Exhibit G

Carmen-Smith Hydroelectric Project (FERC No. 2242)

November 2016 Amended and Restated Roads, Waste Areas, and Staging Areas Management Plan

Submitted by:

Eugene Water & Electric Board



November 2016 Amended and Restated Roads, Waste Areas, and Staging Areas Management Plan

Final Plan

Prepared for Eugene Water & Electric Board Eugene, Oregon

Prepared by
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Attachment A. Roads tables and photographs.

Attachment B. Road, Waste Areas, and Staging Areas Management Plan representatives.

Attachment C. Section 8.12 of the Carmen-Smith Settlement Agreement.

1 INTRODUCTION

The Eugene Water & Electric Board (EWEB) owns and operates the Carmen-Smith Hydroelectric Project (Project) under License No. 2242 from the Federal Energy Regulatory Commission (FERC). The Project is located on the upper McKenzie River in Linn and Lane Counties, Oregon. EWEB has developed this Roads, Waste Areas, and Staging Areas Management Plan (RWMP) to provide for implementation of actions for constructing, improving, managing, and maintaining roads, waste areas and construction staging areas during the term of the New License for the Project.

The specific actions EWEB shall implement in this RWMP were identified and developed based in part on the results of roads and waste area studies conducted by EWEB for the relicensing of the Project. EWEB developed these studies collaboratively with a Social Sciences Technical Subgroup (SSTS), comprised of many of the parties subsequently involved in the relicensing settlement negotiations. EWEB documented the results of the studies in the *Land Use and Management* technical report (Martha Goodavish Planning & Design and Stillwater Sciences 2006). The results of these studies guided the development of the roads and waste area actions proposed in EWEB's 2006 Final License Application ("FLA") to FERC (EWEB 2006). EWEB then developed this RWMP collaboratively with the other settlement parties during relicensing settlement negotiations that began in early 2007 and continued into 2008.

1.1 Relationship of this RWMP to Other Plans

This RWMP guides EWEB's construction, improvement, management, and maintenance of Project roads, geologic and vegetation waste areas, and construction staging areas. EWEB shall carry out this RWMP consistent with the performance standards in this RWMP. Because the roads, waste areas and construction staging areas will be located within many different resource areas, EWEB's implementation of this RWMP could affect or be affected by actions EWEB implements under other management plans including:

- Aquatics Management Plan
- Vegetation Management Plan
- Wildlife Management Plan
- Historic Properties Management Plan
- Recreation and Aesthetic Resources Management Plan
- Water Quality Management Plan
- Fire Response and Suppression Coordination Plan
- Transmission Line Management Plan

The first five management plans listed above are part of this Settlement Agreement. EWEB shall develop the final three management plans listed above in collaboration with the settlement parties after the November 2016 Amended and Restated Settlement Agreement is completed and consistent with the New License.

1.2 Areas Covered by this RWMP

This RWMP covers existing Project roads and United States Department of Agriculture Forest Service (USDA Forest Service) roads used for the Project and proposed roads to be used for the Project under the New License. Within this plan, roads are defined as including the road surface, the road base, drainage structures (ditches and culverts), signs, cut and fill slopes, and gates or other closure measures. This RWMP also covers geologic and vegetative waste areas that EWEB uses under the existing license, as well as new waste areas EWEB shall use under the New License. This RWMP also covers the EWEB staging area along Highway 126 (opposite Trail Bridge Dam) that EWEB has used under the existing license and new staging areas EWEB will need to develop for construction activities associated with the New License.

1.2.1 Roads covered by this RWMP

There are 45 roads used by EWEB and/or the public for Project access, operations, maintenance, and recreation under the existing license. A number of these roads are considered Project roads, occurring within the FERC Project Boundary (with several, including the Campground Loop Road and a number of transmission line access roads, occurring both within and outside the FERC Project Boundary). The remaining roads are outside the FERC Project Boundary; these are all USFS roads used by EWEB for Project access, operations, maintenance and by the public for Project-related recreation. Both the Project roads and the USDA Forest Service roads to be used for the Project under the New License are listed in Table 1 along with the Forest Road (FR) numbers for those roads for which USDA Forest Service has designated numbers.

Table 1-1. Project roads and USDA Forest Service roads to be used for the Project.

#	Forest road #	Common road name	Project road	USDA Forest Service road to be used for the Project
1	FR 2600750	Carmen Access Road	X	
2	FR 2600751	Carmen Dam Road	X	
3	FR 2600736	Bobby Creek Road		X
4	FR 2672655	Smith Ridge Road		X
5	FR 2672689	Smith High-level Road ¹		X
6	FR 2600730	Smith River Lo-level Road	X	
7	FR 2600730	Trail Bridge Campground Road	X	
8	FR 2600730	Connecting Road–Carmen Plant	X	
9	FR 2672692	Carmen Office Road X		
10	FR 2600733	Adit Road		X
11	FR 2600732	Trail Bridge Campground Loop Road	X	X
12	FR 2600731	Trail Bridge Boat Ramp	X	
13	FR 2672690	Power Plant Bypass Road		X
14	FR 2672687	Surge Chamber Road	X	
15	FR 2600713	Trail Bridge Access Road X		
16	FR 2600714	Trail Bridge Power Plant Road		
17	FR 2600710	Spawning Channel Access Road X		
18	FR 2600716	Trail Bridge Gauge Road	X	
19	N/A	Tower 7 Access Road	X	

#	Forest road #	Common road name	Project road	USDA Forest Service road to be used for the Project
20	FR 2655000	Fritz Wildcat Road		X
21	FR 2654000	Deer Creek Road		X
22	FR 2654782	Budworm Creek Road		X
23	FR 2650610	Frissell Creek Road		X
24	FR 2650000	Peggy Creek Road		X
25	FR 2655520	Tower 9–16 Access Road	X	
26	FR 2655521	Tower 17–18 Access Road	X	
27	FR 2654780	Two Point Road	X	X
28	N/A	Tower 29 Access Road	X	
29	FR 2650607	Tower 36–40 Access Road	X	X
30	FR 2600630	Tower 42 Access Road (Fish Ladder Rapids)		X
31	N/A	Tower 44–50 Access Road	X	
32	FR 2650618	Tower 51–54 Access Road	X	
33	FR 2650611	Dusty Road		X
34	FR 2650612	Tower 55 Access Road	X	
35	N/A	Tower 57 Access Road	X	
36	FR 2600280	North Bank Road		X
37	FR 2600275	Tower 93–99 Access Road	X	X
38	FR 2600263	Tower 100–102 Access Road	X	
39	FR 2600261	Tower 104–106 Access Road	X	
40	FR 2600705	Dump Road		X
41	FR 2600254	Tower Access Road		X
42	FR 2633000	Mill Creek Road		X
43	FR 2600258	Tower 107 Access Road		X
44	FR 2600252	Tower 108–115 Access Road	X	
45	N/A	Tower 131–132 Access Road	X	

¹ Includes road reconstruction and construction by EWEB under the New License to provide emergency Project access to Smith Dam.

EWEB conducted inventories of these roads in 2005 with the inventories including on-site evaluations of road conditions, associated signs, culverts, barriers, and gates. EWEB documented the findings of this road inventory work in the *Land Use and Management* technical report (Martha Goodavish Planning & Design and Stillwater Sciences 2006). These inventories provide the baseline information on road conditions that EWEB shall maintain and update during the term of the New License (Attachment A). See Figures 1-1 through 1-3 for the locations of Project roads and USFS roads to be used for the Project under the New License.

1.2.2 Waste areas covered by this RWMP

EWEB has used and maintained two waste management areas within the FERC Project Boundary under the existing license. In the FLA (EWEB 2006), EWEB proposed three additional waste areas within the FERC Project Boundary that EWEB would develop under the New License (Table 1-2). Under the New License, EWEB shall use one existing vegetative waste management area, located at the base of Smith Dam, to support the management of vegetative waste material

generated by the Project. EWEB shall reopen two vegetative waste areas—one below Carmen Diversion Dam on the east side of the McKenzie River and one below Trail Bridge Dam on the west side of the river to provide additional management capacity for vegetative waste material. The *Land Use and Management* technical report (Martha Goodavish Planning & Design and Stillwater Sciences 2006) provides a more detailed discussion of the two vegetative waste areas.

Under the existing license, EWEB managed geologic waste material along the Smith Lo-level Road (FR 2600730) and along the gated Adit Road (FR 2600733), located off of the Smith Lo-level Road. Under the New License, EWEB shall develop a new geologic waste management area in the transmission line right-of-way (ROW) between Towers 7 and 8, adjacent Trail Bridge Access Road (FR 2600713).

	Name	Location	Status under New License		
	Vegetative waste areas				
1	Carmen Dam	Below Carmen Diversion Dam, east side of river	Reopened		
2	Smith Dam	Below Smith Dam	Continued use		
3	Trail Bridge Dam	Below Trail Bridge Dam, west side of river	Reopened		
Geologic waste areas					
4	Adit Road (FR 2600733)	Off of Smith Lo-level Road (FR 2600730)	Closed for restoration (see Section 4.8)		
5	Trail Bridge Access Road (FR 2600713)	In transmission line ROW, between Towers 7 and 8	New		

Table 1-2. Vegetative and geologic waste areas.

1.2.3 Staging areas covered by this RWMP

Under the existing license, EWEB maintains a level, approximately one-acre staging area across Highway 126 from the Trail Bridge Dam. EWEB used this staging area for construction of Trail Bridge Reservoir and Dam, and subsequently for occasional construction, operations, and maintenance work. Most recently, EWEB used the area for staging during construction of the emergency spillway on Trail Bridge Dam in 2005. For the majority of time, EWEB does not use this area and it is available for dispersed recreational use by travelers on Highway 126. EWEB shall use this construction staging area under the New License.

2 PLANNING AND COORDINATION

The Parties agree to coordinate and to cooperate in implementation of this RWMP, including the provisions of Sections 2.2.2.1 and 2.2.2.2. Such coordination and cooperation will be assisted by creation of a permanent work group, the Roads, Waste Areas, and Staging Areas Management Plan Work Group ("RWWG"). EWEB shall convene the RWWG in accordance with Section 2.2.2 to discuss and to coordinate the road, waste areas, and staging management activities in this RWMP.

2.1 Roles and Responsibilities

The RWWG will function throughout the period of time the New License is in effect. The RWWG will include representatives from any interested Party including but not limited to EWEB and the United States Department of Agriculture Forest Service ("USDA Forest Service"). Each Party participating on the RWWG will designate at least one representative and an alternate to serve on the RWWG. The initial representatives and alternates are listed in Attachment B to this RWMP. Changes to the initial representatives or alternates listed in Attachment B will be made in accordance with the provisions of Section 8.12 of the Settlement Agreement (Attachment C).

EWEB is responsible for implementing this RWMP. The USDA Forest Service has approval authority over activities involving National Forest System ("NFS") lands.

2.1.1 In consultation with the RWWG members when appropriate, EWEB shall:

- Prepare all study, design, operating or implementation plans or reports necessary to implement this RWMP, consistent with Standard Construction Scheduling¹.
- Fund implementation of this RWMP.
- Conduct any necessary environmental analyses and obtain any required authorizations to implement this RWMP from federal, state and local governments.
- Implement and maintain all actions required under this RWMP.
- Monitor actions implemented under this RWMP to evaluate compliance with this RWMP including performance standards.
- Implement contingency actions when actions implemented under this RWMP do not achieve compliance with this RWMP including performance standards.
- Make required reports to the RWWG members and Federal Energy Regulatory Commission ("FERC") and other governmental entities, as appropriate.

¹ "Standard Construction Scheduling" means that EWEB will establish contractual construction schedule deadlines that are reasonably attainable by working normal 40-hour weeks. EWEB will require construction contractors to perform their work within normal working hours (Mondays through Fridays between the hours of 7 a.m. and 5 p.m.). EWEB will not require contractors to work overtime, extra shifts, or on national holidays as a baseline schedule assumption. EWEB will consider authorizing special work hour adjustment requests from a contractor on a case by case basis as necessary to accommodate fire season constraints, wildlife related restrictions, equipment/material delivery delays, or similar circumstances. EWEB's construction contract will include liquidated damage or other appropriate penalties for late completion of work if the causes are within the contractor's control as well as the right to require the use of overtime or additional work shifts if EWEB desires to accelerate the contractor's work.

- Make necessary updates or amendments to this RWMP after consultation with the other Parties and receipt of any necessary approvals, as described in Section 2.2.
- Assign a designated EWEB representative knowledgeable in roads, waste areas, and construction staging areas to the RWWG.
- Manage all temporary and permanent Project roads, temporary and permanent Project waste areas, and temporary and permanent Project staging areas in accordance with this RWMP.
- Maintain forest road and private road easements with the USDA Forest Service for use of non-Project roads on National Forest System (NFS) lands, including all obligations established by those easements.
- Coordinate and communicate with the USDA Forest Service during emergencies on Project roads, USDA Forest Service roads used by the Project, and at waste and staging areas.

2.1.2 USDA Forest Service will:

- Review and approve, as appropriate, any environmental compliance and permitting and other authorizations for RWMP actions on NFS lands.
- Issue required permits and authorizations for RWMP actions on NFS lands, which include activities within the McKenzie Wild and Scenic River corridor not otherwise included in the New License, consistent with 36 CFR 251 and other applicable laws.
- Assign a designated USDA Forest Service representative knowledgeable in roads, waste areas, and construction staging areas to the RWWG.
- Coordinate and communicate with EWEB during emergency road management needs on Project roads, USDA Forest Service roads used by the Project and waste and staging areas.
- Inform EWEB of changes in Forest Plan requirements that affect Project roads, waste areas and staging areas.
- Coordinate with EWEB on any changes or proposed changes to EWEB's forest road and private road easements for use of non-Project roads on NSF lands.
- Provide technical information on USDA Forest Service design, construction and maintenance requirements related to implementation of this RWMP.

2.1.3 Representatives of any Party may:

• Provide input to the RWWG members on activities under this RWMP.

2.2 Implementation, Coordination, and Approval

2.2.1 Implementation

EWEB shall implement and maintain the actions in this RWMP according to the timelines in this RWMP.

2.2.2 Coordination and approval

EWEB shall:

- Coordinate, consult with, and convene meetings of the RWWG.
- Convene a meeting of the RWWG at least annually. There may be times when a more
 frequent or less frequent schedule for convening meetings than annually will be necessary.
 Meetings will be scheduled less frequently than annually only with the consensus of the
 RWWG. For purposes of this RWMP, consensus means that any decision must be
 acceptable to, or not opposed by, all representatives of the members of the RWWG.
- Make best efforts to prepare and distribute to the RWWG members an agenda and all
 meeting materials at least fourteen days before each meeting.
- Prepare draft notes of each meeting including a list of attendees and meeting handouts, agreements or decisions made in the meeting and actions to be taken, provide the notes to the RWWG members for review and comment within a reasonable period of time, and provide to the RWWG members final notes that include the comments.
- Provide at least 30 days' written notice before each meeting unless unexpected circumstances require input from the RWWG members on shorter notice.

For annual meetings, EWEB shall convene the RWWG within the first quarter of each calendar year, unless EWEB determines it is appropriate to convene the annual meeting in a different quarter based on activities implemented under the New License. For any annual meeting, EWEB shall summarize the actions implemented under the RWMP for the previous calendar year and shall provide the summary to the RWWG members either in writing or by posting on EWEB's website. In the summary, EWEB shall also summarize the actions EWEB plans to implement under the RWMP for the current calendar year.

