edition 17. The 2006 version of the Standards used a different method to calculate cyanide which is only found in the 19th Edition. The reference was not corrected in the 2006 version of the Standards. This change is to address that oversight.	No (1)
173-201A-240(3)(hh)	The listed fresh water criteria are based on un-ionized or total ammonia concentrations, while those for marine water are based on ~~total~~ ammonia concentrations.	The listed fresh water criteria are based on un-ionized or total ammonia concentrations, while those for marine water are based on **un-ionized** ammonia concentrations.	Change word "total" to "un-ionized". Table 240 refers to Ammonia (un-ionized NH3). This correction clarifies the rule by maintaining consistency between the Table and the Notes to the table.	No (1)

173-201A-260	(1)(b) When a water body does not meet its assigned criteria due to human structural changes that cannot be effectively remedied (as determined consistent with the federal regulations at 40 CFR 131.10), then alternative estimates of the attainable water quality conditions, plus any further allowances for human effects specified in this chapter for when natural conditions exceed the criteria, may be used to establish an alternative criteria for the water body (see WAC 173-201A-440).	(1)(b) When a water body does not meet its assigned criteria due to human structural changes that cannot be effectively remedied (as determined consistent with the federal regulations at 40 CFR 131.10), then alternative estimates of the attainable water quality conditions, plus any further allowances for human effects specified in this chapter for when natural conditions exceed the criteria, may be used to establish an alternative criteria for the water body (see WAC **173-201A-430 and** 173-201A-440).	Clarified by adding the reference to another section of the rule: WAC 173-201A-430	No (1)
	(3) **Procedures for applying water quality criteria.** In applying the appropriate water quality criteria for a water, the department will use the following procedure:	(3) **Procedures for applying water quality criteria.** In applying the appropriate water quality criteria for a water **body**, the department will use the following procedure:	Clarify rule by changing water to water body so there is consistency throughout the document.	No (1)
173-201A-420	1) The criteria established in WAC 173-201A-200 through 173-201A-260 may be modified for individual facilities, or stretches of waters, through the use of a variance.	1) The criteria established in WAC 173-201A-200 through 173-201A-260 **and WAC 173-201A-600 through 173-201A-612** may be modified for individual facilities, or stretches of waters, through the use of a variance.	Added references to the sections in rule that describe uses for “default” freshwater and marine waters. Omitting this reference was an oversight when the 2003 rule revision occurred.	No (1)

173-201A-600	(1)(a)(iv) All fresh surface waters that are tributaries to extraordinary ~~quality~~ marine waters (WAC 173-201A-610 through 173-201A-612).	iv) All fresh surface waters that are tributaries to extraordinary **aquatic life** marine waters (WAC 173-201A-610 through 173-201A-612).	Clarify that freshwater streams contributing to extraordinary aquatic life marine waters are designated as Core Summer Salmonid Habitat. In the current language the term "extraordinary marine waters" is used. The words "aquatic life" was inadvertently left out. This corrects the oversight.	No (1)
	Blank	**(3) Aquatic life uses are designated based on the presence of, or the intent to provide protection for the key uses identified in Table 600. It is required that all indigenous fish and nonfish aquatic species be protected in waters of the state in addition to the key species described below.**	NEW TEXT: clarifies that all species are protected not solely key species.	No (1)
173-201A-600(2)	The water quality standards for surface waters for the state of Washington do not apply to segments of waters that are on Indian reservations.	The water quality standards for surface waters for the state of Washington do not apply to segments of waters that are on Indian reservations**, except for surface waters overlying fee lands on the Puyallup reservation consistent with the Puyallup Tribe Land Claims Settlement of 1989**.	The current language is incorrect. Text added to clarify that there are circumstances where the state has jurisdiction over regulation of water quality on tribal reservation lands, as approved by the United States Environmental Protection Agency (USEPA).	No (3)

173-201A-602	New PDF for entire section	New PDF for entire section	All pages were individually PDFd for insertion into the rule.	No (1)
173-201A-602 WRIA 1 - Nooksack	Chilliwack River and Little Chilliwack River: All waters (including tributaries) above the ~~junction~~.	Chilliwack River and Little Chilliwack River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence." The word confluence is used to describe the intersection between two or more water bodies. The word "junction" in used to describe the intersection between a waterbody and human infrastructure, such as a road or bridge.	No (1)
173-201A-602 WRIA 1 - Nooksack	Johnson Creek, unnamed tributary just north of Pangborn Road ~~watershed~~	Johnson Creek, unnamed tributary just north of Pangborn Road.	Deleted extraneous word "watershed"	No (1)
173-201A-602 WRIA 1 - Nooksack	Nooksack River and tributaries [except where otherwise designated Char] from and including Anderson Creek (latitude 48.8675 longitude -122.3210) to ~~junction~~ with South Fork.	Nooksack River and tributaries [except where otherwise designated Char] from and including Anderson Creek (latitude 48.8675 longitude -122.3210) to **confluence** with South Fork.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 1 - Nooksack	Nooksack River, North Fork, and all tributaries, upstream to the ~~junction~~ with Maple creek (RM 49.7) .	Nooksack River, North Fork, and all tributaries, upstream to the **confluence** with Maple creek (RM 49.7).	The word "junction" was removed and replaced by "confluence." Extra space removed between (RM 49.7) and the period.	No (1)
173-201A-602 WRIA 1 - Nooksack	Nooksack River, South Fork, and all tributaries above the ~~junction at~~ Fobes Creek.	Nooksack River, South Fork, and all tributaries above the **confluence with** Fobes Creek.	The phrase "junction at" was removed and replaced by "confluence with"	No (1)

173-201A-602 WRIA 1 - Nooksack	Saar Creek from latitude 48.9~~490~~ longitude -122.2~~252~~ to headwaters	Saar Creek from latitude 48.9**8177** longitude -122.2**3846** to headwaters	Corrected Latitude/Longitude so geographic coordinate coincides with stream.	No (1)
173-201A-602 WRIA 3 Lower Skagit-Samish	Fisher Creek and tributaries.	Fisher **and Carpenter Creeks** and tributaries.	Clarifying that Carpenter Creek is a tributary to Fisher Creek; the change matches the USEPA disapproval materials.	No (2)
173-201A-602 WRIA 3 Lower Skagit-Samish	Nookachamps Creek, East Fork, and unnamed creek at latitude 48.4103 longitude -122.1657: All waters (including tributaries) above the ~~junction~~.	Nookachamps Creek, East Fork, and unnamed creek at latitude 48.4103 longitude -122.1657: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 3 Lower Skagit-Samish	Samish River and tributaries above latitude 48.5472 longitude -122.3378 (~~Sect 18 T36 R4E~~).	Samish River and tributaries above latitude 48.5472 longitude -122.3378 (**Sect 05 T35N R04E**).	Corrected Township/Range/ Section. The Latitude/ Longitude was coincident with the river but not in the original Township/Range/Section	No (1)
173-201A-602 WRIA 3 Lower Skagit-Samish	Walker Creek and unnamed creek at latitude 48.3813 longitude -122.1639: All waters (including tributaries) above the ~~junction~~.	Walker Creek and unnamed creek at latitude 48.3813 longitude -122.1639: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 4 Upper Skagit	Bear Creek and the unnamed outlet creek of Blue Lake: All waters (including tributaries) above the ~~junction~~.	Bear Creek and the unnamed outlet creek of Blue Lake **(Latitude 48.62036; Longitude -121.74882)**: All waters (including tributaries) above the **confluence**.	Added Latitude/Longitude to better clarify location; matches the USEPA disapproval materials. The word "junction" was removed and replaced by "confluence."	No (1, 2)

173-201A-602 WRIA 4 Upper Skagit	Cascade River and Boulder Creek: All waters (including tributaries) above the ~~junction~~.	Cascade River and Boulder Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 4 Upper Skagit	Diobsud Creek and the unnamed tributary at longitude -121.4414 and latitude 48.5850: All waters (including tributaries) above the ~~junction~~.	Diobsud Creek and the unnamed tributary at longitude -121.4414 and latitude 48.5850: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 4 Upper Skagit	Sauk River and Dutch Creek: All waters (including tributaries) above the ~~junction~~.	Sauk River and Dutch Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 4 Upper Skagit	~~Sulfur~~ Creek and all tributaries.	**Sulphur** Creek and all tributaries.	Corrected misspelling of creek name.	No (1)
173-201A-602 WRIA 4 Upper Skagit	Thunder Creek and all tributaries.	Thunder Creek **(upstream of Lake Shannon at Latitude 48.59867, Longitude -121.71359)** and all tributaries.	The USEPA disapproval materials showed two Thunder Creeks in WRIA 4; both listed as Char Spawning and Rearing. This one was included in Table 602. A geographic reference shows which Thunder Creek the rule references.	No (2)

173-201A-602 WRIA 4 Upper Skagit	All new text.	**Thunder Creek (upstream of Diablo Lake at Latitude 48.69469, Longitude -121.09830) and all tributaries.** The following uses are designated for this waterbody: • Char Spawning/Rearing • Ex Primary Cont • Domestic Water • Industrial Water • Agricultural Water • Stock Water • Wildlife Habitat • Harvesting • Boating • Aesthetics	See above for Thunder Creek. This Thunder Creek was not included in Table 602 by mistake. This corrects that error to match the USEPA disapproval materials.	No (2)
173-201A-602 WRIA 5 Stillaguamish	Brooks Creek and the unnamed tributary at latitude 48.2967 longitude -121.9031: All waters (including tributaries) above the ~~junction~~.	Brooks Creek and the unnamed tributary at latitude 48.2967 longitude -121.9031: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Canyon Creek's unnamed tributaries at latitude 48.1~~459~~ longitude -121.96~~48~~.	Canyon Creek's unnamed tributaries at latitude 48.1**522** longitude -121.96**77**.	Corrected Latitude/Longitude to coincide with confluence as specified in USEPA disapproval materials.	No (2)

