



Vegetation Unit Summaries for **Tideman Johnson Natural Area (TIDE)**

Report date: 7/29/2009

'\*' = non-native invasive species

Visit data as of: 7/29/2009

**Unit TIDE\*001**

**Size:** 0.1 Acres

**NVCS Class:** Shrubland

**NVCS Subclass:** Mixed evergreen-deciduous shrubland

**NVCS Group:** Mixed evergreen - cold-deciduous shrubland (with or without scattered tree canopy)

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.087 North Pacific Montane Shrubland

**Landform:** Side-hill, Middle 3rd

**Slope:** Extremely Steep (over 30%)

**Aspect:** South

**Notes:**

**Visit date:** 7/23/2003

**Ecological Health:** Severely Degraded.

**% Tree canopy:** 5%

**% Non-Native Cover:** not recorded

**General Note:**

**Management Note:**

**Eco Note:**

Unit is a RUDI patch on a sidehill below a home site.

**Primary Management concerns:** Invasives.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Rubus discolor (Himalayan blackberry)	over 75% Y				
Prunus laurocerasus (English laurel)	1% to 10%				

**Unit TIDE\*002**

**Size:** 0.14 Acres

**NVCS Class:** Herbaceous

**NVCS Subclass:** Perennial graminoid vegetation

**NVCS Group:** Temperate grassland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** unknown

**Landform:** Broad flat > 600'

**Slope:** Flat (0 to 5%)

**Aspect:** South

**Notes:**

**Visit date: 7/23/2003**

**Ecological Health:** unknown.

**% Tree canopy:** 5%

**% Non-Native Cover:** not recorded

**General Note:**

Mowed lawn being used by neighbors for gardening, sculptures, and a gravesite.

**Management Note:**

**Eco Note:**

**Wetland indicators:** Hydrophilic Vegetation, Saturated Soils.

**Primary Management concerns:** Invasives, Domestic Animals, Encroachment.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Hypochaeris radicata</i> (hairy cats-ear)	20% to 50%	Y			
<i>Fraxinus latifolia</i> (Oregon ash)	1% to 10%		0-5"		Y
<i>Pseudotsuga menziesii</i> (Douglas fir)	1% to 10%		0-5"		Y
<i>Acer circinatum</i> (vine maple)	1% to 10%				
<i>Dactylis glomerata</i> (orchard grass)	1% to 10%				
<i>Equisetum arvense</i> (field horsetail)	1% to 10%				
<i>Plantago lanceolata</i> (English narrowleaf buckhorn)	1% to 10%				
<i>Prunella vulgaris</i> (healall)	1% to 10%				
<i>Rubus discolor</i> (Himalayan blackberry)	1% to 10%				
<i>Abies grandis</i> (grand fir)	trace		0-5"		Y
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (black cott	trace		0-5"	Y	
<i>Thuja plicata</i> (western red cedar)	trace		0-5"		Y
<i>Lolium perenne</i> (Italian perennial ryegrass)		trace			
<i>Senecio jacobaea</i> (tansy ragwort)	trace				
<i>Solanum dulcamara</i> (bittersweet nightshade)	trace				

## Unit TIDE\*003

**Size:** 0.53 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Mixed evergreen-deciduous woodland

**NVCS Group:** Mixed needle-leaved evergreen - cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Broad flat > 600'

**Slope:** Flat (0 to 5%)

**Aspect:** Southeast

**Notes:**

**Visit date: 7/24/2003**

**Ecological Health:** Poor.

**% Tree canopy:** 50%

**% Non-Native Cover:** not recorded

**General Note:**

**Management Note:**

Remove POCU from streambank.

**Eco Note:**

Unit has plantings and borders Johnson Creek. Area is apparently used by neighboring residences for recreation.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Flood Debris, Standing Flowing Water.

