

Riparian Planting Plan Requirements

21 October 2013

- a. Planting a riparian area with trees and shrubs evenly interspersed. The size of the riparian area must be at least 1:1 ratio with the amount of overwater coverage. For example, if a 320 square foot pier is proposed, 320 square feet of riparian area must be planted for this mitigation measure. Before the applicant selects this mitigation measures, they must have the Corps review the specific site conditions to ensure that plantings are appropriate and will be successful at the selected location.
 - i. The prospective permittee is required to establish and preserve the planting plot at the project site for the duration that the overwater structure is in place. A drawing of the proposed planting area must be recorded with the Registrar of Deeds. Proof of this must be provided to the Corps within 65 days after the date of the Corps' verification letter to the permittee.
 - ii. The planting plot(s) will be planted (cuttings, burlapped roots or 1 – 5 gallon size) with native shrubs and trees (see Appendix A).
 - iii. The plot needs to be on the property but does not need to be located adjacent to the overwater structures. However, the waterward edge of the planting area must be no further than 10 feet from the ordinary high watermark of the lake and oriented parallel to the shoreline.
 - iv. The shrubs will be planted at intervals of 3-feet on center, and the trees will be planted at intervals of 10-feet on center. The plant species must be from the plant list in Appendix A or must be a species approved by the Corps.
 - v. Performance Standards. One hundred percent survival of all planted trees and shrubs is required during the first and second years after planting the plot(s). During the third through fifth years after planting, a minimum 80 percent survival is required. The permittee must protect the planting plot(s) against predation—the Corps recommends fencing. Individual plants that die must be replaced with native shrubs and trees taken from the plant list in Appendix A. Maintenance of the mitigation area includes removal and replacement of dead or dying plants and removal of invasive and/or noxious weeds. Maintenance does not include trimming or mowing of the mitigation plants. The mitigation plants must be allowed to develop naturally. If during the 5 years of monitoring, contingency plans are required (e.g., irrigation, additional plantings, planting different species), the permittee must implement any Corps-required contingency plans.
 - vi. An as-built report must be submitted within 13 months from the date of permit issuance (see Appendix B).
 - vii. Mitigation planting monitoring reports will be due annually, no later than November 30 of each monitoring year, for 5 years from when Corps accepts the as-built drawings. The mitigation monitoring report will include written and photographic documentation of tree and shrub mortality and replanting efforts. Photographs must be taken between June – August (the best time of year to show plant growth). Photographs must show a panoramic view of the entire mitigation planting area. Set points from where photos are taken must be established and used repeatedly for each monitoring year. The date of the photos must be noted on the monitoring report. The permittee can meet this reporting requirement by submitting to the Corps a completed *Mitigation Planting Monitoring Report*, Appendix C.

