



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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May 16, 2012

Washington State Department of Transportation  
Attn: Barbara Aberle  
Southwest Region  
P.O. Box 1709  
Vancouver, WA 98668-1709

RE: Water Quality Certification Order #8961 for Corps Public Notice No. NWS-2011-645 to replace North River and Smith Creek Bridges on SR 105 near the city of Raymond, Pacific County, Washington.

Dear Ms Aberle:

On June 22, 2011 Washington State Department of Transportation submitted a Joint Aquatic Resources Permit Application (JARPA) to the Department of Ecology (Ecology) for a Section 401 Water Quality Certification (401 Certification) under the federal Clean Water Act for the proposed SR 105 North River and Smith Creek Bridge Replacement project.

On behalf of the State of Washington, Ecology certifies that the work described in the JARPA and the public notice complies with applicable provisions of Sections 301, 302, 303, 306 and 307 of the Clean Water Act, as amended and applicable state laws. This certification is subject to the conditions contained in the enclosed Order.

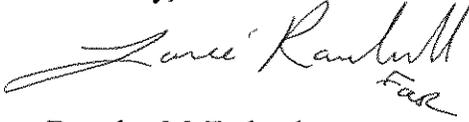
This project will replace the two deficient bridges and will result in 0.91 acres of permanent impacts and 0.99 acres of long-term temporary impacts to Category I, II, and III wetlands. Unavoidable permanent and long-term temporary impacts will be mitigated off site at the Tarlatt Slough Mitigation Site. This project will use 8.26 acres of wetland rehabilitation mitigation credit at this site to compensate for project impacts.

If you have any questions, please contact Kerry Carroll at 360-407-7503. The enclosed Order may be appealed by following the procedures described in the Order.



Ms. Barbara Aberle  
WQC #8961, Corps No. NWS -2011-645  
May 16, 2012  
Page 2 of 2

Sincerely,

A handwritten signature in cursive script that reads "Loree Randall" with a flourish underneath.

Brenden McFarland  
Environmental Review and Transportation Section  
Shorelands and Environmental Assistance Program

By Certified Mail 7009 0820 0001 9056 0861

Enclosures

e-cc: Sandi Manning, Corps  
Anne Friesz, WDFW  
Sheila Pendleton-Orme, Ecology SWRO  
Caroline Corcoran, Ecology  
Loree' Randall - HQ  
[ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov)

<b>IN THE MATTER OF GRANTING A</b>	)	<b>ORDER # 8961</b>
<b>WATER QUALITY</b>	)	<b>Corps Reference No. NWS-2011-645</b>
<b>CERTIFICATION TO</b>	)	Replace two structurally deficient bridges on SR
<b>Washington State Department of</b>	)	105 over North River and Smith Creek located in
<b>Transportation</b>	)	Pacific County, Washington.
in accordance with 33 U.S.C. 1341	)	
(FWPCA § 401), RCW 90.48.120, RCW	)	
90.48.260 and Chapter 173-201A WAC	)	

TO: Washington State Department of Transportation  
 Attn: Barbara Aberle  
 Southwest Region  
 P.O. Box 1709  
 Vancouver, WA 98668-1709

On June 22, 2011 Ecology received a Joint Aquatic Resources Permit Application (JARPA) from Washington State Department of Transportation (WSDOT) requesting a 401 Water Quality Certification (WQC). Ecology issued a public notice for the project on November 4, 2011.

The proposed project entails replacing two structurally deficient bridges on SR 105. The Smith Creek Bridge will be replaced in the same horizontal alignment as the existing bridge. The North River Bridge will be shifted 40 feet north of the existing structure. SR 105 will be shifted east of the road (inland) between the bridges. Demolition of temporary structures and the old bridges will also be done.

**AUTHORITIES**

In exercising authority under 33 U.S.C. § 1341, RCW 90.48.120, and RCW 90.48.260, Ecology has reviewed this application pursuant to the following:

1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §§1311, 1312, 1313, 1316, and 1317 (FWPCA §§ 301, 302, 303, 306 and 307);
2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. §1313 and by Chapter 90.48 RCW, and with other applicable state laws; and
3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.

