



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
1250 W Alder St • Union Gap, WA 98903-0009 • (509) 575-2490

October 19, 2015

Methow Salmon Recovery Foundation
Mr. Chris Johnson
PO Box 755
Twisp, WA 98856

RE: Water Quality Certification Order No. 18141 for Corps Public Notice NWS-2015-492

Dear Mr. Johnson:

On June 2, 2015 Methow Salmon Recovery Foundation submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) requesting a Section 401 Water Quality Certification.

The Twisp River Floodplain project is a habitat restoration project. The project seeks to restore degraded habitat functions in the river channel, associated floodplain habitat, and wetland areas on the right bank of the Twisp River between River Mile 4.1 to River Mile 4.9. The project site is divided into two work areas, the upstream site and downstream site. The sites are west of Twisp, near Poorman Creek Cutoff Road in Okanogan County.

Four wetlands were identified within the project site, totaling 11.54 acres. Wetlands were labeled as Wetlands #1 through #4. Wetland #1, a Category I wetland is located in the upstream project area. Wetlands #2 through #4 are located in the downstream project area and were all rated as Category II wetlands.

At the upstream site, the project will remove irrigation diversions from Poorman Creek and the Twisp River; remove irrigation infrastructure, including wetland drainage features; add instream habitat structures; and replant riparian zones. The project will remove the irrigation pump-house, associated pipes, and drains from a degraded open water wetland area currently serving as a reregulating reservoir. Site restoration will include restoring natural grade within areas of the floodplain and wet meadows cleared for past agricultural use, removing and redistributing cobbles and soil placed along the margins of the Twisp River as flood control berms and partial removal of spoils berms from past wetland dredging to restore more natural conditions to the open water wetland area. Removing artificial fill and drain pipes from the Wetland #1 at the upstream site require excavation of approximately 30 cubic yards within wetland boundaries. Construction of engineered logjams in the outlet of Wetland #1 requires excavation to embed the logs with rootwads.

At the downstream site, the project will remove infrastructure associated with the MVID West diversion, reconnect isolated floodplain, and add structures designed to provide instream habitat. The project will remove MVID West diversion infrastructure, including the headgate, maintenance



Mr. Chris Johnson
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road, fish screen structure, and portions of the rock levee along the Twisp River. Reconnecting Wetlands #2 and #3, both Category I wetlands, will result in excavating approximately 20 cubic yards of material from within wetland boundaries. Removing placed fill from the existing access road through Wetland #3 requires excavation of approximately 10 cubic yards of placed gravel fill. In channel restoration actions will focus on restoring habitat complexity by placing seven wood structures and two boulder clusters within the active flow channel. Construction of engineered logjams in Wetland #4 requires excavation to embed the logs with rootwads.

The project proposes to create 1.2 acres of wetland habitat in areas currently identified as upland habitat and will restore surface flow connection to 4.8 acres of wetland currently isolated by levees and maintenance road fill. The project will restore a natural water budget to a 6.56 acre wetland. In total, this project has been developed to improve wetland function on 11.34 acres of wetlands and create an additional 1.2 acres of new wetland.

A public notice regarding the request was distributed by Ecology for the above-referenced project pursuant to the provisions of Chapter 173-225 WAC on September 10, 2015.

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.

If you have any questions, please contact Andrea Jedel at (509) 454-4260. The enclosed Order may be appealed by following the procedures described in the Order.

Sincerely,



Gary Graff, PWS
Regional Section Manager
Shorelands and Environmental Assistance Program

Enclosure

By certified mail: 7004 1160 0002 6158 1037

cc: Jess Jordan, U.S. Army Corps of Engineers (w/ enclosures)
Loree Randall – Ecology HQ
Mark Peterschmidt – Acting Ecology Central Regional Water Quality Unit Supervisor
Andrea Jedel – Ecology Central Regional Federal Permit Coordinator
Dwain Hutson
Ingrid Patterson
Carrie R Peterkin, c/o Christianson Ranch LLC