**Primary Management concerns:** Invasives, Encroachment.

## Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Alnus rubra</i> (red alder)	20% to 50%	Y	10-20"		Y
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%	Y	10-20"		
<i>Ranunculus repens</i> (creeping buttercup)	20% to 50%	Y			
<i>Fraxinus latifolia</i> (Oregon ash)	10% to 20%		10-20"		
<i>Prunella vulgaris</i> (healall)	10% to 20%				
<i>Thuja plicata</i> (western red cedar)	1% to 10%		5-10"		Y
<i>Agrostis</i> sp. (bentgrass)	1% to 10%				
<i>Holcus lanatus</i> (velvet grass)	1% to 10%				
<i>Lapsana communis</i> (common nipplewort)	1% to 10%				
<i>Phalaris arundinacea</i> (reed canarygrass)	1% to 10%				
<i>Polygonum cuspidatum</i> (Japanese knotweed)	1% to 10%				
<i>Rubus discolor</i> (Himalayan blackberry)	1% to 10%				
<i>Salix rigida</i> var. <i>macrogemma</i> (rigid yellow willow)	1% to 10%				
<i>Tellima grandiflora</i> (fringecup)	1% to 10%				
<i>Urtica dioica</i> (stinging nettle)	1% to 10%				
<i>Robinia pseudo-acacia</i> (black locust)	trace		0-5"		
<i>Clematis vitalba</i> (clematis)	trace				
<i>Crataegus monogyna</i> (European hawthorn)	trace				
<i>Hedera helix</i> (English ivy)	trace				
<i>Impatiens capensis</i> (spotted orange touch-me-not)	trace				
<i>Senecio jacobaea</i> (tansy ragwort)	trace				

## Unit TIDE\*004

**Size:** 4.62 Acres

**NVCS Class:** Shrubland

**NVCS Subclass:** Deciduous shrubland

**NVCS Group:** Cold-deciduous shrubland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Broad flat > 600'

**Slope:** Flat (0 to 5%)

**Aspect:** Southeast

**Notes:**

**Visit date:** 7/24/2003

**Ecological Health:** Poor.

**% Tree canopy:** 25%

**% Non-Native Cover:** not recorded

**General Note:**

**Management Note:**

**Eco Note:**

There are many species of *Carex* in this unit. Most did not have inflorescences and were not identified.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Trampling, Litter, Homeless Camp, Mountain Bike Impact, Informal Trails.

## Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Rubus discolor</i> (Himalayan blackberry)	20% to 50%	Y			
<i>Salix rigida</i> var. <i>macrogemma</i> (rigid yellow willow)	20% to 50%	Y			
<i>Salix scouleriana</i> (Scouler's willow)	20% to 50%	Y			
<i>Cornus sericea</i> ssp. <i>sericea</i> (red-osier dogwood)	20% to 50%				
<i>Impatiens capensis</i> (spotted orange touch-me-not)	10% to 20%	Y			
<i>Oenothera sarmentosa</i> (Pacific water-parsely)	10% to 20%		Y		
<i>Fraxinus latifolia</i> (Oregon ash)	10% to 20%		5-10"	Y	
<i>Solanum dulcamara</i> (bittersweet nightshade)	10% to 20%				
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (black cottonwood)	1% to 10%		10-20"	Y	
<i>Alnus rubra</i> (red alder)	1% to 10%		5-10"		
<i>Abies grandis</i> (grand fir)	1% to 10%		0-5"		Y

Thuja plicata (western red cedar)	1% to 10%	0-5"	Y
Cirsium arvense (Canadian Thistle)	1% to 10%		
Convolvulus arvensis (morning glory)	1% to 10%		
Geum macrophyllum (largeleaf avens)	1% to 10%		
Hedera helix (English ivy)	1% to 10%		
Juncus effusus (common soft Pacific rush)	1% to 10%		
Phalaris arundinacea (reed canarygrass)	1% to 10%		
Scirpus microcarpus (small-fruited bulrush)	1% to 10%		
Cirsium vulgare (bull thistle)	trace		
Crataegus monogyna (European hawthorn)	trace		
Dipsacus sylvestris (teasel)	trace		
Geranium robertianum (herb-Robert)	trace		
Ilex aquafolium (English holly)	trace		
Lathyrus polyphyllus (Pacific leafy peavine)	trace		