173-201A-602 WRIA 5 Stillaguamish	Crane Creek and unnamed tributary at latitude 48.3~~330~~ longitude -12~~1.1000~~: All waters (including tributaries) above the ~~junction~~.	Crane Creek and unnamed tributary at latitude 48.3**295** longitude -12**2.1005**: All waters (including tributaries) above the **confluence**.	Corrected Latitude/Longitude to coincide with confluence as specified in USEPA disapproval materials. The word "junction" was removed and replaced by "confluence."	No (1,2)
173-201A-602 WRIA 5 Stillaguamish	Crane ~~Creek 's~~ unnamed tributaries at latitude 48.3 longitude -12~~1.1030~~: All waters (including tributaries) above the ~~junction~~.	Crane **Creek's** unnamed tributaries at latitude 48.3**323** longitude -12**2.1059**: All waters (including tributaries) above the **confluence**.	Removed extra space before apostrophe in "Creek's"; Clarify that Crane Creek is included in designation; and corrected Latitude/Longitude to match USEPA disapproval materials. The word "junction" was removed and replaced by "confluence."	No (1,2)
173-201A-602 WRIA 5 Stillaguamish	Cub Creek and the unnamed tributary at latitude 48.1655 longitude -121.9376: All waters (including tributaries) above the ~~junction~~.	Cub Creek and the unnamed tributary at latitude 48.1655 longitude -121.9376: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Deer Creek (on N.F. Stillaguamish) and the unnamed tributary at longitude -121.9565 and latitude 48.3195: All waters (including tributaries) above the ~~junction~~.	Deer Creek (on N.F. Stillaguamish) and the unnamed tributary at longitude -121.9565 and latitude 48.3195: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Dicks Creek and unnamed outlet of Myrtle Lake at latitude 48.3187 longitude -121.8129: All waters (including tributaries) above the ~~junction~~.	Dicks Creek and unnamed outlet of Myrtle Lake at latitude 48.3187 longitude -121.8129: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 5 Stillaguamish	Jim Creek and Little Jim Creek: All waters (including tributaries) above the ~~junction~~.	Jim Creek and Little Jim Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Jorgenson Slough (Church Creek) from latitude 48.23~~47~~ longitude -121.3~~530~~ between West Pass and Hat Slough: All waters (including tributaries) above the ~~junction~~.	Jorgenson Slough (Church Creek) from latitude 48.23**409** longitude -121.3**2346** between West Pass and Hat Slough: All waters (including tributaries) above the **confluence**.	Corrected Latitude/Longitude to clarify which stream segments had designation and to match USEPA disapproval materials. The word "junction" was removed and replaced by "confluence."	No (1,2)
173-201A-602 WRIA 5 Stillaguamish	Pilchuck Creek and Bear Creek: All waters (including tributaries) above the ~~junction~~.	Pilchuck Creek and Bear Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Pilchuck Creek's unnamed tributaries at latitude 48.3104 longitude -122.1305: All waters (including tributaries) above the ~~junction~~.	Pilchuck Creek's unnamed tributaries at latitude 48.3104 longitude -122.1305: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Unnamed tributary to Portage Creek at latitude 48.1837 longitude -122.2314: All waters (including tributaries) above the ~~junction~~.	Unnamed tributary to Portage Creek at latitude 48.1837 longitude -122.2314: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Stillaguamish River from mouth to ~~junction~~ of north and south forks (river mile 17.8).	Stillaguamish River from mouth to **confluence** of north and south forks (river mile 17.8).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Stillaguamish River, North Fork, and Boulder River: All waters (including tributaries) from the ~~junction~~ up to Squire Creek, downstream of the Mt. Baker Snoqualmie National Forest.	Stillaguamish River, North Fork, and Boulder River: All waters (including tributaries) from the **confluence** up to Squire Creek, downstream of the Mt. Baker Snoqualmie National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 5 Stillaguamish	Stillaguamish River, North Fork, and Boulder River: All waters (including tributaries) from the ~~junction~~ up to Squire Creek that are in or above the Mt. Baker Snoqualmie National Forest.	Stillaguamish River, North Fork, and Boulder River: All waters (including tributaries) from the **confluence** up to Squire Creek that are in or above the Mt. Baker Snoqualmie National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 5 Stillaguamish	Stillaguamish River, South Fork, and the unnamed tributary at latitude 48.0921 longitude -121.8797 (near Cranberry Creek): All waters (including tributaries) above the ~~junction~~.	Stillaguamish River, South Fork, and the unnamed tributary at latitude 48.0921 longitude -121.8797 (near Cranberry Creek): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Miller River, East Fork, and West Fork Miller River: All waters (including tributaries) above the ~~junction~~.	Miller River, East Fork, and West Fork Miller River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	North Fork Creek and unnamed creek at latitude 47.7409 longitude -121.8231 (Sect. 18 T26N R8E): All waters (including tributaries) above the ~~junction~~.	North Fork Creek and unnamed creek at latitude 47.7409 longitude -121.8231 (Sect. 18 T26N R8E): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Pilchuck River and Boulder Creek: All waters (including tributaries) above the ~~junction~~.	Pilchuck River and Boulder Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Skykomish River and May Creek (above Gold Bar at river mile 41.2): All waters (including tributaries) above ~~junction~~ (Except where designated Char).	Skykomish River and May Creek (above Gold Bar at river mile 41.2): All waters (including tributaries) above **confluence** (Except where designated Char).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Skykomish River, South Fork, and Beckler River: All waters (including tributaries) above the ~~junction~~.	Skykomish River, South Fork, and Beckler River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 7 Snohomish	Snohomish River from mouth ~~and east of longitude 122°13'40"W upstream~~ to latitude ~~47°56'30"N~~ (southern tip of Ebey Island at river mile 8.1).[1]	Snohomish River from mouth to latitude **47.942 longitude -122.1719** (southern tip of Ebey Island at river mile 8.1).[1]	Improve location reference; changed Latitude/longitude to decimal degree – same location but using an easier to identify coordinate system.	No (1)
173-201A-602 WRIA 7 Snohomish	Snohomish River from latitude ~~47°56'30"N~~ (southern tip of Ebey Island at river mile 8.1) to below Pilchuck Creek at latitude 47.9045 longitude -122.0917.	Snohomish River from latitude **47.942, longitude -122.1719** (southern tip of Ebey Island at river mile 8.1) to below Pilchuck Creek at latitude 47.9045 longitude -122.0917.	Coordinates edited to be in the same format (from degrees/minutes/seconds to decimal degrees)	No (1)
173-201A-602 WRIA 7 Snohomish	Snoqualmie River from mouth to ~~junction~~ with Harris Creek (latitude 47.7686 longitude -121.9605; Sect.5 T25N R6E)	Snoqualmie River from mouth to **confluence** with Harris Creek (latitude 47.7686 longitude -121.9605; Sect.5 T25N R6E)	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Snoqualmie River, North Fork, and Sunday Creek: All waters (including tributaries) above the ~~junction~~.	Snoqualmie River, North Fork, and Sunday Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Snoqualmie River, Middle Fork, and Dingford Creek: All waters (including tributaries) above the ~~junction~~.	Snoqualmie River, Middle Fork, and Dingford Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 7 Snohomish	Tolt River, North Fork, and unnamed creek at latitude 47.7183 longitude -121.7775: All waters (including tributaries) above the ~~junction~~.	Tolt River, North Fork, and unnamed creek at latitude 47.7183 longitude -121.7775: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 7 Snohomish	Tolt River, South Fork, and tributaries from mouth to ~~west boundary of Sec. 31 T26N R9E (river mile 6.9).~~	Tolt River, South Fork, and tributaries from mouth to **unnamed creek at latitude 47.6925 longitude -121.7392; river mile 5.4.**	Location description did not match the USEPA disapproval materials; corrected river mile and Section Township and Range and added Latitude/Longitude to further clarify end of designation.	No (2)
173-201A-602 WRIA 7 Snohomish	~~Tolt River, South Fork, and tributaries from west boundary of Sec. 31 T26N R9E (river mile 6.9) to headwaters, except for the waters specifically listed in this table: South Fork Tolt River and South Fork Tolt River's unnamed tributaries.3~~	Deleted	The next record in Table 602 (see entry below) covers same geographic area and has more stringent criteria; so it supersedes this designation.	No (1)
173-201A-602 WRIA 7 Snohomish	Tolt River, South Fork, and unnamed creek at latitude 47.6925 longitude -121.7392: All waters (including tributaries) above the ~~junction~~.[3]	Tolt River, South Fork, and unnamed creek at latitude 47.6925 longitude -121.7392 **(river mile 5.4)**: All waters (including tributaries) above the **confluence**.[3]	This record adjusted to cover use designations of previous two records.	No (1)
173-201A-602 Notes for WRIA 7	3. No waste discharge will be permitted for the South Fork Tolt River and tributaries from ~~west boundary of Sec. 31 T26 R9E (river mile 6.9)~~ to headwaters.	3. No waste discharge will be permitted for the South Fork Tolt River and tributaries from **latitude 47.6925 longitude -121.7392 (river mile 5.4)** to headwaters.	Footnote was updated to reflect change in text to associated records.	No (1)
173-201A-602 WRIA 8 Cedar-Sammamish	Holder Creek and the unnamed tributary at latitude 47.4581 longitude -121.9496: All waters (including tributaries) above the ~~junction~~.	Holder Creek and the unnamed tributary at latitude 47.4581 longitude -121.9496: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 Notes for WRIA 8:	4. This waterbody is to be treated as a Lake~~s~~ for purposes of applying this chapter.	4. This waterbody is to be treated as a Lake for purposes of applying this chapter.	Corrected grammatical error and removed the "s" at the end of "lakes"	No (1)

173-201A-602 WRIA 9 Duwamish-Green	Green River from and including the Black River (river mile 11.0 and point where Duwamish River continues as the Green River) to latitude 47.3699 longitude -122.246 (Sect. 25 T22N R4E) above ~~junction~~ with unnamed tributary.	Green River from and including the Black River (river mile 11.0 and point where Duwamish River continues as the Green River) to latitude 47.3699 longitude -122.246 (Sect. 25 T22N R4E) above **confluence** with unnamed tributary.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 9 Duwamish-Green	Green ~~r~~iver from above ~~junction~~ with ~~unnamed tributary~~ at latitude 47.3699 longitude -122.2461 (Sect. 25 T22N R4E) (east of the West Valley highway) to west boundary of Flaming Geyser State Park (including all tributaries)	Green **R**iver from above **confluence** with **Mill Creek** at latitude 47.3699 longitude -122.2461 (Sect. 25 T22N R4E) (east of the West Valley highway) to west boundary of Flaming Geyser State Park (including all tributaries)	Changed "Green river" to "Green River." The word "junction" was removed and replaced by "confluence." The unnamed tributary is commonly known as Mill Creek. Edited to reflect common usage.	No (1)
173-201A-602 WRIA 9 Duwamish-Green	Green River and Sunday Creek: All waters (including tributaries) above the ~~junction~~. [1]	Green River and Sunday Creek: All waters (including tributaries) above the **confluence**. [1]	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 9 Duwamish-Green	Smay Creek and West Fork Smay Creek: All waters (including tributaries) above the ~~junction~~. [1]	Smay Creek and West Fork Smay Creek: All waters (including tributaries) above the **confluence**. [1]	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	Carbon River and tributaries above latitude 46.9998 longitude -121.~~0~~794, downstream of the Snoqualmie National Forest or Mt. Rainier National Park.	Carbon River and tributaries above latitude 46.9998 longitude -121.**9**794, downstream of the Snoqualmie National Forest or Mt. Rainier National Park.	Corrected Latitude/Longitude to a location on stream to match 1997 standards.	No (2)

