



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

December 16, 2009

Tina Morehead
King County Department of Transportation
South Jackson Street
Seattle, WA 98104

RE: Water Quality Certification Order #7243 for Corps Public Notice No. NWS-2008-350 for the NE Novelty Hill Road project in King County, Washington.

Dear Ms. Morehead:

On February 5, 2009, the Department of Ecology (Ecology) received the King County Department of Transportation Road Services Division Joint Aquatic Resource Permit Application (JARPA) for a 401 Water Quality Certification (401 Certification) for the proposed the NE Novelty Hill Road Project. The project proposes to widen sections of Union Hill Road and Novelty Hill Road and construct a new section of roadway connecting 196th Ave to Novelty Hill Road. The project will impact 1.80 acres of wetland and will provide a total of 4.91 acres of compensatory wetland mitigation in the form of wetland creation and enhancement. The project is located in King County, WA. The U.S. Army Corps of Engineers issued a public notice for the project on April 10, 2009.

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

If you have any questions, please contact Rebekah Padgett, Federal Project Coordinator, at 425-649-7129 or at rp461@ecy.wa.gov. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,

Erik Stockdale, Unit Supervisor
Shorelands and Environmental Assistance Program
Department of Ecology

ES:rp
Enclosure

By Certified Mail #7007 0220 0004 6659 1696

e-cc: Jack Kennedy, Corps of Engineers
Karen Walters, Muckleshoot Tribe

ecyrefedpermit@ecy.wa.gov



IN THE MATTER OF GRANTING A) ORDER # 7243
WATER QUALITY) Corps Reference No. NWS-2008-350
CERTIFICATION TO) Construct one new mile long segment of
 King Co. Department of Transportation) roadway to extend 196th Ave to Novelty Hill
 in accordance with 33 U.S.C. 1341) Road, widen a quarter-mile section of Union Hill
 (FWPCA § 401), RCW 90.48.120, RCW) Road and widen a 3-mile stretch of Novelty Hill
 90.48.260 and Chapter 173-201A WAC) Road. The project is located in King County,
) Washington.
)

TO: Tina Morehead
 King County Dept of Transportation
 Road Services Division
 South Jackson Street
 Seattle, WA 98104

On February 5, 2009, Ecology received a Joint Aquatic Resources Permit Application (JARPA) from King County Department of Transportation requesting a 401 Water Quality Certification (WQC). The U.S. Army Corps of Engineers (Corps) issued a public notice for the project on April 10, 2009.

The proposed project entails the following road widening and construction activities:

- One quarter mile section of Union Hill Road will be widened from two lanes to four lanes, starting at 192nd Avenue and ending at 196th Avenue. The current bridge over Evans Creek in this section of the project will be replaced with a new bridge and new pedestrian and bicycle facilities will be constructed.
- One mile of new roadway will be constructed to connect 196th Avenue to Novelty Hill Road. At the connection point, a new intersection will be constructed and 196th Avenue will function as a north-south arterial connecting Union Hill Road and Novelty Hill Road. The new bridge will be constructed where the new roadway crosses Stensland Creek and Tributaries 08.0107 and 08.0107A and will be moved out of ditches on the east side of 196th Avenue and conveyed under the road in new culverts.
- Three miles of NE Novelty Hill Road will be widened from two lanes to four and five lanes starting at the new 196th Avenue intersection and ending at 234th Place NE.

Three stormwater facilities will be constructed to provide stormwater detention and water quality treatment. This project will permanently impact existing wetlands within the project limits. These impacts will be mitigated for at the Union Hill Terrace and Stensland Creek mitigation sites.

This project is located in King County, Washington, in the Cedar-Sammamish Watershed, WRIA 8.

<u>Section:</u>	<u>Township:</u>	<u>Range:</u>
03, 04, 05, 06, 07, 08, 09	25N	06E
26, 27, 28, 31, 32, 33, 34, 35	26N	06E

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, 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 meet the 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 the Applicant 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 shall absolve King County Department of Transportation from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments occurring as a result of project construction or operations.