IN THE MATTER OF GRANTING A)	ORDER # 18141
WATER QUALITY)	Corps Reference No. NWS-2015-492
CERTIFICATION TO)	Twisp River Floodplain project, restore degraded
Methow Salmon Recovery Foundation)	habitat functions in the Twisp River channel,
in accordance with 33 U.S.C. 1341)	associated floodplain habitat and wetlands in
(FWPCA § 401), RCW 90.48.120, RCW)	Okanogan County, Washington.
90.48.260 and Chapter 173-201A WAC)	
)	
)	

TO: Methow Salmon Recovery Foundation
 Mr. Chris Johnson
 PO Box 755
 Twisp, WA 98856

On June 2, 2015 Methow Salmon Recovery Foundation submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) requesting a Section 401 Water Quality Certification. A public notice regarding the request was distributed by Ecology for the above-referenced project pursuant to the provisions Chapter 173-225 WAC on September 10, 2015.

The Twisp River Floodplain project is a habitat restoration project. The project seeks to restore degraded habitat functions in the river channel, associated floodplain habitat, and wetland areas on the right bank of the Twisp River between River Mile 4.1 to River Mile 4.9. The project site is divided into two work areas, the upstream site and downstream site. The sites are west of Twisp, near Poorman Creek Cutoff Road in Okanogan County. The upstream portion of the project site is located at Latitude 48.370278 N, Longitude -120.200 W. The downstream portion of the project site is located at Latitude 48.37 N, Longitude -120.193056 W.

Four wetlands were identified within the project site, totaling 11.54 acres. Wetlands were labeled as Wetlands #1 through #4. Wetland #1, a Category I wetland is located in the upstream project area. Wetlands #2 through #4 are located in the downstream project area and were all rated as Category II wetlands.

At the upstream site, the project will remove irrigation diversions from Poorman Creek and the Twisp River; remove irrigation infrastructure, including wetland drainage features; add instream habitat structures; and replant riparian zones. The project will remove the irrigation pump-house, associated pipes, and drains from a degraded open water wetland area currently serving as a reregulating reservoir. Site restoration will include restoring natural grade within areas of the floodplain and wet meadows cleared for past agricultural use, removing and redistributing cobbles and soil placed along the margins of the Twisp River as flood control berms and partial removal of spoils berms from past wetland dredging to restore more natural conditions to the open water wetland area. Removing artificial fill and drain pipes from the Wetland #1 at the upstream site require excavation of approximately 30 cubic yards within wetland boundaries.

Construction of engineered logjams in the outlet of Wetland #1 requires excavation to embed the logs with rootwads.

At the downstream site, the project will remove infrastructure associated with the MVID West diversion, reconnect isolated floodplain, and add structures designed to provide instream habitat. The project will remove MVID West diversion infrastructure, including the headgate, maintenance road, fish screen structure, and portions of the rock levee along the Twisp River. Reconnecting Wetlands #2 and #3, both Category I wetlands, will result in excavating approximately 20 cubic yards of material from within wetland boundaries. Removing placed fill from the existing access road through Wetland #3 requires excavation of approximately 10 cubic yards of placed gravel fill. In channel restoration actions will focus on restoring habitat complexity by placing seven wood structures and two boulder clusters within the active flow channel. Construction of engineered logjams in Wetland #4 requires excavation to embed the logs with rootwads.

The project proposes to create 1.2 acres of wetland habitat in areas currently identified as upland habitat and will restore surface flow connection to 4.8 acres of wetland currently isolated by levees and maintenance road fill. The project will restore a natural water budget to a 6.56 acre wetland. In total, this project has been developed to improve wetland function on 11.34 acres of wetlands and create an additional 1.2 acres of new wetland.

AUTHORITIES:

In exercising authority under 33 U.S.C. § 1341, 16 U.S.C. § 1456, RCW 90.48.120, and RCW 90.48.260, Ecology has examined 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 not violate

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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 standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification shall absolve the Applicant 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 Methow Salmon Recovery Foundation, and its agents, assignees and contractors.
2. All submittals required by this Order shall be sent by mail and electronically to Ecology's Central Regional Office, Attn: Andrea Jedel, Federal Permit Coordinator, SEA Program, 1250 W Alder Street, Union Gap, Washington 98903. The submittals shall be identified with Order No. 18141 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 2, 2015 unless otherwise authorized by Ecology. 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. 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 public notice and Certification or if a modification to this Order is required.
6. This Order does not exempt, and is provisional upon compliance with other statutes and codes administered by federal, state, and local agencies.