173-201A-602 WRIA 10 Puyallup-White	Clarks Creek ~~upstream of tribal reservation~~.	Clarks Creek **and tributaries**.	Removed language "upstream of tribal reservation" to comport with USEPA authorization of state jurisdiction over fee lands on the Puyallup tribal reservation.	No (3)
173-201A-602 WRIA 10 Puyallup-White	Clear Creek and tributaries ~~upstream of tribal reservation~~.	Clear Creek and tributaries.	Removed language "upstream of tribal reservation" to comport with USEPA authorization of state jurisdiction over fee lands on the Puyallup tribal reservation.	No (3)
173-201A-602 WRIA 10 Puyallup-White	Clearwater River and Milky Creek: All waters (including tributaries) above the ~~junction~~.	Clearwater River and Milky Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	Greenwater River from ~~junction~~ with White River to headwaters (including all tributaries).	Greenwater River from **confluence** with White River to headwaters (including all tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	Puyallup River from river mile 1.0 to ~~junction~~ with White River.	Puyallup River from river mile 1.0 to **confluence** with White River.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	Puyallup River and tributaries from ~~junction~~ with White River to Mowich River (Except where designated char).	Puyallup River and tributaries from **confluence** with White River to Mowich River (Except where designated char).	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 10 Puyallup-White	Puyallup River at and including Mowich River: All waters (including tributaries) above the ~~junction~~.	Puyallup River at and including Mowich River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	Swan Creek~~ upstream of tribal reservation~~.	Swan Creek.	Removed language "upstream of tribal reservation" to comport with USEPA authorization of state jurisdiction over fee lands on the Puyallup tribal reservation.	No (3)
173-201A-602 WRIA 10 Puyallup-White	Voight Creek and Bear Creek: All waters (including tributaries) above the ~~junction~~, that are downstream of the Snoqualmie National Forest or Mt. Rainier National Park.	Voight Creek and Bear Creek: All waters (including tributaries) above the **confluence**, that are downstream of the Snoqualmie National Forest or Mt. Rainier National Park.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 10 Puyallup-White	White River from mouth to latitude 47.2438 longitude -122.2422 (Sect. 1 T20N R4E). Domestic Water: *not checked* Industrial Water: *not checked* Agricultural Water: *not checked* Stock Water: *not checked* Wildlife Habitat: *not checked* Harvesting: *not checked* Boating: *not checked* Aesthetics: *not checked*	White River from mouth to latitude 47.2438 longitude -122.2422 (Sect. 1 T20N R4E). Domestic Water: checked Industrial Water: checked Agricultural Water: checked Stock Water: checked Wildlife Habitat: checked Harvesting: checked Boating: checked Aesthetics: checked	Added checks for Water Supply and Misc uses, the check boxes were erroneously blank; all steams have identical Water Supply and Misc uses.	Yes
173-201A-602 WRIA 10 Puyallup-White	White River from and including West Fork White River: All waters (including tributaries) above the ~~junction~~.	White River from and including West Fork White River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 10 Puyallup-White	Wilkeson Creek and Gale Creek: All waters (including tributaries) above the ~~junction, except those waters in or above the Snoqualmie National Forest.~~	Wilkeson Creek and Gale Creek: All waters (including tributaries) above the **confluence.**	The word "junction" was removed and replaced by "confluence." All waters contributing to Wilkeson and Gale Creeks are outside the Snoqualmie National Forest. Deleted text "in or above ……"	No (1)
173-201A-602 WRIA 10 Puyallup-White	~~Wilkeson Creek and Gale Creek: All waters (including tributaries) above the junction that are in or above the Snoqualmie National Forest.~~	Deleted (along with all checked uses)	All waters contributing to Wilkeson and Gale Creeks are outside the Snoqualmie National Forest. This record is not needed.	No (1)
173-201A-602 WRIA 11 Nisqually	Mashel River and Little Mashel River: All waters (including tributaries) above the ~~junction~~.	Mashel River and Little Mashel River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 11 Nisqually	Murray Creek and tributaries Recreation Uses: Primary Cont (**not checked**)	Recreation Uses: Primary Cont (**checked**)	173-201A-600(1) All surface waters of the state not named in Table 602 are to be protected for the designated use of primary contact recreation. The recreational use does not change by designating the primary contact use in table 602 for Murray Creek.	Yes
173-201A-602 WRIA 11 Nisqually	Nisqually River and Tahoma Creek: All waters (including tributaries) above the ~~junction~~.	Nisqually River and Tahoma Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 12 Chambers-Clover	~~Clover Creek from outlet of Lake Spanaway to inlet of Lake Steilacoom.~~	**Clover Creek from inlet to Lake Steilacoom, upstream and including Spanaway Creek to outlet of Spanaway Lake**	Narrative description did not represent on ground conditions. Adjusted language to accurately describe streams and their connectivity. This does not reflect a change of use.	No (1)
173-201A-602 WRIA 13 Deschutes and WRIA 14 Kennedy-Goldsborough	McLane Creek and tributaries Core Summer Habitat: checked Primary Cont: checked Domestic Water: checked Industrial Water: checked Agricultural Water: checked Stock Water: checked Wildlife Habitat: checked Harvesting: checked Boating: checked Aesthetics: checked	McLane Creek and tributaries Core Summer Habitat: checked Primary Cont: checked Domestic Water: checked Industrial Water: checked Agricultural Water: checked Stock Water: checked Wildlife Habitat: checked Harvesting: checked Boating: checked Aesthetics: checked	Added to WRIA 13, removed from WRIA 14. McLane Creek is in WRIA 13, and was placed in the wrong WRIA when initially added to Table 602.	No (1)
173-201A-602 WRIA 14 Kennedy-Goldsborough	Hiawata Creek and tributaries Domestic Water: *not checked* Industrial Water: *not checked* Agricultural Water: *not checked* Stock Water: *not checked* Wildlife Habitat: *not checked* Harvesting: *not checked* Boating: *not checked* Aesthetics: *not checked*	Hiawata Creek and tributaries Domestic Water: checked Industrial Water: checked Agricultural Water: checked Stock Water: checked Wildlife Habitat: checked Harvesting: checked Boating: checked Aesthetics: checked	Added checks for Water Supply and Misc uses, the check boxes were erroneously blank.	Yes
173-201A-602 WRIA 14 Kennedy-Goldsborough	Uncle John~~s~~ Creek and tributaries	Uncle John Creek and tributaries	Spelling correction: Uncle Johns Creek changed to Uncle John Creek	No (1)

173-201A-602 WRIA 15 Kitsap	Chico Creek and tributaries above ~~junction~~ with Kitsap Creek (tributaries to Chico Bay in Dyes Inlet).	Chico Creek and tributaries above **confluence** with Kitsap Creek (tributaries to Chico Bay in Dyes Inlet).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 15 Kitsap	Unnamed tributary west of Port Gamble Bay at latitude 47.8~~195~~ longitude -122.58~~48~~.	Unnamed tributary west of Port Gamble Bay at latitude 47.8**220** longitude -122.58**31**.	Corrected Latitude and Longitude coordinates to correctly identify stream as shown on USEPA disapproval materials	No (2)
173-201A-602 WRIA 16 Skokomish-Dosewallips	Rock Creek and unnamed tributary at latitude 47.3894 longitude -123.3496: All waters (including tributaries) above the ~~junction~~.	Rock Creek and unnamed tributary at latitude 47.3894 longitude -123.3496: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 16 Skokomish-Dosewallips	Skokomish River, South Fork, and Brown Creek: All waters (including tributaries) above the ~~junction~~.	Skokomish River, South Fork, and Brown Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Boulder Creek and Deep Creek: All waters (including tributaries) above the ~~junction~~.	Boulder Creek and Deep Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Dungeness River and Canyon Creek: All waters (including tributaries) above the ~~junction~~.	Dungeness River and Canyon Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Elwha River and Cat Creek: All waters (including tributaries) above the ~~junction~~.	Elwha River and Cat Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 18 Elwha-Dungeness	Ennis Creek and White Creek (and all tributaries) from the ~~junction~~ with the Strait of Juan De Fuca to the Olympic National Park Boundary.	Ennis Creek and White Creek (and all tributaries) from the **confluence** with the Strait of Juan De Fuca to the Olympic National Park Boundary.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Griff Creek and the unnamed tributary at latitude 48.0135 longitude -123.5440 (Sect. 11 ~~T29N R7W~~): All waters (including tributaries) above the ~~junction~~.	Griff Creek and the unnamed tributary at latitude 48.0135 longitude -123.5440 (Sect. 11 **T29N R7W**): All waters (including tributaries) above the **confluence**.	Removed the extra space between T29N and R7W. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Hughes Creek and the unnamed tributary at latitude 48.0298 longitude -123.6322 (Sect. 6 ~~T29N R7W~~): All waters (including tributaries) above the ~~junction~~.	Hughes Creek and the unnamed tributary at latitude 48.0298 longitude -123.6322 (Sect. 6 **T29N R7W**): All waters (including tributaries) above the **confluence**.	Removed the extra space between T29N and R7W. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 18 Elwha-Dungeness	Matriotti Creek **Ex Primary Cont**: checked	Matriotti Creek **Primary Cont**: **checked**	The change from Extraordinary Primary Contact to Primary Contact means that fecal coliform organisms could increase from 50 colonies per 100mL, to 100 colonies per 100mL, with not more than 10% of all samples (or any single sample when less than ten sample points exist) obtained for calculating the geometric mean value exceeding 200 colonies per 100mL.	Yes