## Unit TIDE\*005

**Size:** 1.17 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Deciduous woodland

**NVCS Group:** Cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Bench/Terrace

**Slope:** Flat (0 to 5%)

**Aspect:** South

**Notes:**

**Visit date:** 7/23/2003

**Ecological Health:** Severely Degraded.

**% Tree canopy:** 50%

**% Non-Native Cover:** not recorded

**General Note:**

**Management Note:**

**Eco Note:**

Near split of Johnson Creek side channel.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Litter, Hardscape Infrastructure, Informal Trails.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Populus balsamifera ssp. trichocarpa (black cott)	20% to 50%	Y	10-20"	Y	
Fraxinus latifolia (Oregon ash)	20% to 50%	Y	5-10"	Y	
Crataegus monogyna (European hawthorn)	20% to 50%	Y			
Ilex aquafolium (English holly)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Rubus discolor (Himalayan blackberry)	10% to 20%				
Acer macrophyllum (bigleaf maple)	1% to 10%		5-10"		
Clematis vitalba (clematis)	1% to 10%				
Corylus avellana (common filbert)	1% to 10%				
Phalaris arundinacea (reed canarygrass)	1% to 10%				
Quercus palustris (pin oak)	trace		0-5"	Y	
Geranium robertianum (herb-Robert)	trace				
Solanum dulcamara (bittersweet nightshade)	trace				

## Unit TIDE\*006

**Size:** 1.07 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Deciduous woodland  
**NVCS Group:** Cold-deciduous woodland  
**NVCS SubGroup:** Natural / Semi-natural  
**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland  
**Landform:** Broad flat > 600'  
**Slope:** Flat (0 to 5%)  
**Aspect:** Southwest  
**Notes:**

**Visit date:** 7/23/2003

**Ecological Health:** Severely Degraded.

**% Tree canopy:** 60%

**% Non-Native Cover:** not recorded

**General Note:**

Lots of garbage in the creek including shopping carts.

**Management Note:**

Remove POCU and ACPL.

**Eco Note:**

Some restoration has occurred in Northeast corner of unit. Plantings present and herbicides applied to RUDI.

**Wetland indicators:** Streams, Hydrophilic Vegetation, Standing Flowing Water.

**Primary Management concerns:** Invasives, Litter, Hardscape Infrastructure, Homeless Camp, Informal Trails.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Alnus rubra</i> (red alder)	20% to 50%	Y	10-20"		Y
<i>Crataegus monogyna</i> (European hawthorn)	20% to 50%	Y			
<i>Hedera helix</i> (English ivy)	20% to 50%	Y			
<i>Rubus discolor</i> (Himalayan blackberry)	20% to 50%	Y			
<i>Clematis vitalba</i> (clematis)	10% to 20%				
<i>Ilex aquafolium</i> (English holly)	10% to 20%				
<i>Aesculus hippocastanum</i> (horsechestnut)	1% to 10%		>30"	Y	
<i>Pseudotsuga menziesii</i> (Douglas fir)	1% to 10%		5-10"		Y
<i>Acer macrophyllum</i> (bigleaf maple)	1% to 10%		0-5"		Y
<i>Fraxinus latifolia</i> (Oregon ash)	1% to 10%		0-5"	Y	Y
<i>Robinia pseudo-acacia</i> (black locust)	1% to 10%		0-5"		
<i>Cornus sericea</i> ssp. <i>sericea</i> (red-osier dogwood)	1% to 10%				
<i>Corylus avellana</i> (common filbert)	1% to 10%				
<i>Dactylis glomerata</i> (orchard grass)	1% to 10%				
<i>Elymus glaucus</i> (blue Vancouver wildrye)	1% to 10%				
<i>Holcus lanatus</i> (velvet grass)	1% to 10%				
<i>Oemleria cerasiformis</i> (Indian-plum)	1% to 10%				
<i>Physocarpus capitatus</i> (Pacific ninebark)	1% to 10%				
<i>Polygonum cuspidatum</i> (Japanese knotweed)	1% to 10%				
<i>Acer platanoides</i> (Norway maple)	trace		5-10"		
<i>Cirsium vulgare</i> (bull thistle)	trace				
<i>Dipsacus sylvestris</i> (teasel)	trace				
<i>Epilobium angustifolium</i> (fireweed)	trace				
<i>Lythrum salicaria</i> (purple loosestrife)	trace				
<i>Phalaris arundinacea</i> (reed canarygrass)	trace				
<i>Senecio jacobaea</i> (tansy ragwort)	trace				
<i>Solanum dulcamara</i> (bittersweet nightshade)	trace				
<i>Spiraea douglasii</i> (Douglas' spiraea)	trace				