2.2.2.1 Consultation process

EWEB shall, where this RWMP requires consultation with the RWWG before EWEB files with FERC any study, operating or implementation plan, report, or facility design: (i) where specified in this RWMP, consult with the RWWG during the development of the draft study, plan, report, or design, (ii) provide the RWWG members with a copy of the draft study, operating or implementation plan, report, or facility design and all data supporting that draft study, operating or implementation plan, report, or facility design, and (iii) allow a minimum of 30 days (which EWEB may reasonably extend upon request of a member of the RWWG if needed to facilitate consultation) for the RWWG members to comment and to make recommendations, unless a different time period is established under the New License or this RWMP or is directed by FERC.

During the consultation period, EWEB shall convene at least one meeting of the RWWG to discuss the draft study, operating or implementation plan, report, or facility design and reach consensus and if consensus cannot be reached proceed as described below. EWEB shall provide to the RWWG members a final version of the study, operating or implementation plan, report, or facility design at the time that EWEB provides the final version of the document for approval pursuant to Section 2.2.2.2 below.

If a member of the RWWG does not respond to a request for consultation within 30 days, or as such period may have been extended, that member is not considered for purposes of obtaining consensus. If no members of the RWWG respond to the request for consultation within 30 days,

or as such period may have been extended, EWEB may file the study, operating or implementation plan, report, or facility design with FERC.

When consultation is required under this RWMP and consensus is not reached by the RWWG prior to the date EWEB is required to make a submission to FERC, EWEB shall make the submission to FERC according to the schedule provided in this RWMP or the New License, or as directed by FERC, and shall describe to FERC how EWEB's submission accommodates any comments and recommendations of the RWWG members. If EWEB's submission does not adopt a recommendation, the submission will include EWEB's reasons based on Project-specific information. EWEB shall provide FERC with a copy of any comments and recommendations provided by the RWWG members during the consultation. Any RWWG member may seek to resolve the consultation disagreement in accordance with the dispute resolution process in Section 7 of the Settlement Agreement. The RWWG members may submit their own comments to FERC. If applicable, once the dispute resolution process is completed, EWEB shall file the study, operating or implementation plan, report or facility design with FERC.

2.2.2.2 Agency approval process

Where this RWMP or the New License requires consultation with the RWWG and approval by one or more Governmental Parties, EWEB's submission of a study, operating or implementation plan, report, or facility design to the RWWG members will also constitute submission for approval to such Governmental Party, if a member of the RWWG. When approval of a Governmental Party is required, EWEB shall provide to the Governmental Party a final version of the study, operating or implementation plan, report, or facility design on which approval is sought. Unless a different time period is established in the New License or in this RWMP or is directed by FERC, EWEB shall, where approval by a Governmental Party is required, allow a minimum of 30 days for the Governmental Party to provide its approval before EWEB files any study, operating or implementation plan, report, or facility design with FERC. If consensus is achieved by the RWWG pursuant to Section 2.2.2.1, such approval shall be deemed to have been obtained. Each Governmental Party who is a member of the RWWG with approval authority will document its approval in writing to EWEB, which approval or approvals EWEB shall include in any filing with FERC. Unless otherwise required by the New License or this RWMP or directed by FERC, EWEB shall, if requested by any Governmental Party with approval authority, grant a 30-day extension for the completion of consultation. Any Governmental Party or Parties will endeavor to make approval decisions during consultation whenever possible.

If a Governmental Party does not respond to a request for approval within 30 days, or as such period may have been extended, the obligation for obtaining approval from that Governmental Party will be deemed to have been satisfied for purposes of meeting the requirements of the New License and this Settlement Agreement. If no Governmental Parties with approval authority respond to the request for approval within 30 days, or as such period may have been extended, EWEB may file the study, operating or implementation plan, report or facility design with FERC.

When approval of a Governmental Party is required under this RWMP and approval has not been provided, EWEB or the Governmental Party may seek to resolve the lack of approval in accordance with the dispute resolution process in Section 7 of the Settlement Agreement. If the dispute has not been resolved after the dispute resolution process outlined in Sections 7.1, 7.1.1, and 7.1.2 of the Settlement Agreement or approval has not been provided prior to the date that EWEB is required to make a submission to FERC, EWEB shall make the submission to FERC

according to the schedule provided in this RWMP or the New License, or as directed by FERC, and shall describe to FERC why approval was not provided. In such instance, the Governmental Party whose approval was required may submit its own explanation as to why approval was not provided. EWEB or the Governmental Party may seek to resolve the lack of approval in accordance with the dispute resolution process in Section 7 of the Settlement Agreement. If applicable, once the dispute resolution process is completed, EWEB shall file the study, operating or implementation plan, report or facility design with FERC. If resolution was not achieved through dispute resolution, then the Governmental Party may submit its own explanation as to why resolution was not achieved.

2.2.2.3 Expedited consultation and agency approval process

When consultation under Section 2.2.2.1 above or Governmental Party approval under Section 2.2.2.2 above is required and the time provided for consultation in Section 2.2.2.1 or approval in Section 2.2.2.2 is not reasonably available because EWEB must implement an action under the New License within a shorter period of time due to extraordinary circumstances beyond EWEB's reasonable control, EWEB shall provide notice to the Work Group and Governmental Party, as applicable, that: (a) an expedited consultation and approval process will occur within the time available, (b) the location, date and time for the process, (c) the subject for the process, and (d) why EWEB must take action within the shorter period of time. EWEB shall complete as much of the consultation and approval process as can occur in the time reasonably available before EWEB must implement the action. If consultation is not completed or an approval is not obtained within the time available, EWEB may implement the action to the extent allowed by law, but the Parties may still require that the consultation process in Section 2.2.2.1 above and the approval process in Section 2.2.2.2 above, as applicable, be completed after EWEB has implemented the action.

2.2.2.4 Consultation and Approval Process for Measures in the McKenzie Wild and Scenic River Corridor

Where this RWMP requires consultation with the FWG and approval or authorization by the USDA Forest Service for measures that will be undertaken in the McKenzie Wild and Scenic River corridor that FERC does not require in the New License, EWEB shall follow the consultation requirements described in Section 2.2.2.1 and the agency approval process described in 2.2.2.2.

Before initiating any habitat or ground-disturbing measures in the McKenzie Wild and Scenic River corridor located on NFS lands, EWEB shall obtain from the USDA Forest Service and file with the Commission any appropriate authorization for the occupancy and use of NFS lands for measures not otherwise included in the New License.

2.3 Periodic Plan Review and Revision

EWEB, in consultation with the RWWG and subject to approval by the USDA Forest Service, shall periodically review this RWMP to determine if revisions are needed. The first such review will occur no later than 5 years after New License issuance unless otherwise agreed to by consensus of the RWWG in consultation with the RWWG. Subsequent reviews will occur every 5 to 10 years after that time unless otherwise agreed to by consensus of the RWWG in consultation with the RWWG to determine if and what specific revisions are needed. EWEB shall summarize any needed revisions at a meeting of the RWWG, and 30 days prior to that meeting, distribute draft revisions to the RWWG for review. Based on discussion at the RWWG

meeting, EWEB shall develop a revised draft RWMP for review within 90 days after the meeting. EWEB shall provide all members of the RWWG an opportunity to review and to comment on, and to reach consensus on the revised draft RWMP in accordance with the procedures in Section 2.2.2.1 of this RWMP. Any RWWG member may seek to resolve a lack of consensus in accordance with the dispute resolution process in Section 7 of the Settlement Agreement. EWEB, in consultation with the RWWG and subject to approval by the USDA Forest Service, shall then prepare a final revised RWMP. If a required approval is not obtained, any RWWG member may seek to resolve the lack of approval in accordance with the dispute resolution process in Section 7 of the Settlement Agreement.

In submitting the final revised RWMP to FERC, EWEB shall also submit documentation of all RWWG and agency consultation, agency approvals, copies of comments and recommendations on the draft and revised RWMP, and specific descriptions of how the comments and recommendations were accommodated by the final revised RWMP. If EWEB does not adopt a recommendation, the filing shall include EWEB's reasons, based on project specific information.

Revisions to the RWMP will not be required to be implemented until EWEB is notified by the Commission that the revisions to the RWMP are approved. Upon Commission approval, EWEB shall implement the revised RWMP, including any changes required by the Commission.

EWEB may make minor (non-substantial) changes to this RWMP consistent with the provisions of Articles 2 and 3 of the New License, provided, however, that EWEB provides a minimum of 30 days advance notice of the minor changes to the RWWG (unless circumstances beyond the reasonable control of EWEB require shorter advance notice) and no member of the RWWG contends that the proposed changes are not minor. If any member of the RWWG objects that the proposed changes are not minor, EWEB shall proceed through the consultation process in 2.2.2.1 above for the proposed changes. If EWEB elects, the objection by the member of the RWWG that the proposed changes are not minor may also be considered during the consultation process.

3 OBJECTIVES

3.1 Objectives for Roads

EWEB shall:

- Maintain information on Project roads, temporary Project construction roads, and USDA
 Forest Service roads used for the Project in an information format similar to the
 information format in Attachment A.
- Meet requirements of the Forest Plan, as amended, and other applicable plans in existence at the time with regard to the construction, improvement, management and maintenance of Project roads and temporary Project roads within the FERC Project Boundary.
- Maintain forest road and private road easements with the USDA Forest Service for Project use of USDA Forest Service roads on NFS lands outside the FERC Project Boundary.

3.2 Objectives for Waste Areas and Staging Areas

EWEB shall:

- Maintain information on Project waste areas and staging areas and USDA Forest Service
 waste areas and staging areas used by EWEB for the Project, including temporary waste
 areas and staging areas, in an information format similar to the information format in
 Attachment A.
- Meet requirements of the Forest Plan, as amended and other applicable plans in the construction, improvement, management and maintenance of Project waste areas and staging areas within the FERC Project Boundary.
- Maintain easements or use agreements with the USDA Forest Service for Project use of
 waste areas and staging areas, including temporary waste and staging areas, on NFS lands
 outside the FERC Project Boundary.

4 ELEMENTS

4.1 Information Management for Roads, Waste Areas, and Staging Areas

EWEB shall maintain a database of Project roads and USDA Forest Service roads used for the Project, as well as of all geologic and vegetative waste areas used by EWEB for the Project, and staging areas used by EWEB for construction activities at the Project. EWEB shall obtain information needed for the database through activities associated with the other elements of this plan. Specifically, EWEB shall:

- Maintain information needed for construction, improvement, management and maintenance of roads, waste areas, and staging areas for the Project, including features both within and outside the FERC Project Boundary.
- Maintain information on Project road culverts that occur on fish-bearing watercourses.
- Maintain information on roadside vegetative conditions, including information on the location of endangered, threatened and sensitive species, invasive and noxious weeds, snags, and potential hazard trees.
- Maintain information on Scenic Integrity Objectives (SIO) along Project roads and road segments where special treatment of roadside vegetation is called for due to high visual sensitivity.
- Conduct an annual field inspection with the USDA Forest Service and available to other members of the RWWG of roads, waste areas and staging areas.

4.1.1 Post-implementation monitoring

EWEB, in consultation with the RWWG, shall review annually the information from the annual field inspection and other information in the database.

4.1.2 Performance standards

- EWEB shall develop and maintain roads information similar to the information in the *Land Use and Management* technical report and in the information format in Attachment A.
- EWEB shall develop and maintain information on waste areas including location and size of areas, approximate amount and type of material deposited, percent capacity, and Forest Plan management area designation.
- EWEB shall develop and maintain information on staging areas including location and size of areas, and Forest Plan management area designation.

4.1.3 Maintenance actions

- EWEB shall prepare revisions to the road, waste areas, and staging areas information as necessary following the annual inspection conducted under Subsection 4.1 above.
- EWEB shall distribute any proposed revisions to the information on roads, waste areas and staging areas to the RWWG and the USDA Forest Service and finalize the revisions in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.1.4 Timeline

EWEB shall review the road, waste area, and staging area information annually and propose any necessary revisions to the information as provided in Subsection 4.1.3 above.

4.2 Easements for Project Use of USDA Forest Service Roads

EWEB shall negotiate, enter and maintain easements with the USDA Forest Service for Project use of USDA Forest Service roads outside of the FERC Project Boundary. The type of USDA Forest Service easement to be entered by EWEB and the USDA Forest Service is based on the level of Project use of the road. Two categories of USDA Forest Service easements will be negotiated, entered and maintained between the USDA Forest Service and EWEB for the term of the New License: "Forest Road Easements" will be used to cover Project use of general USDA Forest Service roads that are used by EWEB for Project use, and by others, such as Deer Creek Road (FR 2654000); and "Private Road Easements" will be used to cover Project use of USDA Forest Service roads that are primarily or exclusively used by EWEB to access the Project, such as Tower 107 Access Road (FR 2600258) (Table 4-1).

Roads under a Roads under a private Forest Road # Forest Road Road name road easement easement FR 2600736 Bobby Creek Road X FR 2672655 Smith Ridge Road X FR 2672689 Smith High-level Road X FR 2600733 Adit Road X FR 2672690 Power Plant Bypass Road FR2655000 Fritz Wildcat Road X FR 2654000 Deer Creek Road X FR 2654782 8 Budworm Creek Road X 9 FR 2650610 Frissell Creek Road X 10 FR 2650000 Peggy Creek Road FR 2654780 Two Point Road 11 Tower 36–40 Access Road FR 2650607 12 X Tower 42 Access Road (Fish 13 FR 2600630 X Ladder Rapids) FR 2650611 14 **Dusty Road** X FR 2600280 North Bank Road 15 X FR 2600275 Tower 93–99 Access Road X 16 FR 2600705 Dump Road X 17 FR 2600254 18 Tower Access Road X X FR 2633000 Mill Creek Road 19 FR 2600258 Tower 107 Access Road X 20

Table 4-1. Easement category for Project use of USDA Forest Service roads.

4.2.1 Post-implementation monitoring

EWEB shall review the road easements annually with the USDA Forest Service.

4.2.2 Performance standards

• EWEB shall comply with the road easements.

EWEB shall provide its appropriate share of funding to the USDA Forest Service under the
forest road easements for the USDA Forest Service to maintain the USDA Forest Service
roads used by the Project and shall provide funding under the private road easements for
any USDA Forest Service Project roads that EWEB contracts with the USDA Forest
Service to maintain in the manner required by the Forest Plan, as amended.

4.2.3 Maintenance actions

EWEB shall negotiate and execute annually in advance of the road operating season an Annual Maintenance Plan with the USDA Forest Service consistent with the road easement(s). EWEB shall discuss and agree upon with the USDA Forest Service the program of maintenance to be done during the coming season. EWEB shall document the program of maintenance in the Annual Maintenance Plan.

4.2.4 Timeline

EWEB shall negotiate and execute the road easements with the USDA Forest Service within two years after FERC issuance of the New License.

4.3 Routine Road Maintenance

This section describes the routine road maintenance EWEB shall implement to maintain Project roads. Routine maintenance activities EWEB shall use include regular grading of the roadbed on gravel roads, clearing of roadside vegetation, cleaning of roadside ditches, management of hazard trees, and repair and replacement of road structures such as culverts, bridges, gates, signs, and barriers.