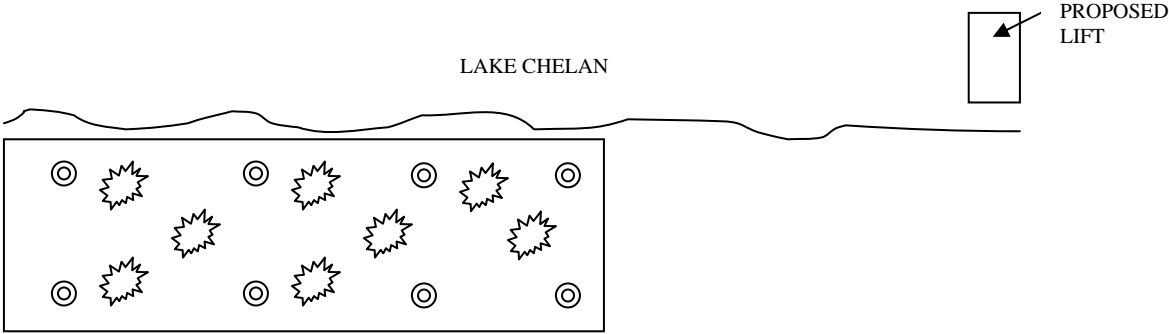
APPENDIX A

Plant List and Example Planting Plan

List of Approved Plant Species

Common Name	Scientific Name
Shrubs:	
Serviceberry	<i>Amelanchier alnifolia</i>
Tall Oregon-grape	<i>Berberis aquifolium</i>
Sticky-laurel/Snowbrush	<i>Ceanothus velutinus</i>
Red-twig Ceanothus	<i>Ceanothus sanguineus</i>
Virgin's bower	<i>Clematis ligusticifolia</i>
Redosier dogwood	<i>Cornus sericea</i>
Ocean spray	<i>Holodiscus discolor</i>
Western Juniper	<i>Juniperus occidentalis</i>
Rocky Mountain juniper	<i>Juniperus scopulorum</i>
Black twinberry	<i>Lonicera involucrata</i>
Utah honeysuckle	<i>Lonicera utahensis</i>
Mock orange	<i>Philadelphus lewisii</i>
Black chokecherry	<i>Prunus virginiana</i> var. <i>melanocarpa</i>
Mallow ninebark	<i>Physocarpus malvaceus</i>
Golden currant	<i>Ribes aureum</i>
Wild rose	<i>Rosa gymnocarpa</i>
Wood's rose	<i>Rosa woodsii</i>
Peach-leaf willow	<i>Salix amygdaloides</i>
Bebb's willow	<i>Salix bebbiana</i>
Trees:	
Douglas Maple	<i>Acer glabrum</i> var. <i>douglasii</i>
Gray alder	<i>Alnus incana</i>
White alder	<i>Alnus rhombifolia</i>
Sitka alder	<i>Alnus sinuata</i>
Water birch	<i>Betula occidentalis</i>
Paper birch	<i>Betula papyrifera</i>
Hackberry	<i>Celtis reticulata</i>
Black hawthorn, douglas	<i>Crataegus douglasii</i> var. <i>douglasii</i>
Ponderosa pine	<i>Pinus ponderosa</i>
Black cottonwood	<i>Populus balsamifera</i>
Quaking aspen	<i>Populus tremuloides</i>

EXAMPLE PLANTING PLAN:



8 Trees and 8 Shrubs

⊙ P. balsamifera
10 feet on center

✱ S. prolixa
3 feet on center

PLAN VIEW
Scale:
1 inch = 10 feet

APPENDIX B

Status/ As-built Report for Mitigation Work Completion

Within one (1) year or earlier as indicated on this form, of the date of your verification letter, submit this completed form to: U.S. Army Corps of Engineers, Regulatory Branch, P.O. Box 3755, Seattle, WA 98124-3755. For riparian planting mitigation, you must complete and submit Appendix F annually after the Corps accepts your as-built drawings of the mitigation construction.

Corps Reference Number: _____

Date the Corps Issued Your Permit: _____

Date this Report is Due: _____

Your Name: _____

Your Address: _____

Your City/State/Zip Code: _____

Check the authorized mitigation activity performed and include the required attachments:

☐ Mitigation option; Riparian plantings

Attachment: ☐ Photographs of the mitigation area (preferably taken during June – August).

Conditions of your Corps permit require 100% survival of all planted trees and shrubs during the first and second years after planting. During the third through fifth years after planting, 80% survival is required. Individual plants that die must be replaced with native species listed above. You must protect your mitigation area—fencing is recommended.

Date of Installation	Species name of Plants	Number of Plants Installed

APPENDIX C

Riparian Mitigation Planting Monitoring Report

Submit this completed form to: U.S. Army Corps of Engineers, Regulatory Branch, P.O. Box 3755, Seattle, WA 98124-3755. A completed form must be submitted 1, 2, 3, 4 and 5 years after the Corps accepts your as-built drawing of the mitigation planting area.

Corps Reference Number: _____

Date Your As-BUILTs Were Accepted by the Corps _____

Date This Report Is Due: _____

Your Name: _____

Your Address: _____

Your City/State/Zip Code: _____

You must attach to this form: ☐ Photographs of the mitigation area (preferably taken during June – August).

Conditions of your Corps permit require 100% survival of all planted trees and shrubs during the first and second years after planting. During the third through fifth years after planting, 80% survival is required. Individual plants that die must be replaced with native species listed above. You must protect your mitigation area—fencing is recommended.

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