7. 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.
8. 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.
9. 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 or if additional conditions are necessary to further protect water quality.
10. In the event of changes or amendments to the state water quality, ground water quality, or sediment standards, or changes in or amendments to the state Water Pollution Control Act (RCW 90.48), or the federal Clean Water Act, Ecology will issue an administrative order to incorporate any such changes or amendments applicable to this project.
11. The Applicant shall ensure that all appropriate project engineers and contractors at the project site 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 project engineer and contractor 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 at the project.
12. 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.
13. 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.
14. This Order will automatically transfer to a new owner or operator if:
 - a. A written agreement between the Applicant and new owner or operator with the specific transfer date of the Order's obligations, coverage, and liability is submitted to Ecology per condition A.2.;
 - b. A copy of this Order is provided to the new owner or operator; and

- c. If Ecology does not notify the new Applicant that this Order must be modified to complete the transfer.

B. Water Quality

1. This Order does not authorize temporary exceedances of water quality standards beyond the limits established in WAC 173-201A-200 (1)(e)(i). Furthermore, nothing in this certification shall absolve the Applicants from liability for contamination and any subsequent cleanup of surface waters or sediments occurring as a result of project construction or operations.

C. Water Quality Monitoring

1. The Applicant shall submit a water quality monitoring plan to Ecology. This plan shall be approved by Ecology prior to any in-water work. The plan shall include at a minimum the following information:
 - a. Name and contact information of the person or firm responsible for monitoring;
 - b. Map of sample locations including background and point of compliance at or near the surface and bottom depths. For this project the point of compliance is a radius of 300 feet from the activity causing the turbidity exceedances;
 - c. Parameter(s) to be monitored: turbidity;
 - d. Sample method;
 - e. Frequency, and
 - f. Steps to be taken if monitoring results indicate an exceedance has occurred. The amount of the exceedance and the reason for the exceedance shall also be reported.
2. Turbidity monitoring reports shall be sent weekly by email to the Federal permit coordinator, per Condition A2. The permit coordinator shall be contacted within 24 hours if an exceedance occurs.

D. Construction Conditions

1. All work in and near the water shall be done so as to minimize turbidity, erosion, and other water quality impacts. Construction stormwater, sediment, and erosion control Best Management Practices (BMP's) suitable to prevent exceedances of state water quality standards shall be in place before starting clearing, filling and grading work and shall be maintained throughout construction.
2. The project shall be clearly marked/staked prior to construction. Clearing limits, travel corridors and stockpile sites shall be clearly marked. Sensitive areas and buffers that are to be protected from disturbance shall be marked so as to be clearly visible to equipment

operators. Equipment shall enter and operate within the marked clearing limits corridors and stockpile areas.

E. Wetland Mitigation and Monitoring

1. The Applicant shall mitigate wetland impacts as described in the *Twisp River Floodplain Riparian Buffer Establishment Site Plan* (hereafter called the "Mitigation Plan") prepared by Methow Salmon Recovery Foundation and dated August 2015 or as modified by this Order or revised and approved by Ecology.
2. Unless otherwise approved by Ecology in writing, the Applicant shall begin the compensatory mitigation project before, or concurrent with, impacting wetlands or Ecology may require additional compensation to account for additional temporal loss of wetland functions.
3. The Applicant shall ensure that no material is stockpiled within existing wetlands and their buffers at the wetland mitigation site(s) at any time, unless provided for in the Ecology-approved Mitigation Plan.
4. The Applicant shall ensure that no 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.
5. The Applicant shall not use polyacrylamide on exposed or disturbed soil at the mitigation site(s).
6. The Applicant shall not use hay or straw on exposed or disturbed soil at the mitigation site(s).
7. If weed-barrier fabric is used on the site, the Applicant shall use only permeable, fully biodegradable, non-toxic weed-barrier fabric for entire-site and/or individual plant weed control. Non-biodegradable plastic weed-barrier fabric shall be used only at the base of individual plants and shall be removed before it starts to break down, before it interferes with plant growth, or before the end of the monitoring period, whichever comes first.
8. If seeding is used at the wetland mitigation site, the seed mix must contain only native, annual, non-invasive plant species.
9. Within 30 days after completing construction and planting of the mitigation sites, the Applicant shall submit to Ecology an as-built report, including plan sheets, documenting site conditions at Year Zero (see Attachment B).