EWEB shall follow road maintenance requirements in the Forest Plan, as amended (USDA Forest Service 1990) and by subsequent documents including: the Northwest Forest Plan's Aquatic Conservation Strategy objectives, and standards and guidelines for the Riparian Reserve Management Emphasis Areas (USDA Forest Service and USDI Bureau of Land Management 1994). EWEB has primary responsibility for maintenance of the Project roads listed on Table 4-2, and shall either maintain the roads or contract with the USDA Forest Service to fund the USDA Forest Service performance of the maintenance.

#	Forest Road #	Project road name
1	FR 2600750	Carmen Access Road
2	FR 2600751	Carmen Dam Road
3	FR 2600730	Smith River Lo-level Road
4	FR 2600730	Trail Bridge Campground Road
5	FR 2600730	Connecting Road-Carmen Plant
6	FR 2672692	Carmen Office Road
7	FR 2600732	Trail Bridge Campground Loop Road
8	FR 2600731	Trail Bridge Boat Ramp
9	FR 2672687	Surge Chamber Road
10	FR 2600713	Trail Bridge Access Road
11	FR 2600714	Trail Bridge Power Plant Road
12	FR 2600710	Snawning Channel Access Road

Table 4-2. Project roads to be maintained by EWEB.

#	Forest Road #	Project road name
13	FR 2600716	Trail Bridge Gauge Road
14	N/A	Tower 7 Access Road
15	FR 2655520	Tower 9–16 Access Road
16	FR 2655521	Tower 17–18 Access Road
17	FR 2654780	Two Point Road
18	N/A	Tower 29 Access Road
19	FR 2650607	Tower 36–40 Access Road
20	N/A	Tower 44–50 Access Road
21	FR 2650618	Tower 51–54 Access Road
22	FR 2650612	Tower 55 Access Road
23	N/A	Tower 57 Access Road
24	FR 2600275	Tower 93–99 Access Road
25	FR 2600263	Tower 100–102 Access Road
26	FR 2600261	Tower 104–106 Access Road
27	FR 2600252	Tower 108–115 Access Road
28	N/A	Tower 113–132 Access Road

Specific requirements EWEB shall meet for routine road maintenance come primarily from the Forest Plan, as amended, standards and guidelines for road management within area 15 - Riparian Reserve (USDA Forest Service and USDI Bureau of Land Management 1994) and include as applied to Project roads:

- Prioritize upgrading of existing Project road culverts, bridges and other stream crossings based on consultation with the RWWG and subject to approval by the USDA Forest Service regarding the potential impact and ecological value of the riparian resources affected by the road.
- Upgrade culverts, bridges and stream crossings on existing Project roads to accommodate
 at least the 100-year flood, including associated bed load and debris, based on consultation
 with the RWWG and subject to approval by the USDA Forest Service.
- Minimize sediment delivery to streams when conducting routine road maintenance activities.
- Minimize disruption of natural hydrologic flow paths, including diversion of stream flow and interception of surface and subsurface flow when implementing routine road maintenance activities.
- Outslope Project roadways, except in cases where outsloping would increase sediment delivery to streams or where outsloping is infeasible or unsafe.
- Route road drainage away from potential unstable channels, fill and hill slopes.
- Restrict side casting as reasonably necessary to prevent the introduction of sediment to streams.
- Maintain stream crossings to prevent diversion of stream flow out of the channel and down the road in the event of crossing failure.
- Project roads, or portions there of, located within the viewshed of the Highway 126 Scenic Byway are designated in the Forest Plan, as amended, as Management Area 11F – Scenic-Retention Foreground. These roads are located near and around Trail Bridge Reservoir and are listed in Table 4-3. Under the 11F designation, EWEB shall clear vegetation from roadside zones using hand clearing techniques. EWEB shall consult with the RWWG and

subject to approval by the USDA Forest Service before implementing maintenance activities for these roads.

Table 4-3. Project roads within Management Area 11F- Scenic- Retention Foreground.

Forest Road #	Road name
FR 2600730	Trail Bridge Campground
FR 2600730	Connecting Road–Carmen Plant
FR 2600713	Trail Bridge Dam Road
FR 2600710	Spawning Channel Access Road
FR 2600692	Carmen Office Road
FR 2600732	Trail Bridge Campground Loop
FR 2600731	Trail Bridge Boat Ramp
FR 2600714	Trail Bridge Power Plant Road

4.3.1 Post-implementation monitoring

- EWEB shall conduct an annual inspection of Project roads as provided in Section 4.1 above.
- EWEB shall use information from the annual inspections to update road information, evaluate road activities for consistency with Forest Plan requirements, and identify activities for the coming year.
- The annual road inspections with the USDA Forest Service and RWWG will include identification of hazard trees that are within two tree lengths of a Project road. EWEB shall manage hazard trees identified during an inspection in accordance with the *Vegetation Management Plan* (Stillwater Sciences 2008a).
- If the USDA Forest Service requests, EWEB shall coordinate a site inspection of, or a
 meeting regarding, specific Project roads or road segments in addition to the annual
 inspection.

4.3.2 Performance standards

• The requirements of the Forest Plan, as amended (USDA Forest Service 1990), provide the performance standards to be met by EWEB in maintaining Project roads. Section 4.3 above sets forth the requirements from the Forest Plan that EWEB shall meet for maintenance of Project roads.

4.3.3 Maintenance actions

- If additional routine road maintenance actions are needed to comply with the performance standards in Subsection 4.3.2, EWEB shall implement such actions within one year.
- If EWEB reasonably anticipates that implementation of the additional routine road maintenance will take longer than one year, EWEB shall establish a longer timeline in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.3.4 Timeline

- EWEB shall comply with the planning and preparation aspects for routine road maintenance requirements within two years after New License issuance.
- EWEB shall comply with the road and feature improvements and reconstruction aspects of the routine road maintenance requirements within five years after New License issuance.

4.4 Emergency Road Maintenance

Emergency road maintenance will require rapid response by EWEB to road damage or blockage caused by storms, floods, fires or other emergencies that limit access to Project facilities or Project operations. Emergency procedures EWEB shall follow include:

- Provide safe access to the Project, and all Project features, as soon as reasonably possible.
- Prioritize access restoration based on needs, considering the safety and protection of Project features.
- Notify the USDA Forest Service and RWWG of emergency maintenance situations as soon as reasonably practicable, but no later than 24 hours following the event creating the emergency.
- Implement routine road maintenance in accordance with Section 4.3 above as soon as reasonably possible following the completion of emergency road maintenance.

4.4.1 Post-implementation monitoring

- EWEB shall include as part of the annual road inspection under Subsection 4.1 above, a
 site visit to any locations where EWEB conducted emergency road maintenance since the
 previous annual inspection. The site visit will allow the USDA Forest Service and RWWG
 members to review and comment on emergency and post-emergency actions taken by
 EWEB.
- If the USDA Forest Service requests, EWEB shall coordinate a site inspection of, or a meeting regarding, any location where EWEB conducted emergency road maintenance.

4.4.2 Performance standards

- Maintaining safe vehicular access to Project facilities at all times is the primary performance standard for emergency road maintenance.
- Following the completion of emergency road maintenance, the performance standard is the same as that for routine road maintenance in Subsection 4.3.2 above.

4.4.3 Maintenance actions

- If after the completion of emergency road maintenance, additional maintenance actions are needed to comply with the performance standards in Subsection 4.4.2, EWEB shall implement such actions within one year.
- If EWEB reasonably anticipates compliance that implementation of the additional maintenance actions will take longer than one year, then EWEB shall establish a longer timeline in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.4.4 Timeline

- EWEB shall perform emergency road maintenance activities as soon as reasonably
 possible during or following an emergency to restore safe road access to all Project
 facilities.
- Following the completion of emergency road maintenance, EWEB shall begin routine road maintenance as provided in Subsection 4.3 as soon as reasonably possible.

4.5 New and Temporary Road Construction

This section provides the procedures EWEB shall use for construction of new and temporary roads within the FERC Project Boundary. In all instances, EWEB shall give preference to using existing roads or to creating short temporary spurs from existing roads rather than constructing new roads. For new road construction activities EWEB shall consult with the RWWG subject to the approval of the USDA Forest Service. EWEB identified road construction to be performed under the New License in the FLA involving the realignment of the existing Smith High-Level Road (FR 2672689) from the Smith Ridge Road (FR 2672655) to Smith Dam (FR 2600730) in order to provide an alternate emergency access route to the top of Smith Dam. EWEB shall also need to develop new roads, under the New License for construction, operation and maintenance of upstream and downstream fish passage facilities, and potentially to access a new gage on the McKenzie River.

Realignment of Smith High-Level Road will require EWEB to construct about a one half-mile segment of new road. Smith High-Level Road is currently gated and signed at both the Smith Ridge Road and the Smith Lo-Level Road. EWEB shall gate and sign the new road segment at its terminus at the top of Smith Dam. EWEB shall design the new road segment the same as the existing High-Level Road, which is a single-lane road of native material. EWEB shall close the existing segment of the Smith High-Level Road (between the Smith Lo-Level Road and the new segment of the Smith High-Level Road) and rehabilitate the land involved to return its hydrologic function and to preclude recreational use.

Under the New License, EWEB shall develop new roads to provide access to portions of the upstream and downstream fish passage structures at Trail Bridge Reservoir for both construction, operation and maintenance purposes for the New License term. EWEB may also need to develop a road to access the proposed USGS gage on the lower Carmen Bypass reach of the McKenzie River (see Action 19 of the *Recreation and Aesthetic Resources Management Plan*; Martha Goodavish Planning & Design 2008). Because the location of the gage has yet to be determined, access requirements have not been evaluated. The addition of any permanent roads near the McKenzie River will require the closure and rehabilitation of an equal distance of existing roads, as required by the Northwest Forest Plan.

It is also likely that EWEB shall construct temporary roads at Trail Bridge Reservoir to accommodate portions of the fish passage construction. EWEB shall construct the temporary roads to appropriate specifications and close and remove the roads after fish passage construction is complete. See Subsection 4.6 below for road closure and restoration requirements.

EWEB may need to construct temporary roads to implement gravel augmentation and related activities within the lower Carmen Bypass Reach. EWEB shall keep all temporary roads as minimally invasive as reasonably practicable, and subject to cultural resource, botanical, and other required surveys. EWEB shall locate all access and staging areas on the east side of the McKenzie River. EWEB shall not construct any new permanent roads for gravel augmentation purposes. Some incidental tree removal may be needed to create the temporary access roads and staging areas. Any new temporary roads will remain on the terrace above the river, will not enter the inner gorge of the lower Carmen Bypass Reach, will not be observable from the river surface or bank, and will not cross any streams.

These temporary roads will be closed to public vehicular access except when opened for gravel augmentation activities, which are expected to last for between three to thirty days once every five to ten years. EWEB may reopen temporary access roads for use to meet the needs for gravel augmentation as described in the *Aquatics Management Plan* (Stillwater Sciences 2008b). Closure barriers will be constructed using natural materials. Between periods of use, temporary roads will be left in a self-maintaining condition that does not result in delivery of fine sediments to stream channels and could include appropriate water bar installation. Re-vegetation such as light scarification (1–3 inches deep) and seeding with native grass species will be conducted when determined appropriate by the USDA Forest Service, based on ground conditions and expected needs for future use, while allowing for possible future access for gravel augmentation efforts as needed.

For temporary and new road construction, EWEB shall follow the requirements of the Forest Plan (USDA Forest Service 1990) and subsequent documents including: the Northwest Forest Plan, Aquatic Conservation Strategy objectives, standards and guidelines for the Riparian Reserve Management Emphasis Areas (USDA Forest Service and USDI Bureau of Land Management 1994), and the *McKenzie Pass-Santiam Pass Scenic Byway Management Strategy* (USDA Forest Service 1992).

Specific protocols EWEB shall follow for new and temporary roads include:

- There will be no net increase in permanent roads on NFS lands within the Upper McKenzie Key Watershed (see Figures 1-1 through 1-4 for the location of the Upper McKenzie Watershed).
- In all instances, EWEB shall give preference to using existing roads or to creating short temporary spurs from existing roads rather than constructing new roads.
- For road construction activities, EWEB shall consult with the RWWG subject to approval by the USDA Forest Service.
- Avoid new road construction within Management Area (MA) 6d McKenzie Wild and Scenic River corridor (see Figures 1-1 and 1-2) unless all other options have been analyzed and judged infeasible or unreasonably costly.
- Document the analysis of road options and consult with the RWWG regarding the analysis subject to approval by the USDA Forest Service.
- Close an equal distance of existing roads when permanent new roads are constructed in the McKenzie Wild and Scenic River corridor.
- Avoid construction of new and temporary roads in or across wetlands to the extent reasonably practicable.

- Minimize new road locations in management areas of Riparian Reserves to the extent reasonably practicable.
- Consult with the USDA Forest Service on completing a watershed analyses (including appropriate geotechnical analyses) prior to construction of new roads in Riparian Reserves.
- Prepare road design criteria, elements, and standards to govern new and temporary road operation, maintenance and reconstruction in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Prepare operation and maintenance criteria that govern new and temporary road operation, maintenance, and management in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Prepare plans for signs, gates, and culverts on new and temporary roads in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Design roads, culverts, bridges and other stream crossings on new and temporary roads to accommodate at least the 100-year flood, including the associated bed load and debris.
- Design new and temporary roads with out-sloped roadway surfaces, except in cases where
 outsloping would increase sediment delivery to streams or where outsloping would be
 unfeasible or unsafe.
- Design road drainage away from potentially unstable channels, fills, and hill slopes.
- Design new and temporary roads to minimize sediment delivery to streams from roads.
- Design roads that improve and maintain fish passage at all road crossings of existing and potential fish-bearing streams.
- Design roads in a manner that restricts side casting on new and temporary roads as reasonably necessary to prevent the introduction of sediment to streams and reservoirs.
- For new and temporary road construction, minimize disruption of natural hydrologic flow paths, including diversion of stream flow and interception of surface and subsurface flow.
- Reconstruct new and temporary roads and associated drainage features that pose a substantial risk to Riparian Reserves resources.
- Prioritize reconstruction of new and temporary roads based on current and potential impact to riparian resources and ecological value of the riparian resources affected.
- Evaluate new and temporary roads for potential environmental impacts, including: threatened, endangered and sensitive wildlife species and habitat, cultural resources, visual resources and recreational opportunities.
- Once EWEB constructs new and temporary roads, follow the routine road maintenance requirements in Section 4.3 above.

4.5.1 Post-implementation monitoring

- EWEB shall include a site visit to temporary or new roads that are planned or under construction as part of the annual road inspection under Subsection 4.1 above. The site visit will allow for review of and comment on plans for new and temporary road construction proposed by EWEB.
- If the USDA Forest Service requests, EWEB shall coordinate a site visit of, or a meeting regarding, any location where EWEB proposes or is constructing a new or temporary road.

4.5.2 Performance standards

- The requirements of the Forest Plan, as amended (USDA Forest Service 1990, USDA Forest Service and USDI Bureau of Land Management 1994), provide the performance standards to be met by EWEB in constructing new and temporary roads.
- Once EWEB constructs a temporary or new road, the provisions for routine road maintenance in Subsection 4.3 above set forth the requirements from the Forest Plan for the maintenance of the new and temporary roads.