**Unit TIDE\*008**

**Size:** 0.41 Acres

**NVCS Class:** Herbaceous

**NVCS Subclass:** Perennial graminoid vegetation

**NVCS Group:** Temperate grassland with a sparse tree layer

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** unknown

**Landform:** Broad flat > 600'

**Slope:** Flat (0 to 5%)

**Aspect:** Northwest

**Notes:**

**Visit date:** 7/23/2003

**Ecological Health:** unknown.

**% Tree canopy:** 20%

**% Non-Native Cover:** not recorded

**General Note:**

Unit is a former home site now bulldozed over and mulched. Old kiln/firepit present.

**Management Note:**

Restore compacted dirt area where house used to be. Remove POCU along tributary stream.

**Eco Note:**

**Wetland indicators:** Streams, Hydrophilic Vegetation, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Soil Compaction, Litter, Large Refuse, Utility Infrastructure, Hardscape Infrastructure.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Agrostis sp. (bentgrass)	20% to 50%	Y			
Festuca arundinacea (tall fescue)	20% to 50%	Y			
Holcus lanatus (velvet grass)	20% to 50%	Y			
Malus sp. (cultivated apple tree)	20% to 50%		5-10"		
Ranunculus repens (creeping buttercup)	10% to 20%				
Senecio jacobaea (tansy ragwort)	10% to 20%				
Pinus contorta (lodgepole pine)	1% to 10%		20-30"		
Alnus rubra (red alder)	1% to 10%		10-20"		
Betula papyrifera (paper birch)	1% to 10%		10-20"	Y	
Juglans regia (English walnut)	1% to 10%		10-20"		
Thuja plicata (western red cedar)	1% to 10%		10-20"		
Convolvulus arvensis (morning glory)	1% to 10%				
Dactylis glomerata (orchard grass)	1% to 10%				
Daucus carota (Queen Anne's lace)	1% to 10%				
Equisetum telmateia (giant horsetail)	1% to 10%				
Hedera helix (English ivy)	1% to 10%				
Juncus effusus (common soft Pacific rush)	1% to 10%				
Lotus corniculatus (birdsfoot trefoil)	1% to 10%				
Phalaris arundinacea (reed canarygrass)	1% to 10%				
Plantago lanceolata (English narrowleaf buckhorn)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Solanum dulcamara (bittersweet nightshade)	1% to 10%				
Sonchus oleraceus (sow thistle)	1% to 10%				
Trifolium repens (common clover)	1% to 10%				
Fraxinus latifolia (Oregon ash)	trace		0-5"	Y	
Acer circinatum (vine maple)	trace				
Athyrium filix-femina (ladyfern)	trace				
Cirsium vulgare (bull thistle)	trace				
Cortaderia selloana (Pampas-grass)	trace				
Kniphofia uvaria (red hot poker)	trace				
Lythrum salicaria (purple loosestrife)	trace				
Polygonum cuspidatum (Japanese knotweed)	trace				
Salix rigida var. macrogemma (rigid yellow willo)	trace				
Symphoricarpos albus (snowberry)	trace				

**Unit TIDE\*009**

**Size:** 5.91 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Deciduous woodland

**NVCS Group:** Cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Side-hill, Lower 3rd

**Slope:** Gentle (10 to 20%)

**Aspect:** South

**Notes:**

**Visit date:** 7/24/2003

**Ecological Health:** Fair.

**% Tree canopy:** 50%

**% Non-Native Cover:** not recorded

**General Note:**

GPS reading on POCU.