## **WATER QUALITY CERTIFICATION CONDITIONS**

Through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned will be conducted in a manner that will comply with applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. §1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order.

Certification of this proposal does not authorize WSDOT to exceed applicable state water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification absolves WSDOT from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments resulting from project construction or operations.

### **A. General Conditions**

1. In this Order, the term "Applicant" shall mean the Washington State Department of Transportation and its agents, assignees, and contractors.
2. All submittals required by this Order shall be sent to Ecology's Headquarters Office, Attn: Federal Project Coordinator, P.O. Box 47600, Olympia, WA 98504 or via e-mail (preferred), if possible, to the Coordinator assigned to this project. The submittals shall be identified with Order No. 8961 and include the Applicant's name, project name, project location, the project contact and the contact's phone number.
3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on June 22, 2011, unless otherwise authorized by Ecology.
4. The Applicant shall obtain Ecology review and approval before undertaking any changes to the proposed project that might significantly and adversely affect water quality, other than those project changes required by this Order.
5. Within 30 days of receipt of any updated information, Ecology will determine if the revised project requires a new water quality certification and public notice or if a modification to this Order is required.
6. The Applicant shall keep copies of this Order on the job site and readily available for reference by Ecology personnel, the construction superintendent, construction managers and lead workers, and state and local government inspectors.

7. The Applicant shall provide access to the project site and all mitigation sites upon request by Ecology personnel for site inspections, monitoring, necessary data collection, and/or to ensure that conditions of this Order are being met.
8. Nothing in this Order waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Furthermore, Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if additional impacts due to project construction or operation are identified (*e.g.*, violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.
9. The Applicant shall ensure that all project engineers, contractors, and other workers at the project site with authority to direct work have read and understand relevant conditions of this Order and all permits, approvals, and documents referenced in this Order. The Applicant shall provide Ecology a signed statement (see Attachment A for an example) from each signatory that s/he has read and understands the conditions of this Order and the above-referenced permits, plans, documents and approvals. These statements shall be provided to Ecology before construction begins.
10. This Order does not authorize direct, indirect, permanent, or temporary impacts to waters of the state or related aquatic resources, except as specifically provided for in conditions of this Order.
11. Failure of any person or entity to comply with the Order may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Order.

#### **B. Notification Requirements**

1. Notification shall be made via phone or e-mail (e-mail is preferred) to Ecology's Federal Project Coordinator. Notifications shall be identified with Order No. 8961 and include the Applicants name, project name, project location, project contact and the contact's phone number.
  - a. Immediately following a violation of state water quality standards, spill to waters of the state or when the project is out of compliance with any of this Orders conditions.
    - i. In addition to the phone or e-mail notification, the Applicant shall submit a detailed written report to Ecology within five (5) days that describes the nature of the event, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of any samples taken, and any other pertinent information.
  - b. At least ten (10) days prior to all pre-construction meetings
  - c. At least ten (10) days prior to conducting initial in-water work activities for each in-water work window established in the most current HPA.

- d. At least seven (7) days prior to the start of over water bridge construction and bridge demolition activities.
- e. At least seven (7) days within project completion.

**C. Timing**

- 1. This Order is valid until the Applicant meets all its requirements and conditions.
- 2. In-water work is subject to a fishery closure window determined by Washington Department of Fish & Wildlife's Hydraulic Project Approval (HPA). All in-water work shall be completed within the work window identified in the most current HPA issued for this project.