173-201A-602 WRIA 18 Elwha-Dungeness	Wolf Creek and the unnamed tributary at latitude 47.9654 longitude -123.5374 (Sect. 35 T29N R7W): All waters (including tributaries) above the ~~junction~~.	Wolf Creek and the unnamed tributary at latitude 47.9654 longitude -123.5374 (Sect. 35 T29N R7W): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 20 Soleduc	Hoh River and South Fork Hoh River: All waters above the ~~junction~~.	Hoh River and South Fork Hoh River: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 20 Soleduc	Quillayute River.	Quillayute **and Bogachiel** Rivers.	Clarified that Bogachiel River included in this designation. Reference - 600(1)(a)(iii)	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Clearwater River and the unnamed tributary at latitude 47.7270 longitude -124.0361 (Sect.26 T26N R11W): All waters (including tributaries) above the ~~junction~~.	Clearwater River and the unnamed tributary at latitude 47.7270 longitude -124.0361 (Sect.26 T26N R11W): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Kunamakst Creek and the unnamed tributary at latitude 47.7285 longitude -124.0771 (Sect.26 T26N R11W): All waters (including tributaries) above the ~~junction~~.	Kunamakst Creek and the unnamed tributary at latitude 47.7285 longitude -124.0771 (Sect.26 T26N R11W): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Matheny Creek and the unnamed tributary at latitude 47.5592 longitude -123.9538: All waters (including tributaries) above the ~~junction~~.	Matheny Creek and the unnamed tributary at latitude 47.5592 longitude -123.9538: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Queets River and tributaries above the ~~junction~~ with Tshletshy Creek.	Queets River and tributaries above the **confluence** with Tshletshy Creek.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 21 Queets-Quinault	Quinault River and tributaries from mouth to the ~~junction~~ with the North Fork Quinalt River.	Quinault River and tributaries from mouth to the **confluence** with the North Fork Quinalt River.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Quinault River and North Fork Quinault: All waters (including tributaries) above the ~~junction~~.	Quinault River and North Fork Quinault: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Salmon River, Middle Fork, and the unnamed tributary at latitude 47.5208 longitude -123.9899: All waters (including tributaries) above the ~~junction~~.	Salmon River, Middle Fork, and the unnamed tributary at latitude 47.5208 longitude -123.9899: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Sams River and the unnamed tributary at latitude 47.6059 longitude -123.8941: All waters (including tributaries) above the ~~junction~~.	Sams River and the unnamed tributary at latitude 47.6059 longitude -123.8941: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Sollecks River and the unnamed tributary at latitude 47.6937 longitude -124.0133: All waters (including tributaries) above the ~~junction~~.	Solleks River and the unnamed tributary at latitude 47.6937 longitude -124.0133: All waters (including tributaries) above the **confluence**.	Corrected spelling from Sollecks to Solleks. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Stequaleho Creek and the unnamed tributary at latitude 47.6620 longitude -124.0426: All waters (including tributaries) above the ~~junction~~.	Stequaleho Creek and the unnamed tributary at latitude 47.6620 longitude -124.0426: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 21 Queets-Quinault	Tshletshy Creek and the unnamed tributary at latitude 47.6585 longitude -123.8668: All waters (including tributaries) above the ~~junction~~.	Tshletshy Creek and the unnamed tributary at latitude 47.6585 longitude -123.8668: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 22 Lower Chehalis	Andrews Creek and tributaries above ~~junction~~ with West Fork.	Andrews Creek and tributaries above **confluence** with West Fork.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Baker Creek and the unnamed tributary at latitude 47.3301 longitude -123.4142: All waters (including tributaries) above the ~~junction~~.	Baker Creek and the unnamed tributary at latitude 47.3301 longitude -123.4142: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Big Creek and Middle Fork Big Creek: All waters (including tributaries) above the ~~junction~~.	Big Creek and Middle Fork Big Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Canyon River and the unnamed tributary at latitude 47.3473 longitude -123.4936: All waters (including tributaries) above the ~~junction~~.	Canyon River and the unnamed tributary at latitude 47.3473 longitude -123.4936: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Chehalis River from upper boundary of Grays Harbor at Cosmopolis (river mile 3.1, longitude 123°45'45"W) to latitude 46.6004 and longitude -123.1472 (Section 23 T13N R43W on main stem and to latitude 46.6013 and longitude -123.1253 on South Fork.~~.~~	Chehalis River from upper boundary of Grays Harbor at Cosmopolis (river mile 3.1, longitude 123°45'45"W) to latitude 46.6004 and longitude -123.1472 (Section 23 T13N R43W on main stem and to latitude 46.6013 and longitude -123.1253 on South Fork.	Removed second period at end of narrative description.	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Chester Creek and the unnamed tributary at latitude 47.4196 longitude -123.7841: All waters (including tributaries) above the ~~junction~~.	Chester Creek and the unnamed tributary at latitude 47.4196 longitude -123.7841: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Goforth Creek and the unnamed tributary at latitude 47.3560 longitude -123.7323: All waters (including tributaries) above the ~~junction~~.	Goforth Creek and the unnamed tributary at latitude 47.3560 longitude -123.7323: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 22 Lower Chehalis	Humptulips River, East Fork, and the unnamed tributary at latitude 47.3821 longitude -123.7163: All waters (including tributaries) above the ~~junction~~.	Humptulips River, East Fork, and the unnamed tributary at latitude 47.3821 longitude -123.7163: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Humptulips River, West Fork, and Petes Creek: All waters (including tributaries) above the ~~junction~~.	Humptulips River, West Fork, and Petes Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Johns River and North Fork Johns River: All waters above the ~~junction~~.	Johns River and North Fork Johns River: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Satsop River, West Fork, and Robertson Creek: All waters (including tributaries) above the ~~junction~~.	Satsop River, West Fork, and Robertson Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Satsop River, Middle Fork, and the unnamed tributary at latitude 47.3340 longitude -123.4451: All waters (including tributaries) above the ~~junction~~.	Satsop River, Middle Fork, and the unnamed tributary at latitude 47.3340 longitude -123.4451: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Wildcat Creek and tributaries above ~~junction~~ with Cloquallum Creek.	Wildcat Creek and tributaries above **confluence** with Cloquallum Creek.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 22 Lower Chehalis	Wishkah River ~~from river~~ and tributaries from latitude 47.1089 longitude -123.7908 to ~~junction~~ with West Fork.	Wishkah River and tributaries from latitude 47.1089 longitude -123.7908 to **confluence** with West Fork.	Removed extraneous words "from river." The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 22 Lower Chehalis	Wynoochee River and tributaries from latitude 46.9709 longitude -123.6252 ~~to~~ (near railroad crossing) ~~mouth~~ to Olympic National Forest boundary (river mile 45.9).	Wynoochee River and tributaries from latitude 46.9709 longitude -123.6252 (near railroad crossing) to Olympic National Forest boundary (river mile 45.9).	Removed extraneous words "to" and "mouth."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Chehalis River (including tributaries) above latitude 46.6004 longitude -123.1473 (Section 23 T13N R4W, except ~~-~~where specifically designated Char.	Chehalis River (including tributaries) above latitude 46.6004 longitude -123.1473 (Section 23 T13N R4W**)**, except where specifically designated Char.	Insert parenthesis after "Section 23 T13N R4W"and delete extra space between "except" and "where"	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Chehalis River mainstem from upper boundary of Grays Harbor at Cosmopolis (river mile 3.1, longitude 123°45'45"W) to latitude 46.6004 longitude -123.1473 (Section 23 T13N R4W on main stem and to latitude 46.6014 longitude -123.1253 on South Fork.[1]	Chehalis River mainstem from upper boundary of Grays Harbor at Cosmopolis (river mile 3.1, longitude 123°45'45"W) to latitude 46.6004 longitude -123.1473 (Section 23 T13N R4W**)** on main stem and to latitude 46.6014 longitude -123.1253 on South Fork.[1]	Insert parenthesis after "Section 23 T13N R4W"	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Chehalis River, South Fork, and the unnamed tributary at latitude 4~~9~~.179 longitude -123.4127 (Sect. 10 T10N R4W): All waters (including tributaries) above the ~~junction~~.	Chehalis River, South Fork, and the unnamed tributary at latitude 4**6**.179 longitude -123.4127 (Sect. 10 T10N R4W): All waters (including tributaries) above the **confluence**.	Corrected latitude value; typo in coordinate. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Chehalis River, West Fork, and East Fork Chehalis River: All waters (including tributaries) above the ~~junction~~.	Chehalis River, West Fork, and East Fork Chehalis River: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Eight Creek and the unnamed tributary at latitude 46.6211 longitude -123.4127: All waters (including tributaries) above the ~~junction~~.	Eight Creek and the unnamed tributary at latitude 46.6211 longitude -123.4127: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 23 Upper Chehalis	Fall Creek and the unnamed tributary at Sect. 22 T15N R1E: All waters (including tributaries) above their ~~junction~~.	Fall Creek and the unnamed tributary at Sect. 22 T15N R1E: All waters (including tributaries) above their **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Hanaford Creek and all tributaries from east boundary of Sec. 25-T15N-R2W (river mile 4.1) to the unnamed tributary at latitude 46.7295 longitude -122.6812 except where designated Char. Aquatic Life Use ~~Core Summer Habitat~~: Checked	Hanaford Creek and all tributaries from east boundary of Sec. 25-T15N-R2W (river mile 4.1) to the unnamed tributary at latitude 46.7295 longitude -122.6812 except where designated Char. Aquatic Life Use **Spawning/Rearing**: Checked	No change to descriptive text. The change in aquatic life use changes the following criteria: Core Summer Habitat, allowing: • Temperature - 16°C (highest 7 day average maximum) • Dissolved oxygen - 9.5 mg/L (lowest 1 day minimum) to Spawning/Rearing, allowing: • Temperature - 17.5°C (highest 7 day average maximum) • Dissolved oxygen - 8.0 mg/L (lowest 1 day minimum)	Yes
173-201A-602 WRIA 23 Upper Chehalis	Hanaford Creek and the unnamed tributary at latitude 46.7295 longitude -122.6812 (Sect. 4 T14N R1E): All waters (including tributaries) above the ~~junction~~.	Hanaford Creek and the unnamed tributary at latitude 46.7295 longitude -122.6812 (Sect. 4 T14N R1E): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 23 Upper Chehalis	Kearney Creek and the unnamed tributary at latitude 46.6256 longitude -122.5683: All waters (including tributaries) above the ~~junction~~.	Kearney Creek and the unnamed tributary at latitude 46.6256 longitude -122.5683: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Laramie Creek and the unnamed tributary at latitude 46.7901 longitude -122.5901: All waters (including tributaries) above the ~~junction~~.	Laramie Creek and the unnamed tributary at latitude 46.7901 longitude -122.5901: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Newaukum River, North Fork, and the unnamed tributary at latitude 46.6793 longitude -122.6677: All waters (including tributaries) above the ~~junction~~.	Newaukum River, North Fork, and the unnamed tributary at latitude 46.6793 longitude -122.6677: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Newaukum River, South Fork, and Frase Creek: All waters (including tributaries) above the ~~junction~~.	Newaukum River, South Fork, and Frase Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Pheeny Creek and the unnamed tributary at latitude 46.7836 longitude -122.6276 (Sect. 13 T15N R1E): All waters (including tributaries) above the ~~junction~~.	Pheeny Creek and the unnamed tributary at latitude 46.7836 longitude -122.6276 (Sect. 13 T15N R1E): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Porter Creek and Jamaica Day Creek: All waters above the ~~junction~~.	Porter Creek and Jamaica Day Creek: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Rock Creek (upstream of Pe Ell) and the unnamed tributary at latitude 46.5279 longitude -123.3782 (Sect. 11 T12N R6W): All waters (including tributaries) above the ~~junction~~.	Rock Creek (upstream of Pe Ell) and the unnamed tributary at latitude 46.5279 longitude -123.3782 (Sect. 11 T12N R6W): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 23 Upper Chehalis	Scatter Creek and tributaries from latitude 46.8025 longitude -123.0863 (near mouth) to headwaters.	Scatter Creek and tributaries from latitude 46.8025 longitude -123.0863 (near mouth) to headwaters.	Removed extra space in "from latitude."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Seven Creek and the unnamed tributary at latitude 46.6192 longitude -123.3723: All waters (including tributaries) above the ~~junction~~.	Seven Creek and the unnamed tributary at latitude 46.6192 longitude -123.3723: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Skookumchuck River and tributaries from ~~junction~~ with Hanaford Creek to headwaters (except where designated char).	Skookumchuck River and tributaries from **confluence** with Hanaford Creek to headwaters (except where designated char).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Skookumchuck River and Hospital Creek: All waters (including tributaries) above the ~~junction~~.	Skookumchuck River and Hospital Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 23 Upper Chehalis	Stillman Creek and Little Mill Creek (Sect. 23 T12N R4W): All waters (including tributaries) above the ~~junction~~.	Stillman Creek and Little Mill Creek (Sect. 23 T12N R4W): All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 Notes for WRIA 23:	1. Chehalis River from Scammon Creek (RM 65.8) to Newaukum River (RM 75.2);dissolved oxygen shall exceed 5.0 mg/L from June 1 to September 15. For the remainder of the year, the dissolved oxygen shall meet standard criteria.	1. Chehalis River from Scammon Creek (RM 65.8) to Newaukum River (RM 75.2); dissolved oxygen shall exceed 5.0 mg/L from June 1 to September 15. For the remainder of the year, the dissolved oxygen shall meet standard criteria.	Inserted a space after the "Newaukum River (RM 75.2);" semicolon.	No (1)
173-201A-602 WRIA 24 Willapa	Bear River and tributaries above latitude 46.3284 longitude -123.~~3284~~ (Section 28 T10N R10W) to headwaters.	Bear River and tributaries above latitude 46.3284 longitude -123.**9172** (Section 28 T10N R10W) to headwaters.	Corrected latitude value; typo in coordinate.	No (1)