**Management Note:**

**Eco Note:**

**Wetland indicators:** Streams, Springs, Hydrophilic Vegetation, Water Marks, Saturated Soils, Standing Flowing Water.

**Primary Management concerns:** Invasives, Trampling, Soil Compaction, Litter, Utility Infrastructure, Stream Bank Erosion, Mountain Bike Impact, Informal Trails.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Pseudotsuga menziesii</i> (Douglas fir)	10% to 20%		20-30"		Y
<i>Fraxinus latifolia</i> (Oregon ash)	10% to 20%		10-20"	Y	Y
<i>Prunus avium</i> (sweet pie cherry)	10% to 20%		5-10"	Y	
<i>Cornus sericea</i> ssp. <i>sericea</i> (red-osier dogwood)	10% to 20%				
<i>Holcus lanatus</i> (velvet grass)	10% to 20%				
<i>Physocarpus capitatus</i> (Pacific ninebark)	10% to 20%				Y
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (black cott)	1% to 10%		10-20"	Y	
<i>Thuja plicata</i> (western red cedar)	1% to 10%		10-20"	Y	Y
<i>Acer platanoides</i> (Norway maple)	1% to 10%		0-5"		
<i>Alnus rubra</i> (red alder)	1% to 10%		0-5"		
<i>Corylus avellana</i> (common filbert)	1% to 10%				
<i>Oemleria cerasiformis</i> (Indian-plum)	1% to 10%				
<i>Phalaris arundinacea</i> (reed canarygrass)	1% to 10%				
<i>Polygonum cuspidatum</i> (Japanese knotweed)	1% to 10%				
<i>Salix hookeriana</i> (dune willow)	1% to 10%				
<i>Salix lucida</i> ssp. <i>lasiandra</i> (Pacific willow)	1% to 10%				
<i>Salix sitchensis</i> (Sitka willow)	1% to 10%				
<i>Stachys cooleyae</i> (Cooley's hedgenettle)	1% to 10%				
<i>Symphoricarpos albus</i> (snowberry)	1% to 10%				
<i>Veronica americana</i> (American brooklime)	1% to 10%				
<i>Abies grandis</i> (grand fir)	trace		0-5"		Y
<i>Lysichiton americanus</i> (American yellow skunkcabb)	trace				
<i>Lythrum salicaria</i> (purple loosestrife)	trace				
<i>Ribes sanguineum</i> (red-flowering currant)	trace				Y
<i>Robinia pseudo-acacia</i> (black locust)	trace				
<i>Rorippa nasturtium-aquaticum</i> (Watercress)	trace				

**Unit TIDE\*010**

**Size:** 0.43 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Deciduous woodland

**NVCS Group:** Cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.869 North Pacific Lowland Riparian Forest and Shrubland

**Landform:** Other

**Slope:** Steep (20 to 30%)

**Aspect:** North

**Visit date: 7/23/2003**

**Ecological Health: Poor.**

**% Tree canopy: 55%**

**% Non-Native Cover: not recorded**

**General Note:**

This unit is a streambank.

**Management Note:**

Get rid of POCU.

**Eco Note:**

POCU lines the creek along the whole unit. Unit consists of large cobble substrate.

**Wetland indicators: Streams, Hydrophilic Vegetation, Flood Debris, Standing Flowing Water.**

**Primary Management concerns: Invasives, Erosion, Litter, Large Refuse, Hardscape Infrastructure.**

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Populus balsamifera ssp. trichocarpa (black cott	20% to 50%	Y	10-20"	Y	
Fraxinus latifolia (Oregon ash)	20% to 50%	Y	5-10"	Y	
Impatiens capensis (spotted orange touch-me-not)	20% to 50%	Y			
Salix rigida var. macrogemma (rigid yellow willo	20% to 50%	Y			
Hedera helix (English ivy)	20% to 50%				
Acer macrophyllum (bigleaf maple)	10% to 20%		10-20"	Y	
Alnus rubra (red alder)	10% to 20%		10-20"		
Phalaris arundinacea (reed canarygrass)	10% to 20%				
Polygonum cuspidatum (Japanese knotweed)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Symphoricarpos albus (snowberry)	10% to 20%				
Convolvulus arvensis (morning glory)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Lythrum salicaria (purple loosestrife)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Sambucus racemosa (red elderberry)	1% to 10%				
Solanum dulcamara (bittersweet nightshade)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Ilex aquafolium (English holly)	trace				
Mimulus guttatus (yellow monkeyflower)	trace				
Senecio jacobaea (tansy ragwort)	trace				