10. The Applicant shall monitor the mitigation site for a minimum of 3 years.
11. The Applicant shall submit to Ecology monitoring reports documenting mitigation site conditions for years 1, 2, and 3. Mitigation monitoring plans shall include the Applicant's name, project name, Order No. 18141, Corps Reference No. NWS-2015-492, project location, contact and contact's phone number (see Attachment C).
12. Be submitted by December 31 of each monitoring year. Include one hard copy and one electronic file.
13. 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.
14. If irrigation systems are used for watering mitigation plantings, the Applicant shall remove any and all irrigation system components at the earliest opportunity following the cessation of necessary irrigation. The applicant shall remove the irrigation system components before the growth of vegetation hampers the removal to minimize damage to the mitigation plantings. All irrigation components shall be removed prior to the end of the monitoring period.

E. Timing Requirements

1. This Order is valid until October 19, 2020.
2. All in-water work shall be completed by the work window identified in the most current Hydraulic Project Approval (HPA) issued by the Washington Department of Fish and Wildlife (WDFW) for this project. Any project change that requires a new or revised HPA should be sent to Ecology for review.

F. Notification Requirements

1. The Applicant shall provide written notification (email or mail) to Ecology's Central Regional Office Federal Permit Coordinator in writing at least 14 days prior to the start of construction, and within 7 days after completion of construction at the project site. Notification should be made using all the information required in Condition A2.

G. Emergency/Contingency Measures

1. The Applicant shall develop a spill prevention and containment plan for this project, and shall have spill cleanup materials and an emergency call list available on site.
2. Any work that is out of compliance with the provisions of this Order, or any discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state

waters, is prohibited. If these occur, the Applicant or operator shall immediately take the following actions:

- a. Cease operations that are causing the compliance problem.
 - 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 24-Hour Spill Response Team at 1-800-258-5990, the National Response Center at 1-800-424-8802 and within 24 hours of spills or other events Ecology's 401 Federal Permit Coordinator at (509) 454-4260.
 - e. 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.
3. Compliance with this condition does not relieve the Applicant from responsibility to maintain continuous compliance with the terms and conditions of this Order or the resulting liability from failure to comply.
 4. 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, including wetlands. No refueling of equipment shall occur over, or within 100 feet of creeks, rivers, lakes, or wetlands.
 5. If at any time during work the proponent finds buried chemical containers, such as drums, or any unusual conditions indicating disposal of chemicals, the proponent shall immediately notify Ecology using the above phone numbers.

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

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

CONTACT INFORMATION

Please direct all questions about this Order to:

Andrea Jedel
Department of Ecology
Central Region Office
1250 W Alder Street
Union Gap, WA 98903

(509) 454-4260
andrea.jedel@ecy.wa.gov

MORE INFORMATION

- **Pollution Control Hearings Board Website**
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>

Order #18141, Corps No.NWS-2015-492

Mr. Chris Johnson

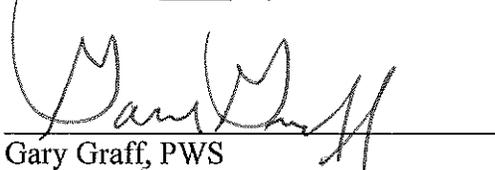
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- **Chapter 371-08 WAC – Practice And Procedure**
<http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08>
- **Chapter 34.05 RCW – Administrative Procedure Act**
<http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05>
- **Chapter 90.48 RCW – Water Pollution 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

DATED this 19 day of October, 2015, at Yakima, Washington.



Gary Graff, PWS

Regional Section Manager

Shorelands and Environmental Assistance Program

Central Regional Office – Ecology

State of Washington

Attachment A
Statement of Understanding
Water Quality Certification Conditions

Methow Salmon Recovery Foundation
Twisp River Floodplain Project
Water Quality Certification Order No. 18141
and
Corps Reference No. NWS-2015-492

I, _____, state that I will be involved as an agent or contractor for Methow Salmon Recovery Foundation in the site preparation and/or construction of the Twisp River Floodplain Project, located near Twisp, in Okanogan County, Washington. I further state that I have read and understand the relevant conditions of Washington Department of Ecology Water Quality Certification Order No. 18141 and the applicable permits and approvals referenced therein which pertain to the project-related work for which I am responsible.