4.5.3 Maintenance actions

- If maintenance in addition to the routine road maintenance in Subsection 4.3 above is needed to comply with the performance standards in Subsection 4.5.2 above, EWEB shall implement such actions within one year.
- If EWEB reasonably anticipates that completion of the additional maintenance will take longer than one year, then EWEB shall establish a longer timeline in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.5.4 Timeline

 EWEB shall prepare plans for temporary and new road development for consultation with the RWWG and subject to approval by the USDA Forest Service three months prior to construction.

4.6 Road Closure and Restoration

EWEB shall close temporary roads used for construction access at the Project and other Project roads and restore the impacted landscape when the roads will no longer be needed for the Project during the term of the New License. In closing and restoring any temporary and other Project roads, EWEB shall:

- Develop road closure plans in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Prepare design criteria, elements, and standards to govern closure of roads in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Prepare monitoring and maintenance criteria that govern management of the closed roads in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.6.1 Post-implementation monitoring

- EWEB shall include, as part of an annual road inspection as provided in Subsection 4.1 above, a site visit to roads that are in the process of being closed and removed and a site visit two years after restoration work has been completed for such roads. The site visits will allow for the RWWG and USDA Forest Service to review and comment on restoration work proposed or carried out by EWEB.
- If the USDA Forest Service requests, EWEB shall coordinate a site visit of, or meeting regarding, any road that is in the process of being closed and removed and any location where a road has been closed and removed and the location restored.

4.6.2 Performance standards

• The Forest Plan, as amended (USDA Forest Service 1990, USDA Forest Service and USDI Bureau of Land Management 1994), provides the performance standards to be met by EWEB in closing and restoring Project roads and road segments.

4.6.3 Maintenance actions

- If additional actions are needed to comply with the performance standards in Subsection 4.6.2 above, EWEB shall implement such actions within one year.
- If EWEB reasonably anticipates that completion of the additional actions will take longer than one year, then EWEB shall establish a longer timeline in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.6.4 Timeline

 EWEB shall prepare plans for road closure and restoration work for consultation with the RWWG and subject to approval by the USDA Forest Service three months prior to commencement of road closure or restoration work.

4.7 Waste Area Management

EWEB uses a limited acreage of NFS land to store and manage vegetative and geologic waste material that is generated through Project construction, operation and maintenance activities. The current vegetative waste management site below Smith Dam is within the FERC Project Boundary, as is the historical geologic waste material disposal site along the Adit Road (Forest Road 2600733) located off of the Smith River Lo-level Road. Additional vegetative waste management areas to be used over the New License term are at Carmen Diversion and Trail Bridge Dams, both within the FERC Project Boundary. EWEB shall locate a new 0.2-ha (0.5-acre) geologic waste area in the transmission line right-of-way (within the FERC Project Boundary), adjacent to Forest Road 2600713, above Trail Bridge Dam.

EWEB shall negotiate and execute a separate use agreement with the USDA Forest Service for the designation and use of waste areas outside of the FERC Project Boundary for either vegetative or geologic waste materials. The terms of any such use agreement will be negotiated at the time of the agreement and will be applicable solely to the agreement to which they pertain.

Emergency waste disposal necessary to protect Project facilities and other resources may also occur during the term of the New License. EWEB shall propose procedures for designating and prescreening emergency locations for temporary material placement and storage in preplanning for emergency waste disposal.

EWEB shall include the following for waste area management:

• Waste area development plans, including design plans for temporary, emergency and permanent waste areas will include specifications for site buffers for fire protection; waste area design (size and form for structural stability and reduction in visibility from sensitive viewing locations) for stability and water quality protection; site grading for water runoff

and waste water retention; and weed prevention and management and vegetative screening for screening the waste area from sensitive viewing locations including the McKenzie River, Carmen Diversion Reservoir, Trail Bridge Reservoir, the McKenzie River National Recreation Trail, and Highway 126.

- Waste area routine maintenance procedures, including annual site inspections, clearing and
 maintenance of buffer areas, re-contouring or reshaping of the waste area to achieve the
 designed size and form of the waste area, re-grading to maintain site runoff and waste
 water retention capabilities, and landscape maintenance of vegetative screening.
- Waste area emergency maintenance procedures, potentially including, emergency grading
 or clearing to protect site buffers, water quality, structural integrity of the waste area, and
 vegetative screening.
- Waste area closure and rehabilitation plans, including site closure plans and specifications
 for final site grading; final waste area re-contouring and stabilization; development of site
 revegetation specifications, including identification of plant species to be planted and plant
 protection systems needed (gopher and deer protection); site maintenance specifications
 (watering, weeding, repair of damaged plant protection and replacement planting); and
 gating and signing of roads.
- Waste area monitoring and maintenance procedures following closure and completion of rehabilitation, including inspection of the site every five years, and implementation of any maintenance to maintain the site in its closed and rehabilitated state.

4.7.1 Post-implementation monitoring

- EWEB shall conduct annual inspections of Project waste areas as provided in Subsection 4.1 above.
- If the USDA Forest Service requests, EWEB shall coordinate a site visit of, or meeting regarding Project waste areas.
- EWEB shall annually review with the USDA Forest Service special use authorization applicable to any waste area.

4.7.2 Performance standards

• EWEB shall manage and maintain Project vegetation and geologic waste areas in a safe and reliable manner consistent with the requirements of the Forest Plan, as amended, and in accordance with the Intergovernmental Agreement (IGA) or Special Use Authorization (SUA), as applicable, for the lands occupied by each waste area.

4.7.3 Maintenance actions

- EWEB shall perform maintenance actions needed to achieve compliance with performance standards in Subsection 4.7.2 above within one year after identification of the action.
- If EWEB reasonably anticipates that completion of the maintenance actions will take longer than one year, EWEB shall establish a longer timeline in consultation with the RWWG and subject to approval by the USDA Forest Service.

4.7.4 Timeline

- Monitoring and maintenance of waste areas will begin within one year after New License issuance.
- For any new waste area proposed by EWEB, EWEB shall prepare plans for the waste area
 for consultation with the RWWG and subject to approval by the USDA Forest Service a
 minimum of three months prior to construction of the waste area.

4.8 Staging Area Management

EWEB has maintained a Project staging area located on the east side of Highway 126, across from Trail Bridge Dam, since Project construction. EWEB shall continue to maintain this staging area during the term of the New License. It is also likely that EWEB shall develop new staging areas for construction of fish passage at Trail Bridge Dam.

Specific procedures EWEB shall use for developing and maintaining construction staging areas are:

- Avoid construction of a staging area within Management Area (MA) 6d McKenzie Wild and Scenic River corridor (See Figures 1-1, 1-2).
- Avoid entirely construction of staging areas in or adjacent to wetlands.
- Design staging areas in consultation with the RWWG and subject to approval by the USDA Forest Service.
- Design staging areas to prevent the introduction of sediment to streams and reservoirs.
- Design staging areas to prevent the introduction of hazardous materials into hydrologic flow paths.
- Design staging areas to prevent the introduction of invasive and noxious weeds.
- Consult with the Oregon Department of Transportation for appropriate highway signage when staging areas are in use.
- Manage and maintain staging areas in a safe and reliable manner consistent with the
 requirements of the Forest Plan, as amended, and in accordance with the requirements of
 the IGA or SUA for the location of the staging area.
- Follow procedures below for reuse and rehabilitation of staging areas once construction activity is complete.

4.8.1 Post-implementation monitoring

- When not in use as a construction staging area, EWEB shall maintain the existing staging area located on the east side of Highway 126, across from Trail Bridge Dam, as a dispersed recreation site (as set forth in Subsection 7.2 of the *Recreation and Aesthetic Resources Management Plan*).
- EWEB shall rehabilitate staging areas by restoring native soil, grade and vegetation conditions in consultation with the RWWG and subject to approval by the USDA Forest Service when the staging areas are no longer needed for Project construction activities. Alternatively, in consultation with the RWWG and subject to approval by the USDA Forest Service, EWEB shall rehabilitate select staging areas for designated future use.

- EWEB shall consult with the RWWG and subject to approval of the USDA Forest Service
 prior to rehabilitating staging areas where future uses other than rehabilitation are planned.
- EWEB shall prevent the introduction of invasive and noxious weeds to rehabilitated areas.
- EWEB shall install gates and signs as necessary to protect the rehabilitation of the area.
- If staging areas are located in Management Area 11F Scenic- Retention Foreground (See Figures 1-1 and 1-2), EWEB shall restore staging areas in a manner that meets a High Scenic Integrity level. EWEB shall consult with the RWWG and subject to the approval of the USDA Forest Service when planning restoration of staging areas located in Management Area 11F. High scenic integrity refers to:
 - "...landscapes where the valued landscape character 'appears' intact. Deviations may be present but must repeat the form, line, color, texture, and pattern common to the landscape character so completely and at such a scale that they are not evident." (USDA Forest Service 1996).

4.8.2 Performance standards

• EWEB shall develop, manage and maintain staging areas in a safe and reliable manner that is consistent with the requirements of the Forest Plan, as amended, and in accordance with the requirements of the IGA or SUA for the location of each staging area.

4.8.3 Maintenance actions

EWEB shall complete routine maintenance of staging areas weekly during construction activities. EWEB shall include the following activities as part of the weekly routine maintenance:

- Collection and removal of trash and debris from staging areas and surrounding areas, especially in areas seen from the Scenic Byway, Trail Bridge Reservoir and Campground and the McKenzie River National Recreation Trail.
- In dry months, spraying of water on native soil areas where truck traffic and other activities generate fugitive dust.
- Inspection and repair or replacement of drainage and water quality protection features to ensure compliance with water quality protection standards.
- Inspections and maintenance, as necessary, of fuel and hazardous material storage areas.

4.8.4 Timeline

- EWEB shall notify the USDA Forest Service as soon as reasonably possible upon determination that the use of a construction staging area is necessary, but a minimum of one month prior to use.
- EWEB shall implement management and maintenance procedures immediately upon use of construction staging areas.
- EWEB shall complete routine maintenance on a weekly basis, at a minimum, during periods of construction activity.
- EWEB shall plan for rehabilitation of staging areas within one year after construction completion.
- EWEB shall complete the rehabilitation of staging areas within two years after construction completion.

5 REPORTING REQUIREMENTS

EWEB shall prepare an annual report regarding EWEB's implementation of this RWMP. EWEB shall provide a draft of the annual report to the RWWG for a 30-day comment period on the draft report. At the request of a RWWG member, EWEB shall extend the comment period for an additional 30 days. EWEB shall submit a final report and response to comments on the draft report to the Commission within 90 days after the end of the comment period. EWEB shall include, at a minimum, the following information in the annual report:

- 1. A summary of the actions that EWEB implemented during the previous calendar year.
- 2. A discussion of any substantial differences between the actions provided in this RWMP and the actions that EWEB implemented, including explanations for any substantial differences.
- 3. A summary of the actions EWEB plans to implement for the current calendar year.
- 4. A discussion of any substantial differences between the implementation schedule in this RWMP and the schedule for the actions EWEB plans to implement in the current calendar year, including an explanation for any substantial differences.
- 5. Documentation of consultation with the RWWG and approval by the agencies with approval authority regarding actions EWEB implemented under this RWMP in the previous calendar year.
- 6. Results of any monitoring that occurred during the previous calendar year, conclusions that EWEB draws from the monitoring results, and any changes to this RWMP EWEB proposes based on the monitoring results. EWEB shall consult with the RWWG and obtain any necessary approvals as provided in Sections 2.2.2.1, 2.2.2.2, 2.2.2.3, and 2.3 of this RWMP regarding any proposed changes to this RWMP based on the monitoring results.

6 REFERENCES CITED

Eugene Water & Electric Board. 2006. Carmen–Smith Hydroelectric Project, Final License Application. Prepared by Stillwater Sciences, Arcata, California for Eugene Water & Electric Board, Eugene, Oregon.

Martha Goodavish Planning & Design and Stillwater Sciences. 2006. Land use and management at the Carmen-Smith Hydroelectric Project, upper McKenzie River basin, Oregon. Final report. Prepared by Martha Goodavish Planning & Design, Walnut Creek, California, and Stillwater Sciences, Arcata, California for Eugene Water & Electric Board, Eugene, Oregon.

Martha Goodavish Planning & Design and Stillwater Sciences. 2008. Recreation and aesthetics management plan. Final plan. Prepared by Martha Goodavish Planning & Design, Walnut Creek, California, and Stillwater Sciences, Arcata, California for Eugene Water & Electric Board, Eugene, Oregon.

Stillwater Sciences. 2008a. Vegetation management plan. Final plan. Prepared by Stillwater Sciences, Arcata, California for Eugene Water & Electric Board, Eugene, Oregon.

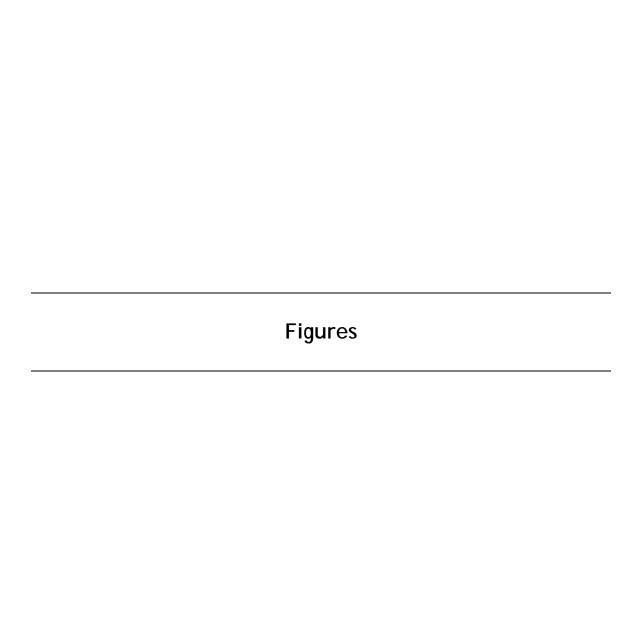
Stillwater Sciences. 2008b. Aquatics management plan. Final plan. Prepared by Stillwater Sciences, Arcata, California for Eugene Water & Electric Board, Eugene, Oregon.

USDA Forest Service. 1990. Willamette National Forest land and resource management plan. USDA Forest Service, Northwest Region, Eugene, Oregon

USDA Forest Service. 1992. McKenzie Pass - Santiam Pass Scenic Byway management strategy: Willamette and Deschutes National Forests. USDA Forest Service, Pacific Northwest Region.

USDA Forest Service. 1996. Landscape aesthetics, a handbook for scenery management. Agricultural Handbook Number 701.

USDA Forest Service and USDI Bureau of Land Management. 1994. Record of decision for amendments to Forest Service and Bureau of Land Management planning documents within the range of the northern spotted owl and Standards and guidelines for management of habitat for late-successional and old-growth forest related species within the range of the northern spotted owl.