**Unit TIDE\*011**

**Size: 0.68 Acres**

**NVCS Class: Herbaceous**

**NVCS Subclass: Perennial graminoid vegetation**

**NVCS Group: Temperate grassland**

**NVCS SubGroup: Natural / Semi-natural**

**NVCS Ecological System: CES200.877 Temperate Pacific Freshwater Emergent Marsh**

**Landform: Broad flat > 600'**

**Slope: Flat (0 to 5%)**

**Aspect: North**

**Notes:**

**Visit date: 7/24/2003**

**Ecological Health: Fair.**

**% Tree canopy: 0%**

**% Non-Native Cover: not recorded**

**General Note:**

Unit is an open wetland with RUDI and CRMO beginning to establish themselves.

**Management Note:**

Remove invasives so they do not overtake the native species.

**Eco Note:**



Small wetland south of Johnson Creek with lots of JUEF

**Wetland indicators:** Hydrophilic Vegetation, Water Marks.

**Primary Management concerns:** Invasives, Litter, Large Refuse, Informal Trails.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Holcus lanatus (velvet grass)	20% to 50%	Y			
Juncus effusus (common soft Pacific rush)	20% to 50%	Y			
Rubus discolor (Himalayan blackberry)	20% to 50%				
Phalaris arundinacea (reed canarygrass)	10% to 20%				
Alopecurus pratensis (meadow foxtail)	1% to 10%				
Cirsium arvense (Canadian Thistle)	1% to 10%				
Cornus sericea ssp. sericea (red-osier dogwood)	1% to 10%				
Epilobium ciliatum ssp. watsonii (fringed willow)	1% to 10%				
Lotus corniculatus (birdsfoot trefoil)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Salix hookeriana (dune willow)	1% to 10%				
Solanum dulcamara (bittersweet nightshade)	1% to 10%				
Stachys cooleyae (Cooley's hedgenettle)	1% to 10%				
Fraxinus latifolia (Oregon ash)	trace		0-5"		Y
Cirsium vulgare (bull thistle)	trace				
Crataegus monogyna (European hawthorn)	trace			Y	
Urtica dioica (stinging nettle)	trace				

## Unit TIDE\*012

**Size:** 0.92 Acres

**NVCS Class:** Woodland

**NVCS Subclass:** Deciduous woodland

**NVCS Group:** Cold-deciduous woodland

**NVCS SubGroup:** Natural / Semi-natural

**NVCS Ecological System:** CES204.846 North Pacific Broadleaf Mesic Seral Forest

**Landform:** Side-hill, Lower 3rd

**Slope:** Gentle (5 to 10%)

**Aspect:** North

**Notes:**

**Visit date:** 7/24/2003

**Ecological Health:** Poor.

**% Tree canopy:** 45%

**% Non-Native Cover:** not recorded

**General Note:**

**Management Note:**

Remove HEHE, RUDI, and ILAQ before they take over the wetland adjacent to the unit.

**Eco Note:**

Unit sits between a wetland and a farm/business. South edge of unit slopes up. Invasives moving into wetland from north side.

**Wetland indicators:** Hydrophilic Vegetation.

**Primary Management concerns:** Invasives, Litter, Large Refuse.

**Visit Species:**

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Fraxinus latifolia (Oregon ash)	20% to 50%	Y	10-20"	Y	
Oemleria cerasiformis (Indian-plum)	20% to 50%	Y			
Rubus discolor (Himalayan blackberry)	10% to 20%				
Prunus avium (sweet pie cherry)	1% to 10%		5-10"		
Acer circinatum (vine maple)	1% to 10%				
Galium aparine (cleavers)	1% to 10%				
Geranium robertianum (herb-Robert)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Stachys cooleyae (Cooley's hedgenettle)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				

<i>Ilex aquafolium</i> (English holly)	trace
<i>Lactuca muralis</i> (wall lettuce)	trace
<i>Rosa gymnocarpa</i> (dwarf wood rose)	trace
<i>Tellima grandiflora</i> (fringecup)	trace