173-201A-602 WRIA 24 Willapa	North River and Fall River: All waters above the ~~junction~~ (Section 2~~5~~ T15N R7W).	North River and Fall River: All waters above the **confluence** (Section 2**4** T15N R7W).	The word "junction" was removed and replaced by "confluence." Corrected Section number to match specified river confluence.	No (1)
173-201A-602 WRIA 24 Willapa	Willapa River and Oxbow Creek: All waters upstream of the ~~junction~~ (Section 2~~5~~ T13N R8W).	Willapa River and Oxbow Creek: All waters upstream of the **confluence** (Section 2**6** T13N R8W).	The word "junction" was removed and replaced by "confluence." Corrected Section number to match specified river confluence.	No (1)
173-201A-602 WRIA 25 Grays-Elochoman	Abernathy Creek and Cameron Creek: All waters above the ~~junction~~.	Abernathy Creek and Cameron Creek: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 25 Grays-Elochoman	Elochoman River and tributaries from mouth to latitude 46.22~~89~~ longitude -123.3~~597~~ (Section ~~30~~ T9N R6W).	Elochoman River and tributaries from mouth to latitude 46.22**92** longitude -123.3**606** (Section **25** T9N R6W).	Corrected Latitude/longitude and Section number to match coordinates.	No (1)
173-201A-602 WRIA 25 Grays-Elochoman	Elochoman River and tributaries from latitude 46.22~~89~~ longitude -123.3~~597~~ (Section ~~30~~ T9N R6W) to headwaters.	Elochoman River and tributaries from latitude 46.22**92** longitude -123.3**606** (Section **25** T9N R6W) to headwaters.	Corrected Latitude/longitude and Section number to match coordinates.	No (1)
173-201A-602 WRIA 25 Grays-Elochoman	Skomokawa Creek and Wilson Creek: All waters above the ~~junction~~.	Skomokawa Creek and Wilson Creek: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 26 Cowlitz	Coweeman River and tributaries from latitude 46.1405 longitude -122.8532 Section 31 T8N R1W)to Mulholland Creek (river mile 18.4).	Coweeman River and tributaries from latitude 46.1405 longitude -122.8532 **(**Section 31 T8N R1W) to Mulholland Creek (river mile 18.4).	Added parenthesis before Section 31 T8N R1W). Inserted space after (Section 31 T8N R1W).	No (1)

173-201A-602 WRIA 26 Cowlitz	Cowlitz River from latitude 46.2622 longitude -122.9001 (Section 14 T9N R2W) base of ~~Riffe Lake~~ Dam (river mile 52.0).	Cowlitz River from latitude 46.2622 longitude -122.9001 (Section 14 T9N R2W) base of **Mayfield** Dam (river mile 52.0).	Coordinates, Section number and river mile matches Mayfield Dam not Riffe Dam. Changed to Mayfield Dam; at this junction. The lake/reservoir would designate the use of the main stem and tributaries as Extraordinary by default so this is not a change of use.	No (1)
173-201A-602 WRIA 26 Cowlitz	Cowlitz River, and tributaries from base of ~~Riffe Lake~~ Dam (river mile 52.0) to headwaters.	Cowlitz River, and tributaries from base of **Mayfield** Dam (river mile 52.0) to headwaters.	See details above.	No (1)
173-201A-602 WRIA 27 Lewis	Clearwater Creek and unnamed creek: All waters (including tributaries) above the ~~junction~~ (Sect. 15 T8N R6E – below junction of Smith and Muddy Creeks).	Clearwater Creek and unnamed creek: All waters (including tributaries) above the **confluence** (Sect. 15 T8N R6E – below confluence of Smith and Muddy Creeks).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 27 Lewis	Kalama River east of Interstate 5 to Kalama River Falls (river mile 10.4) (including tributaries).	Kalama River east of Interstate 5 to Kalama River Falls (river mile 10.4) (including tributaries).	Removed extra space between "to" and "Kalama"	No (1)
173-201A-602 WRIA 27 Lewis	Lewis River and Pass Creek: All waters (including tributaries) above the ~~junction~~.	Lewis River and Pass Creek (alternately known as Swamp Creek): All waters (including tributaries) above the **confluence**.	Some maps are labeled Pass Creek and others are labeled Swampy Creek; this clarifies the location. The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 28 Salmon-Washougal	Duncan Creek and unnamed tributary just east of Duncan Creek: All waters north of highway 14.~~.~~	Duncan Creek and unnamed tributary just east of Duncan Creek: All waters north of highway 14.	Removed extra period at the end of the sentence.	No (1)
173-201A-602 WRIA 28 Salmon-Washougal	Green Leaf Creek and Hamilton Creek: All waters above the ~~junction~~.	Green Leaf Creek and Hamilton Creek: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 28 Salmon-Washougal	Salmon Creek from latitude 45.7176 longitude -122.6958 (below ~~junction~~ with Cougar Creek) and tributaries.	Salmon Creek from latitude 45.7176 longitude -122.6958 (below **confluence** with Cougar Creek) and tributaries.	Removed extra space before "longitude." The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 29 Wind-White Salmon	Bear Creek (tributary to White Salmon River) below National Forest Boundary	Bear Creek (tributary to White Salmon River **at Latitude 45.98290 Longitude -121.52946)** below National Forest Boundary	Included Latitude/Longitude to clarify which creek; and to match USEPA disapproval materials	No (2)
173-201A-602 WRIA 29 Wind-White Salmon	Killowatt Canyon Creek below National Forest Boundary	Killowatt Canyon Creek below National Forest Boundary **and unnamed creek at latitude 45.963 longitude -121.5154**	Added text describing "unnamed creek" to help located area and to match the USEPA disapproval materials.	No (2)
173-201A-602 WRIA 29 Wind-White Salmon	Rattlesnake Creek and the unnamed tributary at latitude 45.8512 longitude -121.4081: All waters (including tributaries) above the ~~junction~~.	Rattlesnake Creek and the unnamed tributary at latitude 45.8512 longitude -121.4081: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 29 Wind-White Salmon	Rock Creek and tributaries downstream of Gifford Pinchot National Forest boundaries.~~.~~	Rock Creek and tributaries downstream of Gifford Pinchot National Forest boundaries **from Latitude 45.68557 Longitude -121.88523**.	Added Latitude and Longitude to more easily identify stream, not clear from narrative description; removed second period at end of text.	No (1)
173-201A-602 WRIA 29 Wind-White Salmon	Spring Creek below National Forest Boundary.	Spring Creek below National Forest Boundary **(Latitude 45.99170; Longitude -121.57855)**.	Added Latitude/Longitude to more easily identify stream	No (1)
173-201A-602 WRIA 29 Wind-White Salmon	White Salmon River drainage's unnamed tributaries that ~~terminate~~ in Section 13 T6NR10E (latitude 46.00~~55~~ longitude 121.~~4991~~); all portions occurring downstream of the Gifford Pinchot National Forest boundary.	White Salmon River drainage's unnamed tributaries that **originate** in Section 13 T6N R10E (latitude 46.00**42** longitude 121.**5001**); all portions occurring downstream of the Gifford Pinchot National Forest boundary.	These streams originate in specified SECTION TOWNSHIP AND RANGE (not terminate); minor correction to Latitude/Longitude. Added a space between "Section 13 T6N" and "R10E."	No (1)
173-201A-602 WRIA 29 Wind-White Salmon	White Salmon River drainage's unnamed tributaries that ~~terminate~~ in Section 13 T6NR10E (latitude 46.00~~55~~ longitude 121.~~4991~~); all portions occurring upstream of the Gifford Pinchot National Forest boundary.	White Salmon River drainage's unnamed tributaries that **originate** in Section 13 T6N R10E (latitude 46.00**42** longitude 121.**5001**); all portions occurring upstream of the Gifford Pinchot National Forest boundary.	These streams originate in specified SECTION TOWNSHIP AND RANGE (not terminate); minor correction to Latitude/Longitude. Added a space between "Section 13 T6N" and "R10E."	No (1)
173-201A-602 WRIA 29 Wind-White Salmon	White Salmon River and Cascade Creek: All waters (including tributaries) above the ~~junction~~.	White Salmon River and Cascade Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 30 Klickitat	Clearwater Creek and Trappers Creek: All waters (including tributaries) above the ~~junction~~.	Clearwater Creek and Trappers Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 30 Klickitat	Cougar Creek and Big Muddy Creek: All waters (including tributaries) above the ~~junction~~.	Cougar Creek and Big Muddy Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 30 Klickitat	Diamond Creek and C~~a~~itin Creek: All waters (including tributaries) above the ~~junction~~.	Diamond Fork and C**u**itin Creek: All waters (including tributaries) above the **confluence**.	Corrected Diamond Fork's name and spelling of Cuitin Creek. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 30 Klickitat	Frasier Creek and Outlet Creek: All waters (including tributaries) above the ~~junction~~.	Frasier Creek and Outlet Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 30 Klickitat	Klickitat River and all tributaries above the ~~junction~~ with Diamond Fork.	Klickitat River and all tributaries above the **confluence** with Diamond Fork.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 30 Klickitat	Little Klickitat River and all tributaries above the ~~junction~~ with Cozy Nook Creek.	Little Klickitat River and all tributaries above the **confluence** with Cozy Nook Creek.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 31 Rock-Glade	Squaw Creek and unnamed tributary at ~~and~~ latitude 45.8758 longitude -120.4324 (Section 33 T5N R19E): all waters above ~~junction~~.	Squaw Creek and unnamed tributary at latitude 45.8758 longitude -120.4324 (Section 33 T5N R19E): all waters above **confluence**.	Removed extraneously word "and". The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 31 Rock-Glade	Rock Creek and Quartz Creek: all waters above ~~junction~~.	Rock Creek and Quartz Creek: all waters above **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 32 Walla Walla	Dry Creek and tributaries above ~~junction~~ with unnamed creek at latitude 46.1197 longitude -118.1378 (Seaman Rd).	Dry Creek and tributaries above **confluence** with unnamed creek at latitude 46.1197 longitude -118.1378 (Seaman Rd).	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 **WRIA 32** **Walla Walla**	Mill Creek from mouth to 13th Street Bridge in Walla Walla (river mile 6.4).[1] Spawning/Rearing: checked	Mill Creek from mouth to 13th Street Bridge in Walla Walla (river mile 6.4).1 **Rearing/Migration Only**: checked	Same narrative – change in check boxes only. Incorrect aquatic life use checked in the 2006 rule making language; use changed to match USEPA disapproval materials and 1997 and 2003 WQ Standards.	Yes
173-201A-602 **WRIA 32** **Walla Walla**	Mill Creek from 13th Street Bridge in Walla Walla (river mile 6.4) ~~to latitude 46.0862 longitude -118.2395 in north channel and~~ latitude 46.0800 longitude -118.2541 ~~in south channel~~	Mill Creek from 13th Street Bridge in Walla Walla (river mile 6.4) to **diversion structure at confluence of Mill Creek and unnamed creek (river mile 11.4);** latitude 46.0800 longitude -118.2541	Mill Creek does not have a north and South channel; the description is invalid. Identified on the ground location and Lat/Long to represent same location to match 1997 standards and USEPA disapproval materials.	No (1)
173-201A-602 **WRIA 32** **Walla Walla**	Mill Creek from latitude 46.08~~62~~ longitude -118.2~~395 in north channel and latitude 46.0800 longitude -118.2541 in south channel~~ to headwaters (including tributaries) except where otherwise designated Char	Mill Creek from **river mile 11.4;** latitude 46.08**0** longitude -118.2**541** to headwaters (including tributaries) except where otherwise designated Char	Mill Creek does not have a north and South channel; the description is invalid. Identified on the ground location and Lat/Long to represent same location to match 1997 standards and USEPA disapproval materials.	No (1)