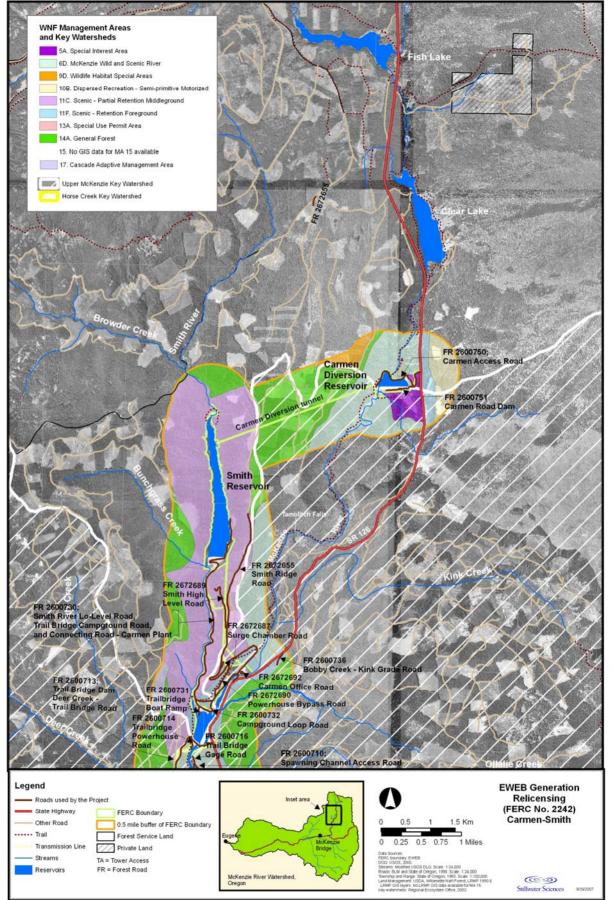


Figure 1-1. Project roads and USFS roads used by the Project,
WNF Management Areas and Key Watersheds. Tile 1 of 3.

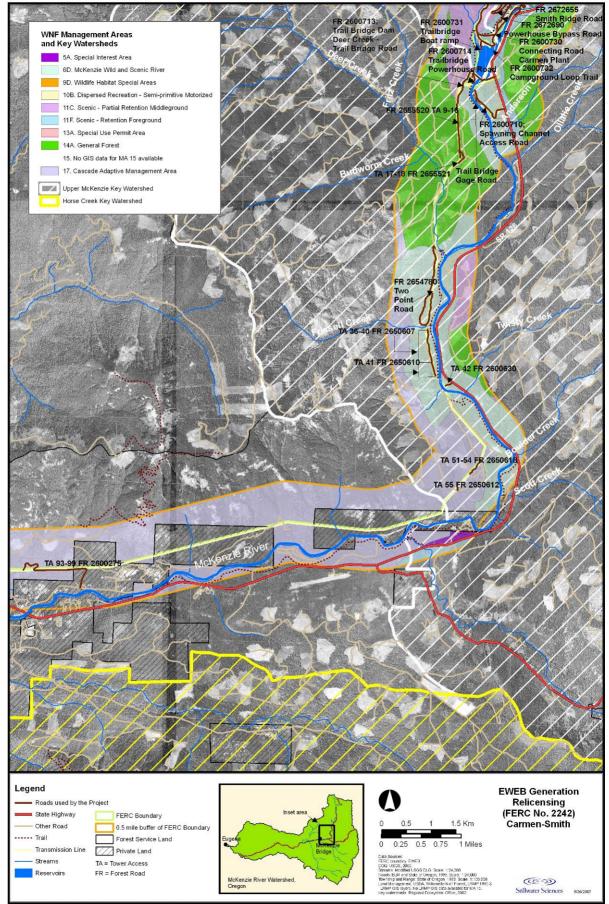


Figure 1-2. Project roads and USFS roads used by the Project,
WNF Management Areas and Key Watersheds. Tile 2 of 3.

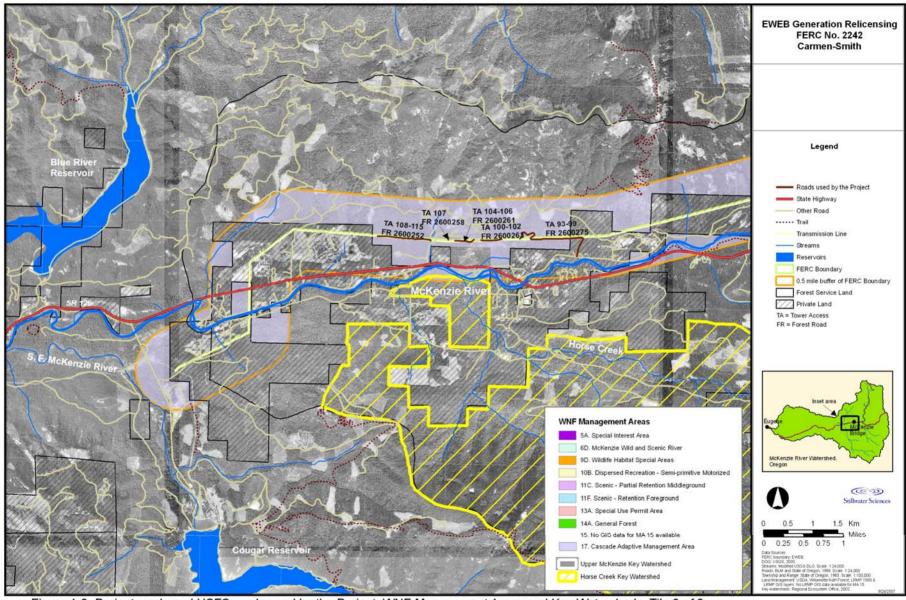


Figure 1-3. Project roads and USFS roads used by the Project, WNF Management Areas and Key Watersheds. Tile 3 of 3.





Table A-1. Road inventory.

WNF Forest Road #	Begin termini	End termini	Begin measure point	End measure point (miles)	Functional class ¹	Jurisdiction	Lanes	Obj. maint. level ²	Oper. maint. level ³	Route status ⁴	Service life ⁵	State - county	Surface type ⁶	Traffic service level ⁷	Common road name	Total length (miles)
2600750	Hwy 126	Sec 20	0	0.7	L	USDA FS	1	3	3	EX	С	OR - Linn	AGG	D	Carmen Access Road	0.7
2600751	2600750	Spillway Carmen	0	0.6*	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Carmen Dam Road	0.6
26600736		Hwy 126	0	0.1	L	USDA FS	1	2	2	EX	С	OR - Linn	NAT	D	Bobby Creek (to Kink Grade Disposal Site)	0.1
2600730	Hwy 126	Smith	0 0.24 2.60	0.24 2.60 3.6	L	USDA FS	2 1 1	4 3 2	4 3 2	EX	С	OR - Linn	AC AC AGG	В	Smith Lo- Level/Trail Bridge CG/ Connecting Road-Carmen Plant	3.6
2672692	2672655	2672692	0 0.065	0.065 0.107	L	USDA FS	1	4 2	4 2	EX	С	OR - Linn	AC AGG	С	Carmen Office Road	0.107
2600732	2600730	2600730 Trail	0	0.4	L	USDA FS	1	4	4	EX	С	OR - Linn	AGG	D	Campground Loop Road	0.4
2600731	2600732	Trail Bridge Reservoir	0	0.1	L	USDA FS	1	3	3	EX	С	OR - Linn	AGG	С	Trail Bridge Boat Ramp	0.1
2672655	2672	2600730	0 0.1	0.1 3.7	С	USDA FS	1	4 2	4 2	EX	С	OR - Linn	AC AGG	D	Smith Ridge Road	3.7
2672690	2672655		0	0.4	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Power Plant Bypass Road	0.4
2672687	2672655	Sec 1 to EWEB Tunnel	0	0.1**	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Surge Chamber Road	0.1
2600713	2600	2655	0	0.8	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Trail Bridge Dam/Deer Creek-TB Road	0.8
2600714	2600713	Sec 12	0	0.2	L	USDA FS	1	2	2	EX	С	OR - Linn	NAT	D	Trail Bridge Power Plant Road	0.2
2600710	126	Sec 11 South of Trail Bridge	0	0.6	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Spawning Channel Access Road	0.6
2600716	Hwy 126	Spawning Channel Road	0	0.04	L	USDA FS	1	2	2	EX	С	OR - Linn	NAT	D	Trail Bridge Gage Road	0.04

WNF Forest Road #	Begin termini	End termini	Begin measure point	End measure point (miles)	Functional class ¹	Jurisdiction	Lanes	Obj. maint. level ²	Oper. maint. level ³	Route status ⁴	Service life ⁵	State - county	Surface type ⁶	Traffic service level ⁷	Common road name	Total length (miles)
2672689	2672	Sec PB37	0	1.01	L	USDA FS	1	2	2	EX	С	OR - Linn	AGG	D	Smith High- Level Road	1.01
2655520	2655	Sec 14	0	0.7	L	USDA FS	1	2	2	EX	С	OR - Linn	NAT	D	Towers 9-16 Access Road	0.7
2655521	2655520	Sec 14	0	0.2	L	USDA FS	1	2	2	EX	С	OR - Linn	NAT	D	Towers 17-18 Access Road	0.2
2654780	2654000	Sec 26	0	1.6	L	USDA FS	1	2	2	EX	С	OR - Lane	AGG	D	Two Point Road	1.6
2650607	2650610	Sec 26	0	1.0	L	USDA FS	1	2	2	EX	С	OR - Lane	AGG	D	Towers 36-40 Access Road	1
2600630	2600000	Sec 35	0	0.1	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Fish Ladder Rapid Road	0.1
2650618	2650611	Sec 02	0	0.2	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Towers 51-54 Access Road	0.2
2650612	2650	Sec 02	0	0.05	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Tower 55 Access Road	0.05
2600275	2600280	Sec 14	0	1.29	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Towers 93-99 Access Road	1.29
2600263	2600705	Sec 14	0	0.3	L	USDA FS	1	2	2	EX	С	OR - Lane	AGG	D	Towers 100-102 Access Road	0.3
2600261	2600705	Sec 14	0	0.3	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Towers 104-106 Access Road	0.3
2600258	2600705	Sec 14	0	0.1	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Tower 107 Access Road	0.1
2600252	2600254	Sec 15	0	0.7	L	USDA FS	1	2	2	EX	С	OR - Lane	NAT	D	Towers 108-115 Access Road	0.7

^{*} End of mapped road (not to end of dam)

^{**} To concrete storage tank; another 205 feet of circular track access around tank

Functional class: L= Local, C= Collector

Objective maintenance level: 1=Basic custodial care (closed), 2=High clearance vehicles, 3=Suitable for passenger cars Operational maintenance level: 1= Basic custodial care (closed), 2=High clearance vehicles, 3=Suitable for passenger cars

Route status: EX= existing

Service life: C= long term service

Surface type: AC=asphalt/concrete, AGG= crushed aggregate or gravel, CSOIL= compacted soil, NAT= native material, P= paved Traffic service level: A=free-flowing mixed traffic, B=congested during heavy traffic, C=flow interrupted-use limited, D=slow flow or may be blocked

Table A-2. Gate inventory.

Category	ID-miles from start point	Development status ¹	Appraisal rating	Condition rating	Date last inspected	Remarks
pipe	2600751-0.28	EX	maintain	good	6/14/2005	has gate opening holder, 2 reflectors, no parking sign. Condition: some paint missing, otherwise good.
metal poles	2600730-2.6	Disposed	maintain	poor	6/18/2005	no gate present, thus non- functional as a gate
rail road tie	2672655-0.3	Disposed	maintain		6/17/2005	has eyelet; doesn't look like gate is in use
metal pipe	2600713-0.008	EX	maintain	good	6/19/2005	painted pipe; signs intact, some paint chipping
metal pipe	2600713-0.3	EX	maintain	good	6/19/2005	painted pipe; some paint chipping
metal pipe	2600710-0.1	EX	maintain	good	6/19/2005	painted green; some paint chipping but overall good
painted metal pipe	2672689-0.013	EX	maintain	good	6/19/2005	gate with 2 yellow road marker signs on each post, gate marker signs and regulation signs; portions of gate not painted; one gate marker sign has bb holes
painted metal pipe	2672689-1.0	EX	maintain	good	6/19/2005	gate marker signs (red and white stripe) on both sides of gate; some paint flaking on gate; one bb gun hole on inside sign
metal gate made of poles; wooden posts	Tower Access 9- 18-0.04	EX	maintain	good	6/20/2005	signs slightly scarred although overall good shape

Category	ID-miles from start point	Development status ¹	Appraisal rating	Condition rating	Date last inspected	Remarks
green metal poles with signs	2654780-0.017	EX	maintain	good	6/20/2005	some paint chipping
green metal pole	2650607-0.017	EX	repair	fair/critical	6/22/2005	EWEB lock jammed, does not work
green metal pole	2600275-0.05	EX	maintain	good	8/1/06	EWEB lock and others (likely Giustina Resources)
metal stock and pipes	2600252-0.7	EX	no	good	6/20/2005	

¹ Development status: EX= existing

Table A-3. Sign inventory.

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600750	0.03	right	N/A	snow marker	18x16	metal/steel pole	none	6/14/2005	white metal plate with circular reflector; condition: plate has bullet holes; reflector 1/2 gone; pole paint faded and flaking
2600750	0.17	right	N/A	snow marker	18x16	metal/steel pole	none	6/14/2005	condition: plate bent, reflector missing; red paint in fair condition; metal plate in good condition
2600750	0.17	left	N/A	snow marker	18x16	metal/steel pole	none	6/14/2005	condition: reflector missing
2600750	0.35	left	a) Carmen Diversion Boat Launching Ramp; Constructed by EWEB Administered by WNF; b) No motors on this reservoir	info	a) 66x28 b) 28x10	2 wooden 6x6s	wood	6/14/2005	condition: fair to poor; paint flaking; distorting image; chips in wood
2600750	0.39	right	Load limit 15 tons designated for HS- 15-44	reg	16x12	steel pole	none	6/14/2005	metal painted sign
2600750	0.39	left	a) trail symbol (2); b) arrow (2)	info	a) 8x8, 12x12; b) 12x6, 12x6	4x4 wood post	none	6/14/2005	a) painted metal sign; b) carsonite/other/plastic composite; condition: a) bb gun holes; b) bb gun holes
2600750	0.41	right	Load limit 15 tons designated for HS- 15-44	reg	16x12	wooden support 10x3	none	6/14/2005	posted on end of bridge railing
2600750	0.41	right	N/A	snow marker	18x16	metal/steel pole	none	6/14/2005	condition: plate torn; bb gun holes; reflector missing
2600750	0.41	left	N/A	snow marker	18x16	metal/steel pole	none	6/14/2005	condition: bent and torn plate; reflector missing; pole paint flaking

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600750	0.49	right	a) trail symbol; b) arrow	info	a) 12x12; b) 12x6	4x4 wood post	none	6/14/2005	a) plywood coated; b) composite plastic/carsonite
2600751	0.1	right	Carmen Reservoir - no camping	info	34x24	4x4 wood post	none	6/14/2005	condition: fair; post leaning and split border flaking off
2600751	0.27	right	Beaver Marsh Trail	info	24x10.5	4x4 wood post	none	6/14/2005	condition: fair; weathering caused to darken, hard to read
2600751	0.37	left	Viewing platform	info	24x48 (3 panels)	wood platform	none	6/14/2005	condition: good
2600751	0.003 (17 ft)	left and right (2 signs)	N/A	reflector	3x12	steel poles (2)	none	6/14/2005	white metal reflective plate; condition: a) good; b) poor; post bent
2600751	0.003 (21 ft)	left	a) Carmen River Reservoir with arrow; b) Carmen River Reservoir with arrow; c) stop sign	a) info; b) info; c) warn	a) 72x18; b) 72x18; c) standard	4x6 wood post	none	6/14/2005	a) coated wood metal; b) coated wood metal
2600751	0.009 (47 ft)	left and right (2 signs)	N/A	reflector	3x12	steel poles (2)	none	6/14/2005	condition: a) poor; b) fair
2600751	0.09	left	N/A	snow marker	6x18	steel pole	none	6/14/2005	snow post with reflector; white metal plate; condition: fair; no reflector, plate bent
2600751	0.11	right	N/A	snow marker	6x18	steel pole	none	6/14/2005	condition: poor; plate oriented off of road, no reflector
2600751	0.17	right	N/A	snow marker	6x18	steel pole	none	6/14/2005	condition: poor; bent, no reflector
2600751	0.23	left and right (2 signs)	N/A	snow marker	6x18	steel pole	none	6/14/2005	condition: poor; both signs facing wrong direction