**D. Water Quality Monitoring & Criteria**

- 1. This project is subject to the water quality standards and the criteria as described in WAC 173-201A-210, except as specifically modified by this Order.
- 2. This Order authorizes temporary turbidity mixing zones for the following activities per Table 1 and 2 below:

**Table 1 North River**

<b>Activity</b>	<b>Point of Compliance</b>
Pile Driving and Removal for Temporary Work Platform	300 ft down current
Installation and Removal of Temporary Outer Casings for New Bridge Pier Construction	300 ft down current
Removal of Existing Bridge Piles and Log Booms	300 ft down current
Riprap Placement Directly in Water	300 ft down current

**Table 2 Smith Creek**

<b>Activity</b>	<b>Point of Compliance</b>
Pile Driving and Removal for Temporary Detour Structure	300 ft down current
Pile Driving and Removal for Temporary Work Platform	300 ft down current

Installation and Removal of Temporary Outer Casings for New Bridge Pier Construction	300 ft down current
Removal of Existing Bridge Piles	300 ft down current
Riprap Placement Directly in Water	300 ft down current

3. The Applicant shall submit a Water Quality Monitoring and Protection Plan (WQMPP) to the Federal Project Coordinator for review and approval at least 20 days prior to beginning work activities below the ordinary high water line (OHWL), in-water and over-water. **Work is not authorized to begin until approval is received.** At a minimum, the WQMPP shall include:
  - a. The names(s) and phone numbers (s) of the Pollution control inspector and the person responsible for on-site monitoring and report;
  - b. The BMPs and procedures to be used to project water quality during specific proposed below the ordinary high water mark, in-water and over-water activities;
  - c. A water sampling plan for turbidity, visible sheen and pH, which include sample locations and frequency;
  - d. Sampling locations for turbidity shall include, but are not limited to; background, half the distance to the point of compliance and at the point of compliance, unless otherwise approved by Ecology.
  - e. A map with numbered or named sampling locations associated with the in-water work activities.
  - f. Contingencies during in-water work activities
4. Ecology must approve, in writing, any changes or additions to the WQMPP.
5. Monitoring results shall be submitted monthly to the Ecology Federal Project Coordinator, per condition A.2.
6. Mitigation and/or additional monitoring may be required if the monitoring results indicate that the water quality standards have not been met.

#### **E. Construction**

##### General Conditions

1. The Applicant shall comply with the conditions of the current Construction Stormwater Permit (National Pollutant Discharge Elimination System – NPDES) issued for this project.

2. Within the project limits<sup>1</sup> all environmentally sensitive areas including, but not limited to, wetlands, wetland buffers, and mitigation areas shall be fenced with high visibility construction (HVF) prior to commencing construction activities. Construction activities include equipment staging, materials storage, and work vehicle parking. *Note: This condition does not apply to activities such as pre-construction surveying and installing HVF and construction zone signage.*
  - a. If the project will be constructed in stages<sup>2</sup> a detailed description and drawings of the stages shall be sent to Ecology for review at least 20 days prior to placing HVF.
  - b. Condition 2.a. shall apply to each stage.
  - c. All field staff shall be trained to recognize HVF, understand its purpose and properly install it in the appropriate locations.
  - d. HVF shall be maintained until all work is completed for each project or each stage of a staged project.
3. All clearing limits, stockpiles, staging areas, and trees to be preserved shall clearly be marked prior to commencing construction activities and maintained until all work is completed for each project.
4. No petroleum products, fresh concrete, lime or concrete, chemicals, or other toxic or deleterious materials shall be allowed to enter waters of the state.
5. All construction debris, excess sediment, and other solid waste material shall be properly managed and disposed of in an upland disposal site approved by the appropriate regulatory authority.
6. Turbid de-watering water associated with in-water work shall not be discharged directly to waters of the state, including wetlands. Turbid de-watering water shall be routed to an upland area for on-site or off-site settling.
7. Clean de-watering water associated with in-water work that has been tested and confirmed to meet water quality standards may be discharged directly to waters of the state including wetlands. The discharge outfall method shall be designed and operated so as not to cause erosion or scour in the stream channel, banks, or vegetation.
8. All equipment being used below the ordinary high water mark shall utilize bio-degradable hydraulic fluid.

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<sup>1</sup> Project limits include mitigation sites, staging areas, borrow sources, and other sites developed or used to support project construction.

<sup>2</sup> A stage is part of a project that has been separated into at least two distinct areas to be built during separate timeframes.