173-201A-602 WRIA 32 Walla Walla	Mill Creek and Railroad Canyon: All waters (including tributaries) above the ~~junction up~~ to ~~city of Walla Walla Waterworks Dam~~ (river mile 21.6).	Mill Creek and Railroad Canyon: All waters (including tributaries) above the **confluence** to **the Oregon state line** (river mile 21.6).	The word "junction" was removed and replaced by "confluence." River mile 21.6 is the Oregon border. The city of Walla Walla Waterworks Dam moved to river mile 25.2 (which is in Oregon).	No (1)
173-201A-602 WRIA 32 Walla Walla	Mill Creek and tributaries ~~from~~ city of Walla Walla Waterworks Dam (river mile ~~21.6~~) to headwaters ~~(including upstream and downstream of where Mill Creek flows into Oregon)~~.[2]	Mill Creek and tributaries **within Washington that are above the** city of Walla Walla Waterworks Dam (river mile **25.2**) to headwaters.[2]	River mile 21.6 is Oregon border. The city of Walla Walla Waterworks Dam moved to river mile 25.2 (which is in Oregon). Mill Creek goes into Oregon and curves back into Washington. This record covers the section of Mill Creek upstream of the Oregon border.	No (1)
173-201A-602 WRIA 32 Walla Walla	Touchet River above latitude 46.3172 longitude -118.0000 (Sect. ~~25~~ T10N R38E) (including tributaries) not otherwise designated Char.	Touchet River above latitude 46.3172 longitude -118.0000 (Sect. **30** T10N R38E) (including tributaries) not otherwise designated Char.	Corrected SECTION TOWNSHIP AND RANGE (did not match river location and TRS).	No (1)
173-201A-602 WRIA 32 Walla Walla	Touchet River, North Fork, and Wolf Creek: All waters (including tributaries) above the ~~junction~~.	Touchet River, North Fork, and Wolf Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 32 Walla Walla	Touchet River, South Fork, and the unnamed tributary at latitude 46.2307 longitude -117.9397: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Umatilla National Forest.	Touchet River, South Fork, and the unnamed tributary at latitude 46.2307 longitude -117.9397: All waters (including tributaries) above the **confluence**, except those waters in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 32 Walla Walla	Touchet River, South Fork, and the unnamed tributary at latitude 46.2307 longitude -117.9397: All waters (including tributaries) above the ~~junction~~ that are in or above the Umatilla National Forest.	Touchet River, South Fork, and the unnamed tributary at latitude 46.2307 longitude -117.9397: All waters (including tributaries) above the **confluence** that are in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 32 Walla Walla	Whiskey Creek, and unnamed tributary system at and latitude 46.2176 longitude -118.0667 (Section 33 T9N R38E), all waters above ~~junction~~.	Whiskey Creek, and unnamed tributary system at and latitude 46.2176 longitude -118.0667 (Section 33 T9N R38E), all waters above **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 Notes for WRIA 32:	2. No waste discharge will be permitted for Mill Creek and tributaries from city of Walla Walla Waterworks Dam (river mile ~~21.6~~) to headwaters.	2. No waste discharge will be permitted for Mill Creek and tributaries **in Washington** from city of Walla Walla Waterworks Dam (river mile **25.2**) to headwaters.	Adjusted river mile to actual location of water intake and included reference to tributaries within Washington State.	Yes
173-201A-602 Notes for WRIA 32:	3. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t =34/(T + 9).	3. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T + 9).	Deleted extra space in formula "t =34/(T + 9)	No (1)