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600751	0.25	right	N/A	snow marker	6x18	steel pole	none	6/14/2005	condition: critical; white plate crumpled, hazardous, red metal post missing
N/A (Bobby Creek)	0.03	right	N/A	road marker	12x3	carsonite post	none	6/14/2005	reflective strip
N/A (Bobby Creek)	0.03	right	N/A	road marker	12x3	carsonite post	none	6/14/2005	reflective strip
2600730	0.002 (11 ft)	left	stop	warn	standard	4x4 wood post	none	6/18/2005	condition: good
2600730	0.008 (44 ft)	left	a) EWEB Carmen Smith Project FERC 2242; b) Anglers regulatory sign	a) info; b) reg	a) 42x52; b) 10x10	two 4x4 wood posts	none	6/18/2005	a) metal coated; b) yellow laminate; condition: both good
2600730	0.02	right	N/A	Unknown	unknown	54 in. metal	none	6/18/2005	condition: critical; sign missing; should be replaced or pole removed; pole slanted, wires twisted into notches
2600730	0.02	right	2600 730	Info	5x9	wood post	none	6/18/2005	painted plywood; condition: fair; slightly obstructed by vegetation
2600730	0.09	left	a) Anglers, you are in Bull Trout Territory! If you don't know, be safe and let it go; b) Anglers Trail Bridge Reservoir (fishing regulations)	a) info; b) reg	a) 48x48; b) 10x10	two 4x4 wood posts	none	6/18/2005	a) metal coated; b) yellow laminate; condition: both good
2600730	0.09	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	condition: fair, red paint missing
2600730	0.09	right	Narrow bridge	Warn	24x24	metal pole	none	6/18/2005	painted on plywood; attached to pole on bridge; condition: good, some yellow paint peeling

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	0.13	left	Narrow bridge	Warn	24x24	metal pole	none	6/18/2005	condition: good
2600730	0.13	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	condition: poor, reflector missing, white plate bent, red paint peeling
2600730	0.13	right	No fishing from bridge	warn, reg	14x14	street lamp post	none	6/18/2005	green coated metal; condition: good
2600730	0.13	right	a) Trail Bridge - 1/2 Smith River Reservoir - 3; b) 2600730; c) arrow sign	Info	a) 69x20; b) 12x9; c) 10x8	two 4x4 wood posts	none	6/18/2005	condition: poor, paint peeling
2600730	0.15	right	a) one lane traffic; b) speed 10	a) warn; b) reg	a) 30x30; b) 24x30	4x4 wood post	none	6/18/2005	a) fair, sign bent, faded by sun; b) good
2600730	0.16	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	0.17	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	0.2	right	N/A	Snow marker	6x18	metal pole	none	6/18/2005	white coated metal; condition: good, reflector intact, red paint flaking/peeling, faces exiting traffic
2600730	0.22	left	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	0.2	left	a) slow; b) one lane traffic	warn, reg	a) 30x30; b) 30x30	4x4 wood post	none	6/18/2005	condition: good, a bit faded by sun
2600730	0.2	right	a) one lane road with turn-outs, please drive carefully; b) 15 mph	a) warn; b) reg	a) 27x45; b) 18x18	4x4 wood post	none	6/18/2005	yellow coated metal; condition: good, some scratches on a)
2600730	0.2	left	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	0.3	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	white coated metal; red painted pole bolted on top of metal pole; condition: fair, reflector missing, paint peeling, plate bent
2600730	0.3	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; pole has circular plastic slipped inside; condition: good
2600730	0.3	right	N/A	Snow marker	6x18	metal pole	none	6/18/2005	white coated metal; red painted pole bolted on top of metal pole; condition: fair, reflector missing, red paint peeling, sign bent
2600730	0.3	left	A careless match destroys	Info	17.5x45	two wood posts	none	6/18/2005	plastic laminate stapled to plywood; condition: good
2600730	0.4	left	N/A	Road marker	3.5x14	metal pole	none	6/18/2005	white coated metal with reflective tape; condition: good, bottom half of pole spray-painted fluorescent orange
2600730	0.4	left	a) Willamette National Forest Campground Trail Bridge; b) Forest Service U.S. Dept of Agriculture	Info	a) 59x60; b) 74x36	4x8 wood legs	none	6/18/2005	condition: a) fair, some paint chipping but message legible; b) good
2600730	0.4	right	Forest Service U.S. Dept of Agriculture U.S. fee area	Reg	18 (triangle)	4x4 wood post	none	6/18/2005	coated metal; condition: good
2600730	0.4	right	N/A	Road marker	6x18	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	0.5	right	N/A	Road marker	6x18	metal pole	none	6/18/2005	yellow coated metal; condition: good

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	0.5	left	N/A	Road marker	3.5x14	metal pole	none	6/18/2005	white coated metal with reflective tape; sign facing traffic entering campground; bottom half of pole spray painted fluorescent orange
2600730	0.5	left	N/A	Road marker	3.5x14	metal pole	none	6/18/2005	white coated metal with reflective tape; sign facing exiting traffic; bottom half of pole spray painted fluorescent orange. Condition: good,
2600730	0.6	right	N/A	Road marker	6x18	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	0.7	right	N/A	Unknown	unknown	metal pole	none	6/18/2005	condition: critical; no sign present; either add sign or remove pole; pole slightly crooked
2600730	0.7	right	N/A	Road marker	6x18	metal pole	none	6/18/2005	yellow coated metal; condition:
2600730	0.8	left	a) trail marker; b) arrow; c) trail marker; d) arrow	Info	a) 11.5x12; b) 6x12; c) 11.5x12; d) 6x12	circular wood post	none	6/18/2005	coated plywood; condition: good, some wearing but still clear
2600730	0.9	right	a) 15 mph; b) N/A	a) warn; b) road marker	a) 18x18; b) 6x18	metal pole	none	6/18/2005	yellow coated metal; red painted pole bolted to metal pole; condition: good
2600730	0.9	left	a) congestion; b) 15 mph	a) warn; b) reg	a) 24x24; b) 18x18	4x4 wood post	none	6/18/2005	a) yellow coated plywood; b) yellow coated metal. Condition: good, a) some nicks; b) slightly bent
2600730	0.9	right	N/A	Road marker	6x18	metal pole	none	6/18/2005	yellow coated metal; condition: fair

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	1.0	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	1.2	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	1.2	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	white metal; painted red pole bolted to metal pole; condition: fair, reflector missing, red paint flaking
2600730	1.2	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	white painted metal; painted red pole bolted to metal pole; condition: fair, reflector missing, sign bent slightly
2600730	1.2	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	1.2	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	painted metal; painted red pole bolted to top of metal pole; condition: critical, sign obstructed by tree, reflector missing, sign bent
2600730	1.3	right	N/A	snow/road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; red painted pole bolted to metal pole; condition: good, red paint, chipped
2600730	1.5	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolted to top of metal pole; condition: fair, reflector missing
2600730	1.5	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	1.6	right	N/A	Road marker	6x12	metal pole	none	6/18/2005	yellow coated metal; condition: good, slightly facing away from northbound traffic

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	1.7	left	N/A	Snow marker	unknown	metal pole	none	6/18/2005	red painted pole bolted to top of metal pole; condition: critical, sign missing
2600730	1.7	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolted to top of metal pole; condition: critical, bb gun/bullet holes, no reflector
2600730	1.8	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolted on top of metal pole; condition: poor, reflector missing, sign bent
2600730	1.8	left	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolter on top of metal pole; condition: poor, reflector missing, sign bent
2600730	1.9	right	N/A	Road marker	unknown	metal pole	none	6/18/2005	condition: critical, no sign present, either sign should be replaced or pole removed
2600730	1.9	right	N/A	Road marker	3.5x9	metal pole	none	6/18/2005	white metal with reflective tape; condition: good
2600730	2.2	left	Danger automatic equipment water level subject to sudden change (also in Spanish)	Warn	24x18	4x4 wood post	none	6/18/2005	painted metal; condition: good, slight notch in wood post
2600730	2.3	right	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolted on top of metal pole; condition: poor, reflector missing, bullet hoes, post slanted, red peeling paint
2600730	2.5	right	N/A	Snow marker	6x18	metal pole	none	6/18/2005	red painted pole bolted on top of metal pole; condition: critical, sign needs reattachment, red pole paint scraped/chipped

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	2.6	right	pavement ends	warn/info	41x41	4x4 wood post	none	6/18/2005	condition: poor, bb gun shots make wording slightly illegible, wood post damaged (hacked)
2600730	2.6	right	N/A	Road marker	unknown	metal pole	none	6/18/2005	plastic pole zip tied to metal pole; condition: fair, no sign attached
2600730	2.6	right	N/A	Road marker	unknown	metal pole	none	6/18/2005	condition: critical, no sign present, either sign should be replaced or pole removed
2600730	2.7	left	N/A	Snow marker	18x6	metal pole	none	6/18/2005	telephone pole with 5 reflectors (one missing) visible from both sides of traffic; condition: critical, half of reflector missing, sign bent
2600730	2.7	left	N/A	Snow marker	9x3.5	metal pole	none	6/18/2005	pink plastic pole wired to metal pole, pole painted white with reflective tape; condition: fair, reflector tape chipped
2600730	2.8	left	N/A	Snow marker	18x6	metal pole	none	6/18/2005	condition: critical, red pole and reflector missing, white paint chipped, pole lop-sided
2600730	2.8	left	N/A	Snow marker	unknown	metal pole	none	6/18/2005	condition: critical, red pole and reflector missing
2600730	2.8	left	Danger automatic equipment water level subject to sudden change (also in Spanish)	Warn	24x18	4x4 wood post	none	6/18/2005	painted metal; condition: good

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	2.8	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	pink plastic pole attached to metal pole with zip ties; condition: critical, reflector missing, plastic pole fragmented at zip tie
2600730	2.8	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	plastic painted pole attached to metal pole with zip ties; condition: good, reflector needs replacement
2600730	2.9	right	N/A	Snow marker	unknown	metal pole	none	6/18/2005	plastic painted pole attached to metal pole with zip ties; condition: poor, slanted pole, no reflector or white painted sign
2600730	2.9	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	painted metal; condition: good, white paint good, red paint chipped, reflector has minor chip
2600730	2.9	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	condition: good, red paint chipping
2600730	2.9	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	painted metal; condition: fair, red paint chipping, no white paint, some fluorescent orange paint sprayed on pole
2600730	3.0	right	N/A	Snow marker		metal pole	none	6/18/2005	painted metal; condition: good, some red paint chipping
2600730	3.0	right	Smith Boat Launch, no overnight camping	Reg	24x24	metal pole	none	6/18/2005	metal pole and red snow marker pole together, snow marker pole has no sign or reflector (intentionally); condition: good, missing letters from words

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600730	3.0	right	N/A	Snow marker	18x6	metal pole	none	6/18/2005	painted metal; condition: critical, half of reflector missing, bottom part bent, slightly chipped red paint
2600730	3.0	right	N/A Snow marker 18x6 metal pole none 6/18/2005		condition: critical, red pole and reflector missing				
2600730	3.1	left	N/A	Snow marker	18x6	metal pole	none	6/18/2005	condition: critical, reflector missing, red paint almost gone, bullet holes, lower portion obstructed by vegetation
2600730	3.1	right	N/A	Road marker	12x6	metal pole	none	6/18/2005	near culvert; coated metal; condition: good
2600730	3.1	left	N/A	Road marker	12x6	metal pole	none	6/18/2005	yellow coated metal
2600730	3.1	left	N/A	Road marker	12x6	metal pole	none	6/18/2005	yellow coated metal; condition: good
2600730	3.2	left	a) no parking, boat launch only; b) Lakes End Campground access by boat 2 miles	a) reg; b) info	a) 24x18; b) 24x24	4x4 wood post	none	6/18/2005	coated metal; condition: a) good, paint chipping but still easily read; b) fair, bullet holes but readable
2600732	0.006 (34 ft)	right	Information kiosk personal notes	Info	72x45	6x6 wood post		6/19/2005	2x6 wooden planks; condition: good
2600732	0.009 (46 ft)	right	self-service pay station - daily fee required	Reg	84x45	6x6 wood post	none	6/19/2005	condition: good
2600732	0.01 (53 ft)	right	information kiosk, several sign postings: "no fireworks" "quiet" "anglers"	info/reg	72x45	6x6 wood post	none	6/19/2005	2600732-0.006, 0.009, and 0.01 all connected by shared supports; condition: good
2600732	0.014 (73 ft)	right	barrier free fishing access	Info	36x19	4 in. diameter wooden post	none	6/19/2005	coated metal; condition: good, perforation at bottom right side

Route	Miles from start point	Position	Sign message Type Size (in) Su		Support	Backing	Date checked	Condition/remarks	
2600732	0.15	left	10 mph	Reg	18x18	4x4 wood post	none	6/19/2005	coated metal; condition: fair, sign is loose, paint chipped and scratched, message is visible
2600732	0.27	left	post		none	6/19/2005	2x6 wooden planks		
2600732	0.28	left	information kiosk	info/reg	59x44	6x6 wood post	none	6/19/2005	condition: good
2600732	0.28	left	10 mph	Reg	18x18	wood beam	none	6/19/2005	coated metal; wood beam attached to wood post of information kiosk; condition: good
2600732	0.27	right	N/A	Unknown	unknown	4 in. diameter wood post	none	6/19/2005	condition: critical, sign is missing, either need to replace sign or remove pole
2600732	0.28	left	EWEB Trail Bridge Reservoir normal daily changes in lake elevation	Info	42x51	4x4 wood post	none	6/19/2005	coated metal; condition: good, some chips in sign
2600731	0.04	right	boat launch parking only	Reg	28x12	4x4 wood post	none	6/14/2005	coated wood; condition: critical, peeling, fading, unreadable
2600731	0.07	left	a) Trail Bridge Reservoir, normal daily changes in lake elevation; b) Anglers, no bait; c) OW175	a) info;b) reg;c) road #	a) 42x46; b) 10x10; c)3x32	two 4x4 wood posts	none	6/14/2005	a) painted metal; b) plastic; c) carsonite; condition: a) fair; b) fair; c) fair
2600731	0.08	right	N/A	Unknown	unknown	6x6 wood post	unknown	6/14/2005	condition: critical, sign is missing, either need to replace sign or remove pole
2600731	0.09	right	speed limit 5 mph	Reg	12x18	4x4 wood post	unknown	6/14/2005	carsonite; not clear if sign refers to boat ramp speed or speed on reservoir
2672655	0.007 (36 ft)	right	a) 2672 655; b) limited maintenance	a) info; b) info	a) 9x12; b) 9x18	4.5 diameter wood post	none	6/17/2005	coated plywood; condition: a) fair, peeling paint; b) fair, plywood separating

