

APPENDIX B - TABLES

Buffer Restoration Plant Lists

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B.3 Buffer Restoration Plant Lists

B.3.1. Selecting Plants

The plant lists provided for buffer remediation are generally grouped according to the reference ecosystem that is being replicated. These include broad plant communities such as riparian forest, upland forest, oak woodland/savannah, ash forested wetland, shrub/scrub wetland, and emergent marsh.

Each community contains a guide to site specific planting (such as water and light requirements) as well as a listing of specific characteristics for each species. It also includes a minimum planting size, and recommended spacing. Each plant community also contains a minimum species composition (plants that must be included as a minimum variety) to ensure adequate biodiversity.

The buffer plant lists provided on the following pages were adapted from Clean Water Services' *Design and Construction Standards for Sanitary Sewer and Surface Water Management*, June 2007.

TABLE 1: Buffer Restoration Plant: Riparian Forest (RF)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
<i>Adiantum aleuticum</i> , Maidenhair fern		Herb	Moist	Shade	4" pot	n/a	Cluster
<i>Agrostis exarata</i> , Spike bentgrass	•	Grass	Moist	Part	Seed	n/a	Mass
<i>Agrostis scabra</i> , Hair bentgrass		Grass	Moist	Part	Seed	n/a	Mass
<i>Alnus rubra</i> , Red alder	•	Tree	Moist	Sun	1 gal.	3'	Single
<i>Athyrium filix-femina</i> , Lady fern		Herb	Moist	Shade	1 gal.	n/a	Cluster
<i>Carex deweyana</i> , Dewey's sedge		Herb	Dry	Shade	Plugs/4" pot	4"	Mass
<i>Claytonia sibirica</i> , Candy flower		Herb	Moist	Shade	4" pot	n/a	Cluster
<i>Cornus stonifera</i> , Red-osier dogwood	•	Shrub	Wet	Part	1 gal.	2'	Cluster
<i>Glyceria elata</i> , Tall manna-grass	•	Grass	Moist	Part	Seed	n/a	Mass
<i>Lonicera involucrata</i> , Black twinberry		Shrub	Moist	Part	1 gal.	1.5'	Single
<i>Lysichiton americanum</i> , Skunk cabbage		Herb	Wet	Shade	Bulbs	n/a	Cluster
<i>Maianthemum dilatatum</i> , False lily-of-the-valley		Herb	Moist	Shade	Bulbs/4" pot	n/a	Cluster
<i>Montia perfoliata</i> , Miners lettuce		Herb	Moist	Shade	4" pot	n/a	Cluster
<i>Oemleris cerasiformis</i> , Indian plum	•	Shrub	Moist	Shade	2 gal.	2'	Cluster
<i>Pysocarpus capitatus</i> , Pacific ninebark		Shrub	Moist	Shade	1 gal.	2'	Single
<i>Rosa pisocarpa</i> , Swamp rose		Shrub	Moist	Shade	1 gal.	1.5'	Cluster
<i>Rubus spectabilis</i> , Salmonberry	•	Shrub	Moist	Shade	1 gal.	1.5'	Cluster
<i>Sambucus racemosa</i> , Red elderberry	•	Shrub	Moist	Part	1 gal.	1.5'	Single
<i>Symphoricarpos albus</i> , Snowberry	•	Shrub	Dry	Part	1 gal.	1.5'	Cluster
<i>Tolmiea menziesii</i> , Youth-on-age		Herb	Moist	Shade	4" pot	n/a	Cluster
<i>Thuja plicata</i> , Western red cedar	•	Tree	Moist	Part	1 gal.	1.5'	Single
<i>Vancouveria hexandra</i> , Insideout flower		Herb	Moist	Shade	4" pot	n/a	Cluster
<i>Viola glabella</i> , Stream violet		Herb	Moist	Shade	4" pot	n/a	Cluster