Equipment & Maintenance

9. Staging areas will be located a minimum of 50 feet and, where practical, 200 feet, from waters of the state including wetlands. If a staging area must be located within 50 feet of waters of the state, then the Applicant shall provide a written explanation and obtain approval from Ecology's Federal Permit Coordinator before placing the staging area in the setback area.
10. Equipment used for this project shall be free of external petroleum-based products while used around the waters of the state, including wetlands. Accumulation of soils or debris shall be removed from the drive mechanisms (wheels, tires, tracks, etc.) and the undercarriage of equipment prior to its use around waters of the state, including wetlands.
11. No equipment shall enter, operate, be stored or parked within any sensitive area except as specifically provided for in this Order or allowed in the HPA.
12. Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills into state waters.
13. Wash water containing oils, grease, or other hazardous materials resulting from wash down of equipment or working areas shall not be discharged into state waters. The Applicant shall set up a designated area for washing down equipment.
14. A separate area shall be set aside, which does not have any possibility of draining to surface waters, for the wash-out of concrete delivery trucks, pumping equipment, and tools.
15. Barges shall not be allowed to ground-out during in-water construction.
16. Barges shall be swept, as necessary, and kept free of material that could be blown into water.

Bridge Construction and Demolition

17. No structural material may enter water of the state during bridge demolition activities.
18. During demolition, structures shall be removed from the banks, existing roads, or from adjacent bridges whenever possible. When necessary, equipment may operate below the OHWL, provided the work is consistent with the project's most recent HPA.
19. The Applicant shall minimize disturbance of vegetation when constructing the temporary work platforms for bridge construction and demolition activities.
20. Ground improvement activities for the new bridge shall not cause exceedence of water quality standards for turbidity.

21. All forms for concrete shall be completely sealed to prevent the possibility of fresh concrete entering waters of the state.
22. All concrete shall be completely cured prior to coming into contact with surface water.
23. Concrete process water shall not enter waters of the state, including groundwater. All concrete process/contact water shall be disposed of appropriately with no possible entry to state waters.
24. All excavated sediment shall be disposed upland in an approved disposal site.

#### Culvert Work & Stream Bypass

25. All culvert work shall be conducted in the dry or in isolation from stream flow.
26. Stream flow isolation work shall not scour the stream channel or banks of the water body in which the work is being done.
27. To minimize sediment releases into downstream water, water reintroduced to the channel shall be done gradually and at a rate not exceeding the normal stream flow.
28. Culverts shall be installed to avoid inlet scouring and prevent downstream bank erosion. (See the current WSDOT hydraulics manual for standards)
29. Fill associated with culvert installation shall be protected from erosion to the 100-year peak flow.

#### Bank Stabilization

30. Prior to returning stream flow to the de-watered work area, all proposed bank protection measures shall be in place.
31. Placement of rip-rap shall be conducted in compliance with water quality standards for turbidity, unless otherwise authorized by this Order, and WSDOT's *Standard Specifications for Road, Bridge, and Municipal Construction*.

#### Removal of Creosote Piles

32. Piles removed from the substrate shall be moved immediately from the water onto a barge or onto upland. The pile shall not be shaken, hosed off, left hanging to drip or any other action intended to clean or remove adhering material from the pile. All excavated piles shall be disposed of at an approved upland disposal site.
33. During pile removal, containment booms and absorbent sausage booms shall be placed around the perimeter of the work area to capture wood debris, oil, and other materials

from being released into marine waters. All debris that is collected shall be disposed upland in an approved disposal site.

34. If a barge is used to remove piles, the work surface on the barge deck shall include containment for piles and any liquid or sediment removed during pulling of the piling.
35. Water left in the containment on the barge shall not be discharged into waters of the state.

#### **F. Wetlands**

1. The Applicant shall mitigate wetland impacts as described in the *SR 105/Smith Creek and SR 105/North River Bridge Replacements Final Critical Areas Mitigation Report* (hereafter called the "Mitigation Plan") prepared by WSDOT SW Region and dated May 2012, or as modified by this Order or revised and approved by Ecology.
2. The Applicant shall submit any changes to the Mitigation Plan in writing to Ecology (see A.2) for review and approval before work begins.
3. The Applicant shall get review and written approval from Ecology of any plan changes required if problems arise during construction and planting of the wetland mitigation site.