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2672655	0.03	right	N/A	Unknown	unknown	metal pole	none	6/17/2005	condition: critical, sign is missing, either need to replace sign or remove pole
2672655	0.03	right	a) speed 15 mph; b) caution water line crossing	a) reg; b) warn	a) 24x30; b) 12x18	4x4 wood post	none	6/17/2005	coated metal; condition: a) good, fading; b) fair, paint peeling
2672655	0.03	left	caution water line crossing	Warn	12x18	wood post	none	6/17/2005	condition: fair, paint peeling
2672655	0.11	right	N/A	Snow markers (4)	6x18	metal pole	none	6/17/2005	condition: a) critical, paint peeling, no sign, reflector; b) critical, bullet and bb gun holes, damaged reflector, pole slanted; c) critical, red paint peeling, no sign or reflectors; d) critical, sign bent, missing reflector
2672655	0.14	left	speed 15 mph	Reg	24x30	4x4 wood post	none	6/17/2005	coated metal; condition: fair, post slanted, bullet hole in sign
2672655	0.3	right	double arrow	Info	4x12	5 in. diameter wood post	none	6/17/2005	coated metal; condition: fair, bullet holes in sign and post
2672655	0.4	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	0.5	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	0.6	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	1.3	left	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	1.6	left	underground high voltage cable, call EWEB before digging	Warn	5x10	metal pole	none	6/17/2005	coated metal; condition: good, held in place by only one rivet, slightly slanted

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2672655	1.8	left	N/A	Unknown	unknown	metal pole	none	6/17/2005	condition: critical, sign is missing, either need to replace sign or remove pole
2672655	1.9	right	N/A	N/A Road marker 6x12 metal pole none 6/17/2005		coated yellow metal; condition:			
2672655	2.0	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good, post slightly slanted
2672655	2.1	left	danger high voltage	Warn	7x10	metal pole	none	6/17/2005	coated metal; condition: good, slightly slanted
2672655	2.1	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	2.2	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	condition: good
2672655	2.2	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672655	2.3	right	N/A	Road marker	6x12	metal pole	none	6/17/2005	coated yellow metal; condition: good
2672690	0.015 (79 ft)	right	267 2690	Road marker	3x13	4 in. wide carsonite	none	6/19/2005	condition: good
2672690	0.38	left	267 2690	Road marker	3x13	4 in. wide carsonite	none	6/19/2005	condition: good
2672687	0.005 (28 ft)	right	267 2687	Road marker	13.5x3.5	4 in. wide carsonite	none		numbered stickers used as labels; condition: good
2600713	0.007 (37 ft)	right	EWEB Carmen-Smith Hydroelectric Project, Trail Bridge Dam and Plant Access Mileage	Info	42x51	wood post	none	6/19/2005	coated metal; condition: good
2600713	0.012 (62 ft)	right	a) dip; b) 10 mph	a) info; b) reg	a) 24x24; b) 12x18	metal pole	none	6/19/2005	condition: good

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600713	0.02 (124 ft)	right	N/A	Road marker	3.5x14	metal pole	none	6/19/2005	white coated metal with reflector tape; condition: good, slightly facing outside
2600713	0.05 (245 ft)	right	N/A Road marker 3.5x1		3.5x14	metal pole	none	6/19/2005	white painted metal with reflector tape; condition: good
2600713	0.1	right	N/A	Road marker	3.5x14	metal pole	none	6/19/2005	white painted metal with reflector tape; condition: good
2600713	0.1	left	N/A	Road marker	3.4x15	metal pole	none	6/19/2005	white painted metal with reflector tape; condition: good
2600713	0.1	left	a) dip; b) 10 mph	a) warn; b) reg	a) 24x24; b) 12x18	metal pole	none	6/19/2005	coated metal; condition: good
2600713	0.2	left	N/A	Road marker	3.5x14	metal pole	none	6/19/2005	white coated metal with reflector tape; condition: good
2600713	0.2	left	N/A	Road marker	6x18	metal pole	none	6/19/2005	white coated metal; condition: fair, missing reflector
2600713	0.2	left	N/A	Road marker	6x18	metal pole	none	6/19/2005	condition: fair, missing reflector
2600713	0.2	right	danger, deep water, water flow to dam may increase at any time because of equipment operation	Warn	18x14	metal pole	none	6/19/2005	coated metal; condition: poor, faded lettering, scarred paint
2600713	0.2	left	N/A	Road marker	6x18	metal pole	none	6/19/2005	white coated metal; condition: fair, missing reflector
2600713	0.3	right	N/A	Unknown	unknown	rebar	none	6/19/2005	condition: good? Probable marker for culvert
2600713	0.8	right	a) arrow; b) 2655	a) info; b) info	a) 8x10; b) 8x14	4 in. diameter wood post	none	6/19/2005	coated plywood; condition: a) fair, bullet holes, worn and splintered post; b) fair, bullet hole
2600714	0.1	right	N/A	Road marker	6x12	metal pole	none	6/19/2005	coated yellow metal; condition:

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2600714	0.1	right	N/A	Road marker	6x12	metal pole	none	6/19/2005	coated yellow metal; condition: good
2600714	0.1	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	coated yellow metal; condition:
2600714	0.1	left	N/A	Road markers (3)	6x12	metal pole	none	6/19/2005	yellow coated metal; condition: good
2600714	0.1	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	yellow coated metal; condition: good
2600714	0.1	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	yellow coated metal; condition: good
2600714	0.2	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	yellow coated metal; condition:
2600714	0.2	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	yellow coated metal; condition:
2600714	0.2	left	N/A	Road marker	6x12	metal pole	none	6/19/2005	yellow coated metal; condition: good
2600714	0.2	left	N/A	Road marker	6x18	metal pipe	none	6/19/2005	white metal; condition: good, no reflector
2600714	0.2	right	no fishing from powerhouse	Reg	18x24	4x4 wood post	none	6/19/2005	coated metal; condition: good
2600710	0.003 (18 ft)	left	stop	Reg	standard	4x4 wood post	none	6/19/2005	coated metal; condition: fair, dirty, sign bent, obstructed by branches
2600710	0.004 (22 ft)	right	N/A	Unknown	unknown	steel pole	none	6/19/2005	condition: critical, top cut off, no sign
2600710	0.009 (48 ft)	right	260 0710	Road marker	8x14	5 in. diameter wood post	none	6/19/2005	coated plywood; condition: fair, slightly obstructed by vegetation, paint chipping, dirty
2600710	0.6	right	automatic equipment, water level subject to sudden change	Warn	36x36	4x4 wood post	none	6/19/2005	coated metal; condition: fair, paint chipping, faded lettering

Route	Miles from start point	Position	Sign message	Туре	Size (in)	Support	Backing	Date checked	Condition/remarks
2672689	0.01 (60 ft)	right	2672 689	Info	9x14	5 in. diameter wood post	none	6/19/2005	coated plywood; condition: poor, bb gun holes, broken corner, post in poor condition
2672689	1.0		2672 689	Info	3.5x13.5	carsonite post	none	6/19/2005	numbered stickers used as labels; condition: good
2654780	0.01 (51 ft)	right	a) 2654 780; b) N/A	a) road marker/ info; b) road marker	a) 8x14; b) 6x12	5 in. diameter wood post	none	6/20/2005	a) coated plywood; b) yellow coated metal; condition: good
2654780	0.07	right	a) dead end 2; b) Forest Service US Dept of Agriculture	a) warn; b) info	a) 7x26; b) 3.5x4	wood post	none	6/20/2005	a) engraved 2x6 wood plank; b) coated metal; condition: a) good, post somewhat chipping; b) fair, torn/damaged left/bottom, faded
2600275	0.05	right	private forest management area no unauthorized access Giustina Resources	a) warn; b) info	18x24	none (tree mounted)	none (coated cardboard)	8/1/06	condition: good

Table A-4. Barrier inventory.

Category	ID-distance from start point	Development status 1	Appraisal rating	Condition rating	Date inspected	Remarks
fallen tree	2600252-0.5	EX	maintain	critical	6/20/2005	located after Tower 112; blocks access to towers
large ditch	2600252-0.8	EX	repair	critical	6/20/2005	impairs crossing, cars could get stuck in ditch

¹ Development status: EX= existing

Table A-5. Culvert inventory¹.

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
24-36 in. diameter	2600750-0.07	1st from road entrance before Ice Cap Creek	EX	no	fair	6/14/2005	moss, debris, rocks, weeds on culvert; right side of road
15 in. diameter; galvanized/corrugated steel	2600750-0.10	Unnamed tributary between 2600750- 0.07 and Ice Cap Creek	EX	no	poor	6/14/2005	partially collapsed on right side of road
26 in. diameter	2600750-0.17	Ice Cap Creek	EX	no	fair	6/14/2005	
2 ft diameter; steel pipe	2600750-0.46	Unnamed tributary (side drainage to McKenzie R)	EX	no	unknown	6/14/2005	steel pipe with grate on upstream (right) side of road
	2600751-0.14	unnamed tributary between snow markers 2600751- 0.11 and 0.17	EX	no	unknown; overgrown on both sides	6/14/2005	
18 in. diameter; steel pipe	2600751-0.19	unnamed	EX	no	good/fair	6/14/2005	
23 in. diameter	2600736-0.03	Bobby Creek	EX	possible replacement	fair	6/14/2005	right section is cut away and partially collapsed

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
13 in. diameter; corrugated steel	2600730-0.16	Carmen Bypass	EX	no	good	6/18/2005	drains roadside ditch by powerhouse into Carmen Bypass; metal grate surrounding opening; some vegetation on right side
13 in. diameter; corrugated steel	2600730-0.2	above Carmen Bypass	EX	maintenance (minor)	fair	6/18/2005	top portion crushed on right side
18 in. diameter; corrugated steel	2600730-0.3	above Carmen Bypass	EX	no	good	6/18/2005	
18 in. diameter; corrugated steel	2600730-0.4	Trail Bridge Campground	EX	maintenance (minor)	critical	6/18/2005	some sediment blockage on east side; west side crushed and filled with sediment
18 in. diameter; corrugated metal	2600730-0.5	Trail Bridge Campground	EX	maintenance	fair	6/18/2005	top half bent inward and sediment fill on east side; some sediment blockage on west side
18 in. diameter; corrugated steel	2600730-0.6	Trail Bridge Campground	EX	maintenance	critical	6/18/2005	half full of sediment; rusted; water obstructed by sediment
18 in. diameter; corrugated steel	2600730-0.7	Trail Bridge Campground	EX	maintenance (minor)	fair	6/18/2005	some sediment blockage
18 in. diameter; corrugated metal	2600730-0.8	Smith Bypass	EX	maintenance	poor	6/18/2005	sediment blockage and water pooled, bent top on east side; some sediment blockage on west side
18 in. diameter; corrugated metal	2600730-0.9	Smith Bypass	EX	maintenance (minor)	fair	6/18/2005	partially crushed opening
15 in. diameter; corrugated metal	2600730-1.0	Smith Bypass	EX	maintenance	critical	6/18/2005	sediment blockage, top opening split open on east side; west side appears good
18 in. diameter; corrugated steel	2600730-1.2	Smith Bypass	EX	maintenance (minor)	fair	6/18/2005	rusted, dented on top; some vegetation blockage on east side
15 in. diameter; corrugated steel	2600730-1.2	Smith Bypass	EX	maintenance (minor)	fair	6/18/2005	opening crumpled on east side; some moss/sediment at entrance
18 in. diameter; corrugated steel	2600730-1.3	Smith Bypass	EX	no	fair	6/18/2005	some sediment blockage on east side

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
15 in. diameter; corrugated steel	2600730-1.5	Smith Bypass	EX	no	good	6/18/2005	minor vegetation on east side
15 in. diameter; corrugated steel	2600730-1.6	Smith Bypass	EX	no	good	6/18/2005	
25 in. diameter; corrugated steel	2600730-1.7	Smith Bypass	EX	no	good	6/18/2005	minor vegetation on east side
19 in. diameter; corrugated metal	2600730-1.8	Smith Bypass	EX	maintenance	critical	6/18/2005	bent, sediments and rocks accumulated, water pooled on east side; west side looks fair
19 in. diameter; corrugated steel	2600730-1.9	Smith Bypass	EX	no	good	6/18/2005	water flowing through, drains into Smith Bypass from roadside ditch; bent in slightly at edges on east side
25 in. diameter; corrugated steel	2600730-1.9	Smith Bypass	EX	no	good	6/18/2005	
28 in. diameter; corrugated metal	2600730-2.3	Smith Bypass	EX	no	fair	6/18/2005	drains into Smith Bypass from roadside ditches (also passes under start of Road 733); no water currently flowing; some sediment build-up on west side; some minor sediment at entrance on east side
25 in. diameter; corrugated steel	2600730-2.3	Smith Bypass	EX	no	good	6/18/2005	no water currently flowing; drains into Smith Bypass from roadside ditch; some vegetation on east side but not obstructed
25 in. diameter; corrugated steel	2600730-2.5	Smith Bypass	EX	no	good	6/18/2005	drains into Smith Bypass from roadside ditch; water present; looks somewhat flattened on top; some vegetation growing around east end; water flowing through
21 in. diameter; non- corrugated steel	2600730-2.6	Smith Bypass	EX	maintenance (minor)	good	6/18/2005	drains into Smith Bypass from roadside ditch; some vegetation and sediment on east side; no water currently flowing

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
21 in. diameter; non-corrugated steel	2600730-2.6	Smith Bypass	EX	no	good	6/18/2005	drains into Smith Bypass from roadside ditch; cut portion looks intentional; no water currently flowing
19-in diameter; non- corrugated steel	2600730-3.1	unknown	EX	maintenance	good	6/18/2005	partially obstructed by tree; partially flattened on top (east side)
9.5 in. diameter; black plastic	2600730-3.19	unknown	EX	maintenance	poor	6/18/2005	trail culvert, drains into 2600730- 0.5; culvert under trail to outhouses needs maintenance on east side due to rock blockage
18 in. diameter; steel	2600730-3.2	unknown	EX	maintenance (minor)	fair	6/18/2005	above Smith Reservoir; currently no water flow; surrounding ditches also dry; smaller culvert above (east side) flows into this culvert (see 2600730-0.6); drains into 47x48 wood grate adjoining another culvert under boat launch road; minor blockage by boulders/rocks on east side; culvert under trail to outhouses needs maintenance due to rock blockage; all 3 culverts (trail, Carmen Plant Road, and boat launch) are part of series of 3 connecting culverts
19 in. diameter; steel	2600730-3.2	unknown	EX	maintenance	critical	6/18/2005	above Smith Reservoir; currently no water; surrounding ditches also dry; non-functional, east side filled with sediment
19 in. diameter; steel pipe	2600730-3.1	unknown	EX	maintenance	poor	6/18/2005	filled with sediment half-way through culvert on west side; covered in moss; partially crushed on east side
19 in. diameter; steel	2600730-3.1	unknown	EX	maintenance	poor	6/18/2005	top part bent, partially filled with gravel on east side; west side good