A. General Conditions

1. For purposes of this Order, the term "Applicant" shall mean King County Department of Transportation and its agents, assignees and contractors.
2. For purposes of this Order, all submittals required as conditions shall be sent to Ecology's HQ, Attn: Federal Project Coordinator, P.O. Box 47600, Olympia, WA 98504-7600 or via e-mail (preferred), if possible, to the Coordinator assigned to this project. Notifications shall be made via phone or e-mail (preferred). All submittals and notifications shall be identified with Order No. 7243 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 February 5, 2009. The Applicant will be out of compliance with this Order and must reapply with an updated application if the information contained in the JARPA is voided by subsequent changes to the project not authorized by this Order.
4. Within 30 days of receipt of an updated JARPA, 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.
5. This Order shall be rescinded if the U.S. Corps of Engineers does not issue an individual Section 404 permit.
6. Copies of this Order shall be kept 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. Further, 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 they have read and understand 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 Conditions

For the purposes of this Order, all submittals required by its conditions shall be sent to Ecology's HQ, Attn: Penny Kelley, 401 Federal Project Coordinator/Transportation Liaison, P.O. Box 47600, Olympia WA 98504-7600. Any submittals shall reference Order 7243 and Corps Reference # NWS-2008-350.

1. Notification shall be made to Ecology's Federal Project Coordinator in accordance with condition B.1 for the following activities:
 - a. At least 10 days prior to the onset of any work on site;
 - b. At least 10 days prior to initial culvert or channel in-water work;
 - c. Immediately following a violation of the state water quality standards or conditions of this Order.

C. Wetlands Conditions

1. The Applicant shall mitigate wetland impacts as described in the NE Novelty Hill Road Project, Natural Resources Detailed Mitigation Plan prepared by King County Department of Transportation and dated June 4, 2009, and the Wetland Addendum dated October 21, 2009 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.
4. The Applicant shall have a wetland professional at the wetland mitigation site during construction and planting.

Implementation

5. Unless otherwise approved by Ecology in writing, the Applicant shall begin the compensatory mitigation project before, or concurrent with, impacting wetland before the impacts to wetlands occur or Ecology may require additional compensation to account for additional temporal loss of wetland functions.
6. If the mitigation site(s) cannot be completed within 13 months of the date of this Order, the Applicant shall inform Ecology of the status, in writing, for the NE Novelty Hill Road Project Lower Stensland Creek, Bear Evans Valley South and Union Hill Terrace with the reason for the delay and the expected date of completion.
7. The Applicant shall submit an updated written notification every 12 months thereafter until the NE Novelty Hill Road project and Lower Stensland Creek, Bear Evans Valley South and Union Hill Terrace sites are complete.
8. The Applicant shall ensure that all excess excavated site material is disposed of in an appropriate location outside of wetlands and their buffers at the wetland mitigation site and above the 100-year floodplain.
9. The Applicant shall ensure that no material is stockpiled within existing wetlands and their buffers at the wetland mitigation sites at any time, unless provided for in the Ecology-approved Mitigation Plan.
10. The Applicant shall ensure that construction debris is deposited within existing wetland and their buffers at the wetland mitigation site(s) at any time, unless provided for in the Ecology approved Mitigation Plan.
11. The Applicant shall not use Polyacrylamide on exposed or disturbed soil at the mitigation sites.
12. If seeding is used at the wetland mitigation site, the seed mix must contain native, annual, non-invasive plant species.
13. The Applicant shall place signs at the mitigation areas' boundaries, including buffers, every 100 feet to mark the area as wetland mitigation sites.
14. Upon completion of site-grading and prior to planting, the Applicant shall submit to Ecology written confirmation that the finished grades are consistent with the approved Mitigation Plan or subsequent Ecology-approved plan changes. Written confirmation can be in the form of a signed letter from the surveyor or project engineer indicating how final elevations were confirmed and whether those elevations are consistent with the Mitigation Plan.

15. Within 90 days of completing construction and planting of the mitigation site, the Applicant shall submit to Ecology (see A.2) one hard copy and one electronic file of the final as-built report including maps.

A. The as-built report must:

1. Document site conditions at Year Zero
2. Include the information listed in Attachment B (Information Required for as built Reports)
3. Include documentation of the recorded legal mechanism required in Condition 16.

16. Within 90 days of the date the Order was issued, the Applicant shall record a conservation easement for Lower Stensland Creek, Bear-Evans Valley South and Union Hill Terrace, a copy of this Order, and a site map indicating the location of mitigation sites(s) and their buffers. These documents must be recorded with the county Recording Office, Registrar of Deeds, or other official responsible for maintaining records for, or interest in, real property.

Monitoring and Maintenance

17. The Applicant shall water and maintain all mitigation site plantings so as to meet the Mitigation Plan's performance standards.

18. The Applicant shall monitor the mitigation site for a minimum of 10 years. The Applicant shall use the monitoring methods described in the Mitigation Plan.

19. The Applicant shall submit to Ecology (see A.2) one hard and one electronic copy of the monitoring reports and documenting mitigation site conditions for years 3,5,7,10.