173-201A-602 WRIA 34 Palouse	Palouse River from ~~junction~~ south fork (Colfax, river mile 89.6) to Idaho border (river mile 123.4).[1]	Palouse River**, main river,** from **confluence with** south fork (Colfax, river mile 89.6) to Idaho border (river mile 123.4).[1]	Clarified that designation refers to the main stem; to match USEPA disapproval materials. The word "junction" was removed and replaced by "confluence with."	No (1,2)
173-201A-602 WRIA 35 Middle Snake	Charley Creek and the unnamed tributary at latitude 46.2851 longitude -117.3216: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Umatilla National Forest.	Charley Creek and the unnamed tributary at latitude 46.2851 longitude -117.3216: All waters (including tributaries) above the **confluence**, except those waters in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Charley Creek and the unnamed tributary at latitude 46.2851 longitude -117.3216: All waters (including tributaries) above the ~~junction~~ that are in or above the Umatilla National Forest.	Charley Creek and the unnamed tributary at latitude 46.2851 longitude -117.3216: All waters (including tributaries) above the **confluence** that are in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Cottonwood Creek and the unnamed tributary at latitude 46.0678 longitude -117.3015 (Section 21 T7N R44E) all waters above the ~~junction~~.	Cottonwood Creek and the unnamed tributary at latitude 46.0678 longitude -117.3015 (Section 21 T7N R44E) all waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	George Creek and the unnamed tributary at latitude 46.2292 longitude -117.1874 (Section 29 T9N R45E), all waters above ~~junction~~ not otherwise designated Char.	George Creek and the unnamed tributary at latitude 46.2292 longitude -117.1874 (Section 29 T9N R45E), all waters above **confluence** not otherwise designated Char.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Menatchee Creek and West Fork Menatchee Creek: All waters (including tributaries) above the ~~junction~~.	Menatchee Creek and West Fork Menatchee Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 35 Middle Snake	Pataha Creek and Dry Pataha Creek: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Umatilla National Forest.	Pataha Creek and Dry Pataha Creek: All waters (including tributaries) above the **confluence**, except those waters in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Pataha Creek and Dry Pataha Creek: All waters (including tributaries) above the ~~junction~~ that are in or above the Umatilla National Forest.	Pataha Creek and Dry Pataha Creek: All waters (including tributaries) above the **confluence** that are in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Tenmile Creek, all waters above ~~junction~~ with unnamed creek at latitude 46.2156 longitude -117.0386 (Section 33 T9N R46E).	Tenmile Creek, all waters above **confluence** with unnamed creek at latitude 46.2156 longitude -117.0386 (Section 33 T9N R46E).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Tucannon River and Panjab Creek: All waters (including tributaries) above the ~~junction~~.	Tucannon River and Panjab Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Tucannon River's unnamed tributaries in Sect. 1 -T10N R40E and in Sect. 35 T11N R40E (South of Marengo): all waters above their forks.	Tucannon River's unnamed tributaries in Sect.1 T10N R40E and in Sect. 35 T11N R40E (South of Marengo): all waters above their forks.	Removed extra space between "Sect.1" and " T10N"	No (1)
173-201A-602 WRIA 35 Middle Snake	Tumalum Creek and the unnamed tributary at latitude 46.3594 longitude -117.6488: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Umatilla National Forest.	Tumalum Creek and the unnamed tributary at latitude 46.3594 longitude -117.6488: All waters (including tributaries) above the **confluence**, except those waters in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 35 Middle Snake	Tumalum Creek and the unnamed tributary at latitude 46.3594 longitude -117.6488: All waters (including tributaries) above the ~~junction~~ that are in or above the Umatilla National Forest.	Tumalum Creek and the unnamed tributary at latitude 46.3594 longitude -117.6488: All waters (including tributaries) above the **confluence** that are in or above the Umatilla National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 35 Middle Snake	Willow Creek and the unnamed tributary at latitude 46.4182 longitude -117.8314: All waters (including tributaries) above the ~~junction~~.	Willow Creek and the unnamed tributary at latitude 46.4182 longitude -117.8314: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 37 Lower Yakima	Ahtanum Creek, between junction with South Fork and ~~junction~~ of North and Middle Forks (including tributaries) except where designated Char	Ahtanum Creek, between confluence with South Fork and **confluence** of North and Middle Forks (including tributaries) except where designated Char	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 37 Lower Yakima	Ahtanum Creek, North Fork, and Middle Fork Ahtanum Creek: All waters (including tributaries) above the ~~junction~~.	Ahtanum Creek, North Fork, and Middle Fork Ahtanum Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 38 Naches	Bumping Lake's unnamed tributaries at latitude 46.8~~850~~ longitude -121.~~2779~~.	Bumping Lake's unnamed tributaries at latitude 46.8**464** longitude -121.**3106**.	Corrected latitude and longitude to identify correct tributary	No (1)
173-201A-602 WRIA 38 Naches	Bumping River and tributaries downstream of the upper end of Bumping Lake ~~-~~(except where designated char).	Bumping River and tributaries downstream of the upper end of Bumping Lake (except where designated char).	Deleted extra space in "Lake (except"	No (1)
173-201A-602 WRIA 38 Naches	Little Naches River and Bear Creek: All waters (including tributaries) above the ~~junction~~.	Little Naches River and Bear Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 38 Naches	Rattlesnake Creek: All waters above the ~~junction~~ with North Fork Rattlesnake Creek.	Rattlesnake Creek: All waters above the **confluence** with North Fork Rattlesnake Creek.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 38 Naches	Rattlesnake Creek, North Fork, all waters above latitude 46.8107 longitude 121.0694 (from and including the unnamed tributary just above ~~junction~~ with mainstem).	Rattlesnake Creek, North Fork, all waters above latitude 46.8107 longitude 121.0694 (from and including the unnamed tributary just above **confluence** with mainstem).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 38 Naches	Tieton River, North Fork (including tributaries) above the ~~junction at~~ Clear Lake.	Tieton River, North Fork (including tributaries) above the **confluence with** Clear Lake.	The words "junction at" was removed and replaced by "confluence with."	No (1)

173-201A-602 WRIA 39 Upper Yakima	Cle Elum River and all tributaries from ~~junction~~ with unnamed tributary at and latitude 47.3805 ~~-~~longitude -121.0983 to headwaters.	Cle Elum River and all tributaries from **confluence** with unnamed tributary at and latitude 47.3805 longitude -121.0983 to headwaters.	The word "junction" was removed and replaced by "confluence." Deleted the extra space in "47.3805 longitude"	No (1)
173-201A-602 WRIA 39 Upper Yakima	Manastash Creek: All waters above the ~~Junction~~ of the North and South Forks that are downstream of the Wenatchee National Forest boundary.	Manastash Creek: All waters above the **confluence** of the North and South Forks that are downstream of the Wenatchee National Forest boundary.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 39 Upper Yakima	Manastash Creek: All waters above the ~~Junction~~ of the North and South Forks that are in or above the Wenatchee National Forest.	Manastash Creek: All waters above the **confluence** of the North and South Forks that are in or above the Wenatchee National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 39 Upper Yakima	Manastash Creek mainstem from mouth to ~~junction~~ of North and South Forks.	Manastash Creek mainstem from mouth to **confluence** of North and South Forks.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 39 Upper Yakima	Manastash Creek, tributaries to mainstem, between the mouth and the ~~junction~~ of North and South Forks.	Manastash Creek, tributaries to mainstem, between the mouth and the **confluence** of North and South Forks.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 39 Upper Yakima	Swauk Creek mainstem from mouth to ~~junction~~ with First Creek.	Swauk Creek mainstem from mouth to **confluence** with First Creek.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 39 Upper Yakima	Swauk Creek from ~~junction~~ with First Creek to Wenatchee National Forest (including tributaries).	Swauk Creek from **confluence** with First Creek to Wenatchee National Forest (including tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 39 Upper Yakima	Taneum Creek, tributaries to mainstem, from mouth to Wenatchee National Forest boundary. **Ex Primary Cont**: checked	Taneum Creek, tributaries to mainstem, from mouth to Wenatchee National Forest boundary. **Primary Cont**: checked	Same narrative – change one check box only. In Table 602 the wrong recreation use was checked (didn't match the default designation in 1997 standards). This corrects the recreations to be Primary Contact Recreation as it was designated in 1997. Note: no reference to Taneum Creek in 2003 or 2007 standards.	Yes
173-201A-602 WRIA 39 Upper Yakima	Teanaway River, West Fork, and tributaries downstream of the Wenatchee National Forest.	Teanaway River, West Fork **and Middle Fork**, and tributaries downstream of the Wenatchee National Forest.	Added Middle Fork of Teanaway River – current description implies inclusion; this makes it explicate to match USEPA disapproval materials.	No (2)
173-201A-602 WRIA 39 Upper Yakima	Teanaway River, West Fork, and tributaries upstream of the Wenatchee National Forest.	Teanaway River, West Fork **and Middle Fork**, and tributaries upstream of the Wenatchee National Forest.	Added Middle Fork of Teanaway River – current description implies inclusion; this makes it explicate to match USEPA disapproval materials.	No (2)
173-201A-602 WRIA 39 Upper Yakima	Teanaway River, North Fork, and tributaries from ~~junction with West Fork~~ to Jungle Creek that are downstream of the Wenatchee National Forest boundary (except where designated otherwise).	Teanaway River, North Fork (and tributaries) from **mouth** to Jungle Creek that are downstream of the Wenatchee National Forest boundary (except where designated otherwise).	Teanaway River, North Fork and West Fork do not meet; both forks are tributaries of the main stem. This is clarification.	No (1)