TABLE 2: Buffer Restoration Plant: Upland Forest (UF)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
Red alder (<i>Alnus rubra</i>)	•	Tree	Moist	Sun	1 gal.	3'	Single
Big leaf maple (<i>Acer macrophyllum</i>)	•	Tree	Dry	Sun	2 gal.	3'	Single
Douglas fir (<i>Pseudotsuga menziesii</i>)	•	Tree	Dry	Sun	2 gal.	3'	Single
Grand fir (<i>Abies grandis</i>)	•	Tree	Dry	Sun	2 gal.	2'	Single
Pacific yew (<i>Taxus brevifolia</i>)		Tree	Moist	Shade	2 gal.	2'	Single
Cascara (<i>Rhamnus purshiana</i>)		Tree	Dry	Part	2 gal.	2'	Single
Pacific dogwood (<i>Cornus nuttallii</i>)		Tree	Moist	Shade	1 gal.	2'	Single
Bitter cherry (<i>Prunus emarginata</i>)		Tree	Moist	Part	2 gal.	2'	Single
Vine maple (<i>Acer circinatum</i>)	•	Tree	Moist	Part	2 gal.	2'	Single
Oceanspray (<i>Holodiscus discolor</i>)	•	Shrub	Dry	Sun	1 gal.	1.5'	Single
Red elderberry (<i>Sambucus racemosa</i>)	•	Shrub	Moist	Part	1 gal.	1.5'	Single
Red flowering currant (<i>Ribes sanguineum</i>)	•	Shrub	Dry	Sun	1 gal.	1.5'	Cluster
Cascade Oregon grape (<i>Mahonia nervosa</i>)		Shrub	Moist	Part	1 gal.	4"	Cluster
Tall Oregon grape (<i>Mahonia aquifolium</i>)		Shrub	Dry	Sun	1 gal.	6"	Single
Red huckleberry (<i>Vaccinium parvifolium</i>)		Shrub	Moist	Shade	1 gal.	1.5'	Cluster
Thimbleberry (<i>Rubus pariflorus</i>)		Shrub	Moist	Shade	1 gal.	1.5'	Cluster
Snowberry (<i>Symphoricarpos albus</i>)	•	Shrub	Dry	Part	1 gal.	1.5'	Cluster
Baldhip rose (<i>Rosa gymnocarpa</i>)	•	Shrub	Dry	Part	1 gal.	1.5'	Cluster
Serviceberry (<i>Almelanchier alnifolia</i>)		Shrub	Dry	Part	2 gal.	2'	Single
Sword fern (<i>Polystichum munitum</i>)		Shrub	Moist	Shade	2 gal.	n/a	Cluster
Deer fern (<i>Blechnum spicant</i>)		Herb	Moist	Shade	1 gal.	n/a	Cluster
Orange honeysuckle (<i>Lonicera ciliosa</i>)		Herb	Moist	Shade	2 gal.	n/a	Single
Salal (<i>Gaultheria shallon</i>)		Herb	Moist	Part	1 gal.	4"	Cluster
Wood strawberry (<i>Fragaria vesca</i>)		Herb	Moist	Shade	4" pot	n/a	Cluster
Western trillium (<i>Trillium ovatum</i>)		Herb	Moist	Shade	4" pot	n/a	Cluster
Five-stemmed mitrewort (<i>Mitella pentandra</i>)		Herb	Moist	Shade	1 gal.	n/a	Cluster
Red columbine (<i>Aquilegia formosa</i>)		Herb	Dry	Part	4" pot	n/a	Cluster
False Solomon's seal (<i>Smilacina racemosa</i>)		Herb	Moist	Shade	4" pot	n/a	Cluster
Native California brome (<i>Bromus carinatus</i>)	•	Grass	Dry	Sun	Seed	n/a	Mass
Blue wildrye (<i>Elymus glaucus</i>)	•	Grass	Dry	Part	Seed	n/a	Mass

TABLE 3: Buffer Restoration Plant: Oak Woodland/Savanna (OW)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
<i>Almelanchier alnifolia</i> , Serviceberry	•	Shrub	Dry	Part	1 gal.	2'	Single
<i>Bromus carinatu</i> , Native California brome	•	Grass	Dry	Sun	Seed	n/a	Mass
<i>Elymus glacus</i> , Blue wild-rye	•	Grass	Dry	Part	Seed	n/a	Mass
<i>Holodiscus discolor</i> , Oceanspray	•	Shrub	Dry	Sun	1 gal.	1.5'	Cluster
<i>Mahonia nervosa</i> , Cascade Oregon grape		Herb	Moist	Part	1 gal.	4"	Cluster
<i>Quercus garryana</i> , Oregon white oak	•	Tree	Dry	Sun	2 gal.	2'	Single
<i>Rubus ursinus</i> , Training blackberry		Shrub	Dry	Sun	1 gal.	1.5'	Cluster
<i>Symphoricarpos albus</i> , Snowberry	•	Shrub	Dry	Part	1 gal.	1.5'	Cluster