20. At a minimum, the reports must contain the information in Attachment D (Information Required for Monitoring Reports). The Applicant shall submit the first monitoring report 12 months after completing the mitigation site construction and planting.

21. The Applicant shall implement the Mitigation Plan's contingency measures if the Mitigation Plan's goals, objectives, or performance standards are not being met.

22. Prior to implementing contingency measures not specified in the Mitigation Plan, the Applicant shall consult with and obtain written approval from Ecology for the changes.

23. When necessary to meet the performance standards, the Applicant shall replace dead or dying plants with the same species, or an appropriate native plant alternative, during the first available planting season and note species, numbers, and approximate locations of all replacement plants in the subsequent monitoring report.

- 24 For monitoring years five (5) and ten (10), the Applicant shall use the 1997 or updated versions of the Washington State Wetlands Identification and Delineation Manual to delineate all compensatory wetlands and include delineation information (e.g. data sheets, maps, etc.) in the monitoring reports.
- 25 At the end of the monitoring period, the Applicant shall use the August 2004 or updated version of Washington State Wetlands Rating System for Western Washington to rate all wetlands and include the information in the monitoring report.
- 26 If the Applicant has not met all conditions and performance standards for the mitigation site at the end of the monitoring period, Ecology may require additional monitoring, additional mitigation, or both.
27. Until the Applicant has received written notice from Ecology that the Mitigation Plan has been fully implemented, the Applicant's obligation under Condition C.1 to mitigate for wetland impacts is not met.

D. Construction Conditions

1. The Applicant shall obtain and comply with the conditions of the most current Construction Stormwater Permit (National Pollutant Discharge Elimination system (NPDES)) issued by Ecology for this project.
2. Within the project limits¹, all environmentally sensitive areas including, but not limited to, wetlands, wetland buffers, and mitigation areas shall be fenced with high visibility construction fence (HVF) prior to commencing construction activities. Construction activities include equipment staging², materials storage, and worker-vehicle parking.

**Note: This condition does not apply to activities such as pre-construction surveying and installing HVF and construction zone signage.
3. All clearing limits, stockpile³ sites, staging areas, and trees to be preserved shall be clearly marked prior to commencing construction activities and maintained until all work is completed for each project.
4. No equipment shall enter, operate, be stored or parked within any sensitive area except as specifically provided for in this Order.

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

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

³ A stockpile site or storage area is a location where large amounts of material are stored for future use on a project.

5. No petroleum products, fresh concrete, lime or concrete, chemicals or other toxic or deleterious materials shall be allowed to enter waters of the state.
6. All forms used for concrete shall be completely sealed to prevent the possibility of fresh concrete from entering into the stream.
7. All concrete shall be completely cured prior to coming into contact with state surface waters.
8. Concrete process water shall not enter surface waters of the state. Any contact water discharged from a confined area with curing concrete shall be routed to upland areas to be treated and infiltrated, or disposed of appropriately with no possible entry to state waters. 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.
9. Turbid de-watering water associated with in-water work shall not be discharged directly to waters of the state. Turbid de-watering water shall be routed to an upland area for on-site settling per the Construction Stormwater Permit for this project or off-site disposal. The discharge from the upland areas shall meet the water quality criteria at the point of discharge.
10. 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. The discharge outfall method shall be designed and operated so as not to cause erosion or scour in the stream channel, banks, or vegetation.
11. 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 the equipment prior to its use around waters of the state, including wetlands.
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. No cleaning solvents or chemicals used for tool or equipment cleaning may be discharged to the ground or to waters of the state.

15. 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.

E. Culvert Work:

1. All culvert work shall be conducted in the dry or in isolation from the stream flow. The stream diversion system shall be designed and operated so as to not cause erosion or scour in the stream channel or on the banks of the waterbody in which work is being conducted.
2. Prior to returning stream flow to the de-watered work area, all bank protection shall be completed.
3. Temporary sediment traps shall be cleaned out and the settled sediments removed from the stream channel before removing any stream diversion system and returning the flow of the stream to its natural channel. Settled sediments shall not be allowed to enter waters of the state, including wetlands, due to water or runoff flows that may occur during or after construction completed.
4. Reintroduction of water to the channel shall be done gradually and at a rate not higher than normal stream flow in order to minimize the mobilization of the sediments and fines into downstream waters.
5. Upon completion of the project, all materials used in the temporary bypass or other method work area isolation, shall be removed from the site and placed in an area approved by the appropriate regulatory authority.
6. Culverts shall be installed and maintained to avoid inlet scouring and to prevent erosion of stream banks downstream of the project.
7. Fill associated with culvert installation shall be protected from erosion to the 100 year peak flow.
8. Disturbance of the streambed and banks shall be limited to that necessary to replace the culvert and to construct any required channel modification associated with it. Affected streambed and bank areas outside the culvert shall be restored to pre-project or improved conditions following installation of the culvert. All disturbed stream bank areas shall be protected from temporary erosion using BMPs until stabilized by vegetation. At the end of each in-water work window for the construction season, all disturbed areas from culvert work shall be planted with native species within the next appropriate planting season.