#### **G. Emergency/Contingency Measures**

1. The Applicant shall develop and implement a spill prevention and containment plan for this project and shall have spill cleanup material available on site at all times during construction.
2. Work that is out of compliance with the provision of this Order, conditions causing distressed or dying fish, discharges of oil, fuel, or chemicals into state waters or onto land with a potential for entry into state waters, is prohibited. If such work, conditions, or discharges occur, the Applicant shall comply with WSDOT's most current Environmental Compliance Assurance Procedure for Construction Project and Activities, notify the Ecology Project Coordinator per condition B.1.a. and immediately take the following actions:
  - a. Cease operations at the location of the non-compliance.
  - b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage.
  - c. In the event of a discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible, taking precedence over normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials.

- d. Immediately notify Ecology's Regional Spill Response Office and the Washington State Department of Fish & Wildlife the nature and details of the problem, any actions taken to correct the problem, and any proposed changes in operation to prevent further problems.
  - e. Immediately notify the National Response Center at 1-800-424-8802, for actual spills to water only.
3. Notify Ecology's Regional Spill Response Office immediately if chemical containers (e.g. drums) are discovered on-site or any conditions present indicating disposal or burial of chemicals on-site that may impact surface water or ground water.

### **YOUR RIGHT TO APPEAL**

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do all of the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

### **ADDRESS AND LOCATION INFORMATION**

<b>Street Addresses</b>	<b>Mailing Addresses</b>
<b>Department of Ecology</b> Attn: Appeals Processing Desk 300 Desmond Drive SE Lacey, WA 98503	<b>Department of Ecology</b> Attn: Appeals Processing Desk PO Box 47608 Olympia, WA 98504-7608
<b>Pollution Control Hearings Board</b> 1111 Israel RD SW STE 301 Tumwater, WA 98501	<b>Pollution Control Hearings Board</b> PO Box 40903 Olympia, WA 98504-0903

### CONTACT INFORMATION

Please direct all questions about this Order to:

Kerry Carroll  
Department of Ecology  
P.O. Box 47600  
Olympia, WA 98503-7600  
360-407-7503  
Kstr461@ecy.wa.gov

### MORE INFORMATION

- **Pollution Control Hearings Board Website**  
[www.eho.wa.gov/Boards\\_PCHB.aspx](http://www.eho.wa.gov/Boards_PCHB.aspx)
- **Chapter 43.21B RCW - Environmental and Land Use Hearings Office – Pollution Control Hearings Board**  
<http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B>
- **Chapter 371-08 WAC – Practice And Procedure**  
<http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08>
- **Chapter 34.05 RCW – Administrative Procedure Act**  
<http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05>
- **Chapter 90.48 RCW – Water Pollution Control**  
<http://apps.leg.wa.gov/RCW/default.aspx?cite=90.48>
- **Chapter 173.204 Washington Administrative Code (WAC) Sediment Management Standards**  
<http://www.ecy.wa.gov/biblio/wac173204.html>
- **Chapter 173-200 WAC Water Quality Standards for Ground Waters of the State of Washington**  
<http://www.ecy.wa.gov/biblio/wac173200.html>
- **Chapter 173-201A WAC Water Quality Standards for Surface Waters of the State of Washington**  
<http://www.ecy.wa.gov/biblio/wac173201A.html>