173-201A-602 WRIA 39 Upper Yakima	Teanaway River, North Fork, and tributaries from ~~junction with West Fork~~ to Jungle Creek that are in or above the Wenatchee National Forest boundary (except where designated otherwise).	Teanaway River, North Fork (and tributaries) from **mouth** to Jungle Creek that are in or above the Wenatchee National Forest boundary (except where designated otherwise).	Teanaway River, North Fork and West Fork do not meet; both forks are tributaries of the main stem. This is clarification.	No (1)
173-201A-602 WRIA 39 Upper Yakima	Yakima River and tributaries above ~~the unnamed tributary (latitude 47.28927 longitude -121.2971) entering the Yakima River~~ in Sect.25 T21NR12E.	Yakima River and tributaries above **but not including Cedar Creek (latitude 47.2892 longitude -121.2947)** in Sect.25 T21NR12E.	Creek named on some maps and GIS data as Cedar Creek; Corrected latitude & longitude to correctly identify tributary	No (1)
173-201A-602 WRIA 45 Wenatchee	Chiwaukum Creek from ~~junction~~ with Skinney Creek to headwaters (including tributaries).	Chiwaukum Creek from **confluence** with Skinney Creek to headwaters (including tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 45 Wenatchee	Chiwawa River from mouth to Chi~~c~~kamin Creek (including tributaries).	Chiwawa River from mouth to Chikamin Creek (including tributaries).	Spelling error: "Chickamin" is spelled " Chikamin"	No (1)
173-201A-602 WRIA 45 Wenatchee	Chiwawa River (and all tributaries) above and including Chi~~c~~kamin Creek.	Chiwawa River (and all tributaries) above and including Chikamin Creek.	Spelling error: "Chickamin" is spelled " Chikamin"	No (1)
173-201A-602 WRIA 45 Wenatchee	Dry Creek and Chumstick Creek: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Wenatchee National Forest.	Dry Creek and Chumstick Creek: All waters (including tributaries) above the **confluence**, except those waters in or above the Wenatchee National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 45 Wenatchee	Dry Creek and Chumstick Creek: All waters (including tributaries) above the ~~junction~~ that are in or above the Wenatchee National Forest.	Dry Creek and Chumstick Creek: All waters (including tributaries) above the **confluence** that are in or above the Wenatchee National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 45 Wenatchee	Eagle Creek and the unnamed tributary at latitude 47.6544 longitude -120.5165: All waters (including tributaries) above the ~~junction~~ that are in or above the Wenatchee National Forest.	Eagle Creek and the unnamed tributary at latitude 47.6544 longitude -120.5165: All waters (including tributaries) above the **confluence** that are in or above the Wenatchee National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 45 Wenatchee	Icicle Creek (including tributaries) from mouth to ~~confluence~~ National Forest Boundary.	Icicle Creek (including tributaries) from mouth to **the** National Forest Boundary.	Deleted the word "confluence" added "the" to clarify the sentence.	No (1)
173-201A-602 WRIA 45 Wenatchee	Mission Creek from latitude 47.~~5583~~ longitude -120.~~5745~~ to headwaters (including tributaries) downstream of the National Forest boundary.	Mission Creek from latitude 47.**4496** longitude -120. **4945** to headwaters (including tributaries) downstream of the National Forest boundary.	Corrected latitude & Longitude; original coordinate on Peshastin Creek	No (1)
173-201A-602 WRIA 45 Wenatchee	Mission Creek from latitude 47.~~5583~~ longitude -120.~~5745~~ to headwaters (including tributaries) in or above the National Forest boundary.	Mission Creek from latitude 47.**4496** longitude -120.**4945** to headwaters (including tributaries) in or above the National Forest boundary.	Corrected latitude & Longitude; original coordinate on Peshastin Creek	No (1)
173-201A-602 WRIA 45 Wenatchee	Peshastin Creek from ~~junction~~ with Mill Creek to National Forest Boundary (including tributaries).	Peshastin Creek from **confluence** with Mill Creek to National Forest Boundary (including tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 45 Wenatchee	Second Creek and the unnamed tributary at latitude 47.7384 longitude -120.5935: All waters (including tributaries) above the ~~junction~~.	Second Creek and the unnamed tributary at latitude 47.7384 longitude -120.5935: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 45 Wenatchee	Van Creek and the unnamed tributary at latitude 47.6722 longitude -120.5373: All waters (including tributaries) above the ~~junction~~.	Van Creek and the unnamed tributary at latitude 47.6722 longitude -120.5373: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 45 Wenatchee	Wenatchee River and all tributaries ~~upstream of Minnow Creek (~~above Chiwawa River ~~junction)~~.	Wenatchee River and all tributaries above Chiwawa River **confluence**.	Reference to Minnow Creek is more confusing than helpful in finding this location. Removed to clarify location. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Brennegan Creek and the unnamed tributary at and latitude 47.9098 longitude -120.4185: All waters (including tributaries) above the ~~junction~~.	Brennegan Creek and the unnamed tributary at and latitude 47.9098 longitude -120.4185: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Entiat River's unnamed tributaries upstream of ~~-~~latitude 47.9106 longitude -121.5010 (below Fox Creek).	Entiat River's unnamed tributaries upstream of latitude 47.9106 longitude -121.5010 (below Fox Creek).	Removed the extra space from "of latitude"	No (1)
173-201A-602 WRIA 46 Entiat	Gray Canyon, North Fork, and South Fork Gray Canyon: All waters (including tributaries) above the ~~junction~~.	Gray Canyon, North Fork, and South Fork Gray Canyon: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Mud Creek and Switchback Canyon: All waters (including tributaries) above the ~~junction~~.	Mud Creek and Switchback Canyon: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Potato Creek and Gene Creek: All waters above the ~~junction~~.	Potato Creek and Gene Creek: All waters above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Preston Creek and South Fork Preston Creek: All waters (including tributaries) above the ~~junction~~.	Preston Creek and South Fork Preston Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 46 Entiat	Stormy Creek and the unnamed tributary at latitude 47.8387 longitude -120.3865: All waters (including tributaries) above the ~~junction~~.	Stormy Creek and the unnamed tributary at latitude 47.8387 longitude -120.3865: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 46 Entiat	Tillicum Creek and Indian Creek: All waters (including tributaries) above the ~~junction~~.	Tillicum Creek and Indian Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Beaver Creek and South Fork Beaver Creek: All waters (including tributaries) above the ~~junction~~.	Beaver Creek and South Fork Beaver Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Boulder Creek and Pebble Creek: All waters (including tributaries) above the ~~junction~~.	Boulder Creek and Pebble Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Chewuch River and tributaries above Buck Creek at Section 30, T38, R22E.~~.~~	Chewuch River and tributaries above Buck Creek at Section 30, T38, R22E.	Deleted extra period at the end of the sentence.	No (1)
173-201A-602 WRIA 48 Methow	Goat Creek above the ~~junction~~ with Roundup Creek to headwaters (including tributaries).	Goat Creek above the **confluence** with Roundup Creek to headwaters (including tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Libby Creek and Hornel Draw: All waters (including tributaries) above the ~~junction~~.	Libby Creek and Hornel Draw: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Lost River Gorge and all tributaries upstream of ~~junction~~ with Sunset Creek.	Lost River Gorge and all tributaries upstream of **confluence** with Sunset Creek.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Methow River from mouth to ~~junction~~ with Twisp River.	Methow River from mouth to **confluence** with Twisp River.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Methow River from ~~junction~~ with Twisp River to Chewuch River (river mile 50.1).	Methow River from confluence with Twisp River to Chewuch River (river mile 50.1).	The word "junction" was removed and replaced by "confluence."	No (1)

173-201A-602 WRIA 48 Methow	Methow River, West Fork, (including tributaries) from and including Robinson Creek and its tributaries to headwaters (except unnamed tributary above mouth at latitude 48.6594 longitude -120.5382.	Methow River, West Fork, (including tributaries) from and including Robinson Creek and its tributaries to headwaters (except unnamed tributary above mouth at latitude 48.6591 longitude -120.5493.	Corrected latitude & longitude to coincide with junction described.	No (1)
173-201A-602 WRIA 48 Methow	Smith Canyon Creek and Elderberry Canyon: All waters (including tributaries) above the junction.	Smith Canyon Creek and Elderberry Canyon: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 48 Methow	Twisp River and War Creek: All waters (including tributaries) above the junction.	Twisp River and War Creek: All waters (including tributaries) above the **confluence**.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 Notes for WRIA 54:	1. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t-= 34/(T + 9).	1. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t= 34/(T + 9).	Removed space after "t" in the formula t= 34/(T + 9).	No (1)
173-201A-602 Notes for WRIA 54:	2. a. The average euphotic zone concentration of total phosphorus (as P) shall not exceed 25µg/L during the period of June 1 to October 31. b. Temperature shall not exceed a 1-DMax of 20.0°C, due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t-= 34/(T + 9).	2. a. The average euphotic zone concentration of total phosphorus (as P) shall not exceed 25µg/L during the period of June 1 to October 31. b. Temperature shall not exceed a 1-DMax of 20.0°C, due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t= 34/(T + 9).	Removed space after "t" in the formula t= 34/(T + 9).	No (1)

173-201A-602 WRIA 62 Pend Oreille	Harvey Creek and Paupac Creek: All waters (including tributaries) above the ~~junction~~.	Harvey Creek **(also called Outlet Creek)** and Paupac Creek: All waters (including tributaries) above the **confluence**.	Clarification; creek has different names on different maps. The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 62 Pend Oreille	Le Clerc Creek, East Branch, and West Branch Le Clerc Creek: All waters (including tributaries) above the ~~junction~~, except those waters in or above the Colville National Forest.	Le Clerc Creek, East Branch, and West Branch Le Clerc Creek: All waters (including tributaries) above the **confluence**, except those waters in or above the Colville National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 62 Pend Oreille	Le Clerc Creek, East Branch, and West Branch Le Clerc Creek: All waters (including tributaries) above the ~~junction~~ that are in or above the Colville National Forest.	Le Clerc Creek, East Branch, and West Branch Le Clerc Creek: All waters (including tributaries) above the **confluence** that are in or above the Colville National Forest.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 62 Pend Oreille	Le Clerc Creek from mouth to ~~junction~~ with West Branch le Clerc Creek (including tributaries).	Le Clerc Creek from mouth to **confluence** with West Branch le Clerc Creek (including tributaries).	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 WRIA 62 Pend Oreille	Sullivan Creek above ~~junction~~ with Harvey Creek (including tributaries) to headwaters.	Sullivan Creek above **confluence** with Harvey Creek (including tributaries) to headwaters.	The word "junction" was removed and replaced by "confluence."	No (1)
173-201A-602 Notes for WRIA 62:	1. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t~~-~~= 34/(T + 9).	1. Temperature shall not exceed a 1-DMax of 20.0°C due to human activities. When natural conditions exceed a 1-DMax of 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t= 34/(T + 9).	Removed space after "t" in the formula t= 34/(T + 9).	No (1)

Ecology Publication 06-10-038	[Various items in the legend]	[Various items in the legend]	Remove word "Proposed" as these are now incorporated into Final rule. Removed author's name.	No (1)
	[Various items in the legend]	[Various items in the legend]	In WRIA 18, the temperatures for Spawning streams were erroneously not included; and have been added.	No (1)
	[Various items in the legend]	[Various items in the legend]	The legend for WRIA 26 included the error: "Existing Char Criteria (remains 12°C)". Legend should read "Open Water and Open Features".	No (1)
	[Various items in the legend]	[Various items in the legend]	The legend for WRIA 38 has an extra line: "Proposed Spawning/Incubation Criteria". This has been removed.	No (1)
	WRIA 14 Kennedy-Goldsborough No language – all visual maps Johns Creek Spawning Criteria (13°C from Sept. 1 – May 15) covers mouth to approximately river mile 1.	No language – all visual maps Johns Creek Spawning Criteria (13°C from Sept. 1 – May 15) covers mouth to river mile 3.0.	The GIS linework was corrected to extend from the mouth to river mile 3.0.	Yes

(1) These changes are clarifications and spelling/typographical corrections. They do not impose economic impacts.
(2) These changes are necessary to bring the rule into compliance with EPA mandates. These are exempt from economic analysis.
(3) The water quality standard at 173-201A-600(2) has a general statement that water quality standards do not apply to waters on Indian reservations. It has come to our attention that this general statement is incorrect. The Puyallup Tribe Land Claims Settlement of 1989 has

provisions for tribal jurisdiction for waters overlying trust properties that include the reach of the Puyallup River within exterior boundary of the reservation (which includes the bed and banks, and jurisdiction up to the ordinary high water mark) as well as tribal marine properties on the Hylebos waterway and along Brown's Point. The state department of Ecology maintains jurisdiction over water quality of surface waters overlying fee lands on the reservation (which includes waters tributary to the Puyallup River such as Clarks Creek, Clear Creek, Swab Creek, Wapato Creek, and Hylebos Creek).

The general statement that the state water quality standards do not apply to segments of waters on Indian reservations is thus an error in the case of the Puyallup Tribe, and is being corrected. This oversight also resulted in subsequent errors in Table 602, WRIA 10, for three tributaries to the Puyallup River that remain under state jurisdiction (Clarks Creek, Clear Creek, and Swam Creek). These tributaries are all protected for "core summer habitat" regardless of whether they are within the reservation or outside of the reservation. These errors are being corrected by striking out the language referring to waters "upstream of tribal reservation".

The designation of these areas does not change as a result of these changes (though the reason for the designation does change). Therefore, the proposed changes do not impose economic impacts.