Signature

Date

Title

Phone

Company

Attachment B

Information Required for As-built Reports

Methow Salmon Recovery Foundation
Water Quality Certification Order # 18141
And
Corps Reference # NWS-2015-492

Ecology requires the following information for as-built reports submitted under this Order. Ecology will accept additional information that may be required by other agencies.

Background Information

- 1) Project name.
- 2) Ecology Order number and the Corps reference number.
- 3) Name and contact information of the person preparing the as-built report. Also, if different from the person preparing the report, include the names of:
 - a) The applicant
 - b) The landowner
 - c) Wetland professional on site during construction of the mitigation site(s).
- 4) Date the report was produced.

Mitigation Project Information

- 5) Brief description of the final mitigation project with any changes from the approved plan made during construction. Include:
 - a) Important dates, including:
 - i. Start of project construction.
 - ii. When work on the mitigation site began and ended.
 - iii. When different activities such as grading, removal of invasive plants, installing plants, and installing habitat features began and ended.
- 6) Description of any problems encountered and solutions implemented (with reasons for changes) during construction of the mitigation site(s).
- 7) List of any follow-up actions needed, with a schedule.
- 8) Vicinity map showing the geographic location of the site(s) with landmarks.
- 9) Mitigation site map(s), 8-1/2" x 11" or larger, showing the following:
 - a) Boundary of the site(s).
 - b) Topography (with a description of how elevations were determined).
 - c) Installed planting scheme (quantities, densities, sizes, and approximate locations of plants, as well as the source(s) of plant material).
 - d) Location of habitat features.
 - e) Location of permanent photo stations and any other photos taken.Include the month and year when each map was produced or revised. The site map(s) should reflect on-the-ground conditions after the site work is completed.
- 10) Photographs taken at permanent photo stations and other photographs, as needed. Photos must be dated and clearly indicate the direction from which each photo was taken. Photo pans are recommended.

Attachment C

Information Required for Monitoring Reports

Methow Salmon Recovery Foundation
Ecology Order # 18141
And
Corps Reference # NWS-2015-492

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

Background Information

- 1) Project name.
- 2) Ecology Order number and the Corps reference number.
- 3) Name and contact information of the person preparing the monitoring report. Also, if different from the person preparing the report, include the names of:
 - a) The applicant
 - b) The landowner
 - c) The party responsible for the monitoring activities.
- 4) Dates the monitoring data were collected.
- 5) Date the report was produced.

Mitigation Project Information

- 6) Description of the monitoring approach and methods. For each performance standard being measured provide the following information:
 - a) Description of the sampling technique (e.g., monitoring point for soil or hydrology, line or point intercept method, ocular estimates in individually placed plots). If you are using a standardized technique, provide a reference for that method.
 - b) Size and shape of plots or transects.
 - c) Number of sampling locations and how you determined the number of sampling locations to use.
 - d) Percent of the mitigation area being sampled.
 - e) Locations of sampling (provide a map showing the locations), how you determined where to place the sampling locations (e.g., simple random sample), and whether they are permanent or temporary.
 - f) Schedule for sampling (how often and when).
 - g) Description of how the data was evaluated and analyzed.
- 7) Summary table(s) comparing performance standards with monitoring results and whether each standard has been met.
- 8) Discussion of how the monitoring data were used to determine whether the site(s) is meeting performance standards.

- 9) Goals and objectives and a discussion of whether the project is progressing toward achieving them.
- 10) Summary, including dates, of management actions implemented at the site(s), for example, maintenance and corrective actions.
- 11) Photographs taken at permanent photo stations and other photographs, as needed. Photos must be dated and clearly indicate the direction the camera is facing. Photo pans are recommended.
- 12) Vicinity map showing the geographic location of the site(s) with landmarks.
- 13) Mitigation site map(s), 8-1/2" x 11" or larger, showing the following:
 - a) Boundary of the site(s).
 - b) Location of permanent photo stations and any other photos taken.
 - c) Data sampling locations, such as points, plots, or transects.
 - d) Approximate locations of any replanted vegetation.