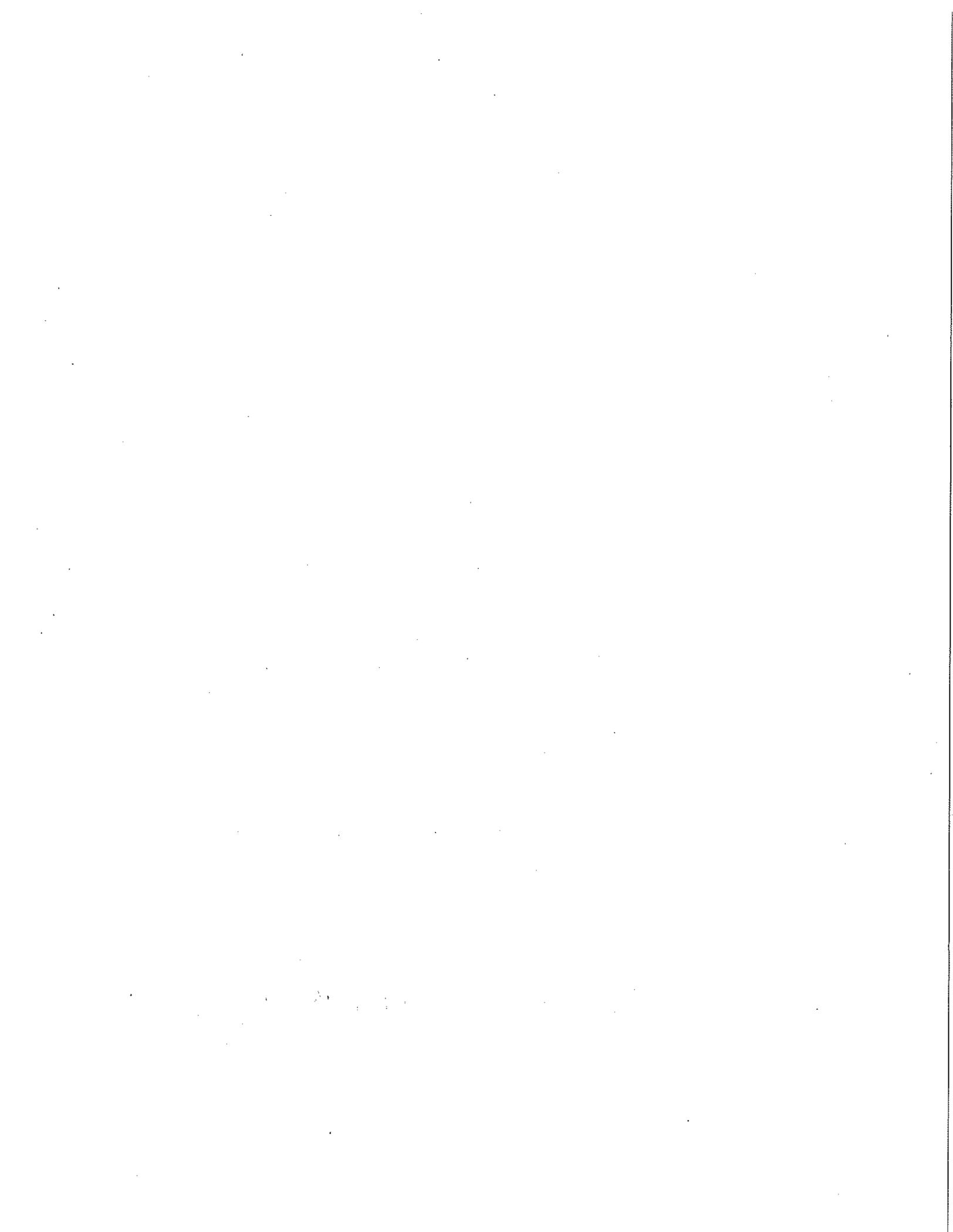
### SIGNATURE



Brenden McFarland, Section Manager  
Environmental Review and Transportation  
Shorelands and Environmental Assistance Program  
Headquarters

May 16, 2012

Date



Water Quality Certification Order #8961  
Statement of Understanding

I, \_\_\_\_\_, state that, I will be involved as a WSDOT employee or an agent or contractor for Washington State Department of Transportation in SR 105 North River and Smith Creek Bridge Replacement project in Pacific County, WA. I further state that I have read and understand the relevant conditions of Washington Department of Ecology **Water Quality Certification Order #8961** and the applicable permits and approvals referenced therein which pertain to the project-related work for which I am responsible.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company

\_\_\_\_\_  
Phone number

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, and Zip Code