F. Channel relocation/modification

1. New channel construction shall occur in isolation from stream flow.
2. Before water is diverted into the permanent new channel, all channel stabilization work and materials shall be in place.
3. Spoils from the new channel shall be placed in approved upland site. This material, if appropriate, may be used to fill the old channel once the diversion has been completed.
4. Within seven (7) calendar days of completing the channel work, all disturbed areas shall be protected from erosion using native vegetation or other means.

G. Timing Requirements

This Order is valid until all compliance requirements in this document have been met.

H. 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. Any work that is out of compliance with the provisions of this Order, or producing conditions that are causing distressed or dying fish, or causing any discharge of oil, fuel or chemicals into state waters, or onto land with a potential for entry into state waters is prohibited. If such work occurs, the Applicant shall immediately take the following actions:
 - a. Cease operations at the location of the violation;
 - 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 finding distressed or dying fish, collect fish specimens and water samples in the affected area within the first hour of the event. These samples shall be held in refrigeration or on ice until the Applicant receives further instructions from Ecology. Ecology may require analyses of these samples before allowing the work to resume;
 - d. 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. This work shall take precedence over normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials;
 - e. Immediately notify Ecology's Northwest Regional Spill Response Office at 425-649-7000 and Department of Fish and Wildlife of the nature of the

problem, any actions taken to correct the problem, and any proposed changes in operations to prevent further problems.
f. Immediately notify the National Response Center at 1-800424-8802 for spills to water.

3. If at any time, the Applicant finds buried chemical containers, such as drums, or any unusual conditions indicating disposal of chemicals, the Applicant shall immediately notify Ecology's Northwest Regional Spill Response Office at 425-649-7000.

I. Appeal Process

You have a right to appeal this Order. To appeal this you must:

- File your appeal with the Pollution Control Hearings Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours.
- Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). "Date of receipt" is defined at RCW 43.21B.001(2).

Be sure to do the following:

- Include a copy of this document that you are appealing with your Notice of Appeal.
- Serve and file your appeal in paper form; electronic copies are not accepted.

1. To file your appeal with the Pollution Control Hearings Board

Mail appeal to:

The Pollution Control Hearings Board
PO Box 40903
Olympia WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board
4224 - 6th Ave SE Rowe Six, Bldg 2
Lacey WA 98503

2. To serve your appeal on the Department of Ecology

Mail appeal to:

The Department of Ecology
Appeals & Application for Relief
Coordinator
PO Box 47608
Olympia WA 98504-7608

OR

Deliver your appeal in person to:

The Department of Ecology
Appeals & Application for Relief
Coordinator
300 Desmond Dr SE
Lacey WA 98503

3. And send a copy of your appeal to:

Rebekah Padgett
Department of Ecology
Northwest Region
3190-160th Ave SE
Bellevue, WA 98008-5452

For additional information visit the Environmental Hearings Office Website:

<http://www.eho.wa.gov>

To find laws and agency rules visit the Washington State Legislature Website:

<http://www.leg.wa.gov/CodeReviser>

Your appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320. These procedures are consistent with Ch. 43.21B RCW.

DATED 12/16/2009 at Bellevue, Washington.



Erik Stockdale, Unit Supervisor
SEA Program
Northwest Regional Office
State of Washington

Water Quality Certification Order #7243 Statement of Understanding

I, _____, state that I will be involved as a Washington State Department of Transportation (WSDOT) employee or an agent or contractor for WSDOT for the SR 9, Lundeen Parkway to SR 92 Widening Project, located in Marysville, Lake Stevens, and Snohomish County, Washington. I further state that I have read and understand the relevant conditions of Washington Department of Ecology's **Water Quality Certification Order #7243** 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

Attachment B
Information Required for As-built Reports
(See Condition C. 15)

NE Novelty Hill Road Project
Water Quality Certification Order # 7243
And
Corps Reference # NWS-2008-350

Background Information

- 1) Project name.
- 2) Ecology docket number and the Corps reference number.
- 3) Name and contact information for the parties responsible for the mitigation site including:
 - a) The applicant.
 - b) The landowner.
 - c) Wetland professional on site during construction of the compensatory mitigation site.
- 4) Name and contact information for the party responsible for preparing the report.
- 5) Who the report was prepared for (name, address, and phone number) *{if different from number 3 above.}*
- 6) Month and year the report was produced.