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
18 in. diameter; steel	2600730-3.5	unknown	EX	maintenance	poor	6/18/2005	sediment build up, obstructed on east side by large log; west side good
18 in. diameter; steel	2600730-3.51	unknown	EX	no	good	6/18/2005	above Smith Reservoir; currently no water flow; surrounding ditches also dry; partially bent on top on east side; west side good
26 in. diameter; steel pipe	2600730-3.53	unknown	EX	maintenance	fair	6/18/2005	above Smith Reservoir; currently no water flow; surrounding ditches also dry; partial sediment/ vegetation obstruction on east side
26 in. diameter; steel pipe	2600730-3.54	unknown	EX	no	good	6/18/2005	above Smith Reservoir; currently no water flow; surrounding ditches also dry; vegetation growth around east side
25 in. diameter; steel	2600730-3.31	unknown	EX	no	good	6/18/2005	above Smith Reservoir; currently no water flow; surrounding ditches also dry; some potential for sediment accumulation from erosion on west side; currently unimpeded
19 in. diameter; steel	2600730-3.39	unknown	EX	maintenance	fair	6/18/2005	above Smith Reservoir; currently no water flow; ditches leading to it also dry; filled with sediment on east side of road
24 in. diameter; steel	2600730-3.44	unknown	EX	no	good	6/18/2005	above Smith Reservoir; currently no water flow; ditches also dry; appears good, no rust
18 in. diameter; corrugated steel (on left side only)	2672692- 0.003	EWEB housing area	EX	maintenance	critical	6/19/2005	could not find drainage end of culvert; right side had water seeping from a solid cylindrical concrete block (6 in. diameter); sediment blockage in front of corrugated steel culvert (left side); no fish issue since drains roadside ditch

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
11 in. diameter; corrugated steel	2672692-0.1	EWEB housing area	EX	maintenance (minor)	fair	6/19/2005	top slightly bent in on end nearest houses; drains onto slope above Office Road; some sediment accumulation; some standing water
12 in. diameter; non-corrugated steel	2672655-0.4	roadside ditch	EX	maintenance	critical	6/17/2005	collapsed, sediment build up, rusted on right side; very steep, drains roadside ditch on left side, no fish issue
25 in. diameter; corrugated steel	2672655-0.5	roadside ditch and hillside runoff	EX	no	good	6/17/2005	drains both roadside ditch and hillside runoff; no fish issue, too steep
19 in. diameter; corrugated steel	2672655-0.6	roadside ditch and hillside runoff	EX	no	good	6/17/2005	roadside ditch and hillside runoff on right side; drains into forest on left side; no fish issue, potential amphibian use due to pool on right hand side
12 in. diameter; non-corrugated steel	2672655-1.3	roadside ditch	EX	maintenance (minor)	fair	6/17/2005	sediment build up, end is rusted, bent on left side; good on right side; no fish issue since roadside drainage
18 in. diameter; corrugated steel	2672655-1.9	roadside drainage	EX	maintenance	critical	6/17/2005	sediment build up, slight bend in culvert on right side; drains into 12- ft flume filled with sediment on left side; non-fish issue
19 in. diameter; corrugated steel	2672655-2.0	roadside drainage	EX	maintenance	critical	6/17/2005	filled with sediment on right side; clear but with 12-ft flume filled with sediment on left side; no fish issue since drains roadside
19 in. diameter; corrugated steel	2672655-2.1	roadside drainage	EX	maintenance	fair	6/17/2005	sediment build up on right side; good on left side; no fish issue since drains roadside
19 in. diameter; corrugated steel	2672655-2.2	roadside drainage	EX	maintenance	poor	6/17/2005	rockfall obstruction on right side; no fish issue since drains roadside

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
19 in. diameter; corrugated steel	2672655-2.2	roadside drainage	EX	maintenance	poor	6/17/2005	rockfall debris, bent/damaged end of pipe on right side; no fish issue since drains roadside
19 in. diameter; corrugated steel	2672655-2.3	roadside drainage	EX	no	good	6/17/2005	no fish issue since drains roadside
25 in. diameter; corrugated metal	2600713-0.3	roadside ditch	EX	maintenance	critical	6/19/2005	top portion cut off, damaged, sediment blockage on right side; completely filled with sediment on left side; no fish issue since drains roadside
25 in. diameter; corrugated steel	2600714-0.1	roadside ditch	EX	maintenance	critical	6/19/2005	sediment blockage on right side; sediment blockage, vegetative growth on left side
13 in. diameter; corrugated steel	2600714-0.1	roadside drainage	EX	maintenance	poor	6/19/2005	sediment blockage on both sides; water flow on left side; no fish issue since drains roadside
19 in. diameter; corrugated steel	2600714-0.1	roadside drainage	EX		good	6/19/2005	water flow on right side protrudes out of soil about 3 ft
12 in. diameter; white pvc	2600714-0.1	roadside drainage	EX	no	good	6/19/2005	covered with 24x28 metal grate; culvert runs parallel to road underneath a concrete utility vault, 20 ft long; no fish issue since drains roadside
a) 20 in. diameter; non-corrugated steel; b) 24 in. diameter; corrugated steel	2600714-0.2	roadside drainage into river below Trail Bridge Dam	EX	no	good	6/19/2005	culverts side by side, running same direction; a) has more water flow; left side of b) has some rock obstructions; non-fish issue, too steep for fish
12 in. diameter; pvc	2600714-0.2	roadside drainage into river below Trail Bridge Dam	EX	no	good	6/19/2005	covered with 24x28 metal/concrete grate; no fish issue because pipe extends down hillside 3 ft

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
13 in. diameter; corrugated steel	2672689-0.4	roadside ditch	EX	maintenance	fair	6/19/2005	no water present; some sediment on right side; vegetation overhang, sediment fill on left side; no fish issue since drains roadside
13 in. diameter; corrugated steel	2672689-0.5	roadside ditch	EX	maintenance	critical	6/19/2005	no water present; sediment blockage on both sides; no fish issue since drains roadside
13 in. diameter; corrugated steel	2672689-0.8	roadside ditch	EX	no	good	6/19/2005	no water present; small amount of sediment build up on right side; no fish issue since drains roadside
13 in. diameter; corrugated steel	2672689-0.9	roadside drainage into small drainage/tributary	EX	no	good	6/19/2005	no water present in ditch or drainage area; drains into dry, small drainage/tributary on left side; no fish issue as culvert elevated above ground on drainage side (see Figure A-1), but drainage may be used by amphibians
13 in. diameter; corrugated steel	2672689-0.9	roadside ditch	EX	no	good	6/19/2005	miniscule water flow through culvert but ditches dry on both sides of culvert; minor sediment accumulation on right side; some overgrown vegetation on left side; no fish issue due to steepness on drainage side; potential amphibian use during high flow
13 in. diameter; corrugated steel	2672689-1.0	roadside ditch paralleling Smith Bypass Road	EX	maintenance	fair	6/19/2005	no water present; sediment build up on both sides; no fish issue since drains roadside

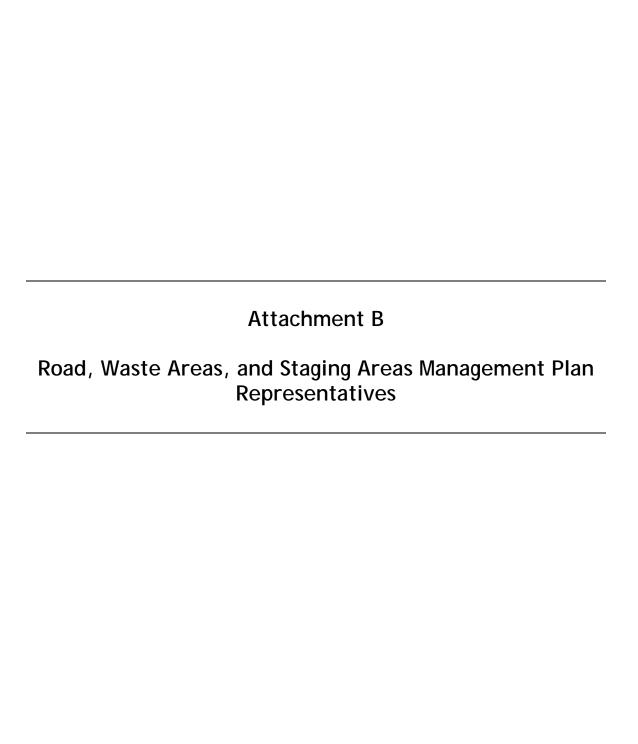
Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
31 in. diameter; corrugated steel	2655520-0.1	unknown tributary	EX	no/possible maintenance of creek	good	6/20/2005	50 yards down from Tower 10; lots of water flow; creek contains a lot of wood debris; flow seems to be consistent on right side, has riparian vegetation; potential for fish habitat due to water flow; invert present; minor blockage on right by rock; empties into Deer Creek eventually (see Figures A-2–A-7)
25 in. diameter; corrugated steel	2654780-0.1	dried up creek and roadside drainage	EX	maintenance (minor)	fair	6/20/2005	some sediment and rock blockage on right side; no fish issue due to steep gradient and culvert drop off on left (see Figures A-8–A-10)
18 in. diameter; corrugated steel	2654780-0.2	roadside drainage	EX/ currently disposed	maintenance/ repair	critical	6/20/2005	overgrown with vegetation, some sediment blockage, hard to see on right side; could not locate left side, drainage end possible collapse/sediment fill; no fish issue since drains roadside
18 in. diameter; corrugated steel	2654780-0.3	roadside drainage	EX/ currently disposed	maintenance/ repair	critical	6/20/2005	overgrown with vegetation, some sediment fill on right side; unable to located on left side, possibly collapsed/filled with sediment; no fish issue since roadside drainage
18 in. diameter; corrugated steel	2654780-0.6	roadside drainage	EX	maintenance	fair	6/20/2005	some sediment build up on right side; some sediment build up on left side; no fish issue since roadside drainage
18 in. diameter; corrugated	2654780-0.6	roadside drainage	EX	maintenance	fair	6/20/2005	some sediment build up on right side; some woody debris on left; no fish issue, small/minor drainage from forest

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
24 in. diameter; corrugated steel	2654780-0.7	unknown	EX	no	good	6/20/2005	damaged/bent, torn, small bit of rock debris not blocking water flow on right side; good on left side, possible fish habitat at high flow; potential wildlife amphibian habitat, no fish, steep gradient (see Figures A-11–A-12)
18 in. diameter; corrugated steel	2654780-0.8	roadside drainage	EX	maintenance	critical	6/20/2005	currently dry; completely obstructed by woody debris on right side; 3/4 filled with sediment on left side; no fish issue since roadside drainage, too steep
18 in. diameter; corrugated steel	2654780-0.8	roadside drainage	EX	maintenance	poor	6/20/2005	1/4 filled with sediment on right side; 1/2 filled with sediment on left; no fish issue since roadside drainage
18 in. diameter; corrugated steel	2654780-0.9	roadside drainage	EX	maintenance	poor	6/20/2005	1/2 filled with sediment on right; 1/4 filled with sediment on left; no fish issue since roadside drainage
18 in. diameter; corrugated steel	2654780-1.0	roadside drainage	EX	maintenance	critical	6/20/2005	drainage for forest, dry; some sediment debris on right side; 1/2 filled with debris on left side; no fish issue since roadside drainage
18 in. diameter; corrugated steel	2654780-1.0	roadside drainage	EX	maintenance	poor	6/20/2005	possible drainage for forest, dry; obstructed by sediment and vegetation on right side; slightly obstructed by sediment on left side; no fish issue since roadside drainage

Category ²	ID-miles from start point	Stream name	Development status ³	Appraisal rating	Condition rating	Date inspected	Remarks
70 in. diameter; corrugated steel	2650607-0.2	unknown, drains into McKenzie River	EX	a) maintenance (minor); b) no	good	6/22/2005	a) dry, some minor sediment, either old culvert or only used as overflow during high flows; b) flowing, rusted and bent in at outlet; good amphibian habitat; no fish issue due to gradient on drainage side (see Figures A-13–A-21)
31 in. diameter; corrugated steel	2600252-0.2	unknown	EX	no	good	6/20/2005	lots of water; some woody debris on right side
31 in. diameter; corrugated steel	2600252-0.2	unknown, same creek as above	EX	maintenance	critical	6/20/2005	a lot of woody debris, blockage, most water flows into another culvert (see above), smaller boulders on right side, substantial algae growth, many embedded boulders; potential amphibian/fish habitat (See Figures A-22–A-25)
corrugated steel	2600252-1.0	unknown	EX	maintenance	poor	6/20/2005	lots of vegetation; water flow is not impaired but vegetation could lead to blockage

Culvert inventory does not encompass a consistency review with Aquatic Conservation Strategy Riparian Reserve Standards and Guidelines.
 Category: Culvert sizes are based on field measurements and may vary from typical culvert sizes which run in 2-inch increments.

³ Developmental status: EX= existing, DI=disposed.



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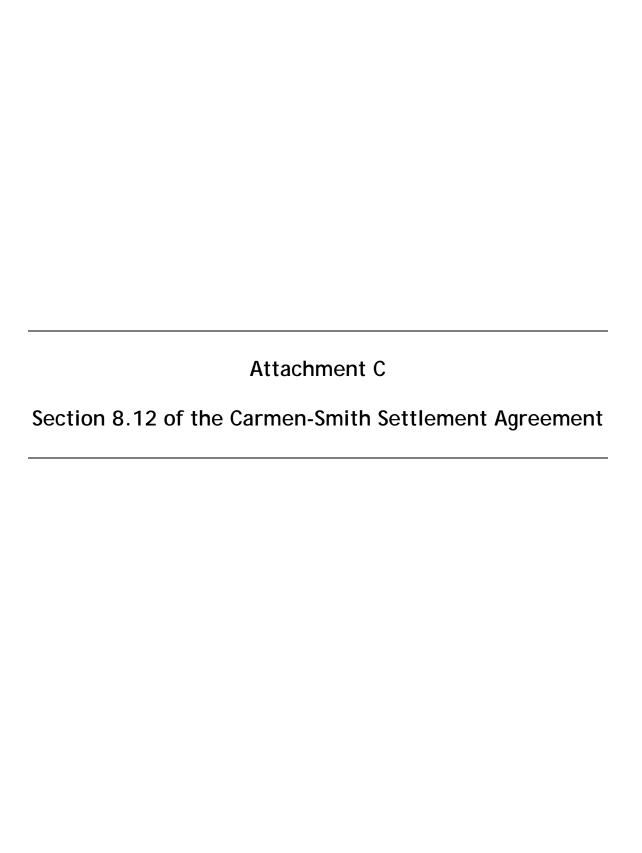
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8.12 Notice.

Except as otherwise provided in this Section 8.12, any notice required by this Agreement will be written and will be sent by first-class mail or comparable method of distribution (including e-mail) to all Parties still in existence or their successors and will be filed with FERC if required by this Agreement. For the purpose of this Agreement, a notice will be effective seven days after the date on which it is mailed or otherwise distributed. When this Agreement requires notice in less than seven days, notice will be provided by telephone, facsimile, or electronic mail and will be effective when provided. For the purpose of notice, the list of authorized representatives of the Parties as of the Effective Date is attached as Exhibit I. The Parties will provide notice as provided in this Section 8.12 of any change in the authorized representatives designated in Exhibit I, and EWEB will maintain the current distribution list of such representatives.