TABLE 4: Buffer Restoration Plant: Ash Forested Wetland (FW)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
<i>Carex deweyana</i> , Dewey's sedge		Herb	Dry	Shade	Plugs	4"	Mass
<i>Carex obnupta</i> , Slough sedge	•	Herb	Moist	Part	Plugs	6"	Mass
<i>Claytonia sibirica</i> , Candy flower		Herb	Moist	Shade	4"	n/a	Cluster
<i>Cornus sericea</i> , Red-osier dogwood	•	Shrub	Wet	Part	1 gal.	2'	Cluster
<i>Fraxinus latifolia</i> , Oregon ash	•	Tree	Moist	Part	2 gal.	3'	Single
<i>Glyceria elata</i> , Tall mannagrass	•	Grass	Moist	Shade	Seed	n/a	Mass
<i>Montia parvifolia</i> , Streambank springbeauty		Herb	Moist	Shade	4"	n/a	Cluster
<i>Physocarpus capitatus</i> , Pacific ninebark	•	Shrub	Moist	Shade	2 gal.	2'	Single
<i>Symphoricarpus albus</i> , Snowberry	•	Shrub	Dry	Part	1 gal.	1.5'	Cluster
<i>Scirpus microcarpus</i> , Small fruited bulrush		Herb	Wet	Sun	Plugs	4"	Mass

TABLE 5: Buffer Restoration Plant: Shrub/Scrub Wetland (SS)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
<i>Cornus sericea</i> , Red-osier dogwood	•	Shrub	Wet	Part	1 gal.	2'	Cluster
<i>Crataegus douglasii</i> , Douglas hawthorne		Tree	Moist	Part	2 gal.	2'	Cluster
<i>Bidens cernua</i> , Nodding beggarstick		Herb	Wet	Sun	1 gal.	1.5'	Cluster
<i>Glyceria occidentalis</i> , Western manna-grass	•	Grass	Wet	Sun	Seed	n/a	Mass
<i>Juncus patens</i> , Spreading rush		Herb	Moist	Part	Plugs	6"	Mass
<i>Malus fusca</i> , Pacific crabapple	•	Tree	Moist	Part	2 gal.	2'	Cluster
<i>Rosa pisocarpa</i> , Clustered rose		Shrub	Wet	Part	1 gal.	1.5'	Cluster
<i>Salix lasiandra</i> , Pacific willow	•	Tree	Wet	Sun	1 gal.	3'	Single
<i>Salix sitchensis</i> , Sitka willow		Tree	Moist	Sun	1 gal.	3'	Cluster
<i>Salix scouleriana</i> , Scouler's willow	•	Shrub	Moist	Sun	1 gal.	3'	Cluster
<i>Spiraea douglasii</i> , Douglas's spiraea	•	Shrub	Wet	Sun	1 gal.	1.5'	Cluster

TABLE 6: Buffer Restoration Plant: Emergent Marsh (EM)

Species name Botanical, common	Minimum Species Composition	Plant Category	Water Requirements	Light Requirements	Minimum Rooting Size	Minimum Plant Height	Spacing Format
<i>Alisma plantago-aquatica</i> , American water plantain		Herb	Wet	Sun	Bulbs	n/a	Cluster
<i>Beckmannia syzigachne</i> , American sloughgrass	•	Grass	Wet	Sun	Seed, Plugs	n/a	Cluster
<i>Bidens cernua</i> , Nodding beggarstick	•	Herb	Moist	Sun	1 gal.	1.5'	Cluster
<i>Glyceria occidentalis</i> , Western manna-grass	•	Grass	Wet	Sun	Seed	n/a	Mass
<i>Eleocharis palustris</i> , Creeping spike rush	•	Herb	Wet	Sun	Seed, Plugs	4"	Mass
<i>Glyceria occidentalis</i> , Western manna-grass	•	Grass	Wet	Sun	Seed	n/a	Mass
<i>Sagittaria latifolia</i> , Wapato		Herb	Wet	Sun	Bulbs	n/a	Cluster
<i>Scirpus acutus</i> , Hardstem bulrush		Herb	Wet	Sun	Plugs	1.5'	Cluster
<i>Scirpus microcarpus</i> , Small-fruited bulrush	•	Herb	Wet	Sun	Plugs	6"	Mass
<i>Scirpus tabernaemontani</i> , Soft stemmed bulrush		Herb	Wet	Sun	Plugs	1.5'	Cluster
<i>Veronica americana</i> , American brooklime		Herb	Wet	Sun	Plugs	n/a	Cluster
<i>Veronica scutellata</i> , Marsh speedwell		Herb	Wet	Sun	Plugs	n/a	Cluster