The Development (Impact) Site

- 7) Brief description of the development project (impact site). Include:
 - a) Directions to the site.
 - b) Month and year construction of the development project started and ended.
 - c) Area (acres) and type(s) (rating category, HGM classification, and Cowardin classification) of wetlands that were **actually** impacted by the development project, including temporary impacts.

The Compensatory Mitigation Project

- 8) Brief description of the **final** compensatory mitigation project with any changes from the approved plan made during construction. Include:
 - a) Directions to the site.
 - b) Who completed the compensatory mitigation project (name, address, and phone number).
 - c) **Actual** acreage and type(s) (re-establishment, rehabilitation, creation, enhancement, and preservation) of mitigation authorized to compensate for wetland impacts.
 - d) Important dates including:
 - i. Month and year the wetland impacts occurred.
 - ii. When work on the compensatory mitigation site began and ended.
 - iii. When different activities began and ended such as grading, removal of invasive plants, installing plants, and installing habitat features.
- 9) Description of any problems encountered and solutions implemented (with reasons for changes) during construction of the compensatory mitigation site.

- 10) Any changes to the goals, objectives, and performance standards of the compensatory mitigation project.
- 11) List of any follow-up actions needed, with a schedule.
- 12) Final site maps (8 1/2" x 11" or larger) of the compensatory mitigation site(s) including the following (at a minimum).
 - a) Geographic location of the site with landmarks;
 - b) Clear delineation of the project perimeter(s);
 - c) Topography (with a description of how elevations were determined);
 - d) Installed planting scheme (quantities, densities, sizes, and approximate locations of plants, as well as the source(s) of plant material);
 - e) Location of habitat features;
 - f) Location of permanent photo stations.

The final site maps should reflect on-the-ground conditions after the site work is completed. Include the month and year when the maps were produced and, if applicable, when information was collected.
- 13) Photographs of the site at as-built conditions taken from permanent photo stations. We recommend photo pans.
- 14) Copies of any records of deed notification or conservation easements.

Attachment D
Information Required for Monitoring Reports
(See Condition C.18)

NE Novelty Hill Road Project
Water Quality Certification Order # 7243
And
Corps Reference # NWS-2008-350

Ecology requires the following information for monitoring reports submitted under this Order. Ecology will accept additional information that may be required by other regulators.

Background Information

- 1) Project name.
- 2) Ecology docket number and Corps reference number.
- 3) Name and contact information of the parties responsible for the mitigation site, including:
 - a) The applicant.
 - b) The landowner.
- 4) Name and contact information for the party responsible for the monitoring activities and report.
- 5) Whom the report was prepared for (name, address, and phone number) *{if different from number 3 above}*.
- 6) Month and year the monitoring data were collected.
- 7) Month and year the report was produced.

Mitigation Project Information

- 8) Brief description of the mitigation project, including:
 - a) Directions to the site.
 - b) Acreage and type(s) (re-establishment, rehabilitation, creation, enhancement, and preservation) of mitigation authorized to compensate for wetland impacts.
- 9) Brief description of monitoring approach and methods.
- 10) A list of the goals and objectives for the mitigation project.
- 11) Summary table of monitoring data compared with performance standards. Using the monitoring data, describe how the site is developing toward goals and objectives and whether the project is in compliance with performance standards.
- 12) Summary (including dates) of management actions (maintenance, contingencies, and corrective actions) implemented at the site(s).
- 13) Summary of any difficulties or significant events that occurred on the site that may affect the ultimate success of the project.
- 14) Specific recommendations for any additional corrective actions or adaptive management with a time table.
- 15) Summary of any lessons learned.
- 16) Site maps (8 1/2" x 11" or larger) of the compensatory mitigation site(s) including the following (at a minimum). Include the month and year when the maps were produced and when information was collected.

- b) The geographic location of the site with landmarks.
 - c) Clear delineation of the project perimeter(s).
 - d) Species, numbers, and approximate locations of all replanted vegetation.
 - e) Location of habitat features.
 - f) Location of permanent photo stations and location of any other photos.
 - g) Location of sampling locations such as points, lines, or transects.
- 17) Photographs taken at permanent photo stations (and other photographs as needed) from the most recent monitoring visit, which are dated and clearly indicate the direction from which the photo was taken. We recommend photo pans.