



Vegetation Unit Summaries for **Pittock Mansion Acres (PITT)**

Report date: 7/29/2009

'*' = non-native invasive species

Visit data as of: 7/29/2009

Unit PITT*001

Size: 10.11 Acres

NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: North

Notes:

Visit date: 6/9/2004

Ecological Health: Fair.

% Tree canopy: 70%

% Non-Native Cover: 40

General Note:

Densely forested with many large PSME's. Several burrows were found on the slope north of Pittock Mansion.

Management Note:

Weeds mainly restricted to open areas and overgrown roads. HEHE is mostly constrained to the northeast part of the unit.

Eco Note:

Regenerating ABGR serves as a secondary canopy. Very steep slope facing north, northwest. Unit has good structural diversity but ivy have infested a large section of the total area. Measured a PSME with a DBH of 65.8.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Acer macrophyllum (bigleaf maple)	50% to 75%	Y	10-20"	Y	
Hedera helix (English ivy)	20% to 50%	Y			
Polystichum munitum (sword fern)	20% to 50%	Y			
Pseudotsuga menziesii (Douglas fir)	10% to 20%		>30"		
Oemleria cerasiformis (Indian-plum)	1% to 10%	Y			
Sambucus racemosa (red elderberry)	1% to 10%	Y			
Tsuga heterophylla (western hemlock)	1% to 10%		10-20"	Y	
Abies grandis (grand fir)	1% to 10%		5-10"	Y	
Acer circinatum (vine maple)	1% to 10%				
Achlys triphylla (vanillaleaf)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Disporum hookeri (Hooker's fairybells)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Viola glabella (stream violet)	1% to 10%				

Prunus cerasifera (cherry plum)	trace	0-5"
Actaea rubra (red baneberry)	trace	
Asarum caudatum (wild ginger)	trace	
Cirsium vulgare (bull thistle)	trace	
Digitalis purpurea (purple foxglove)	trace	
Epilobium ciliatum ssp. watsonii (fringed willow)	trace	
Galium aparine (cleavers)	trace	
Geranium robertianum (herb-Robert)	trace	
Geum macrophyllum (largeleaf avens)	trace	
Holcus lanatus (velvet grass)	trace	
Lactuca muralis (wall lettuce)	trace	
Philadelphus lewisii (Lewis' mockorange)	trace	
Prunus laurocerasus (English laurel)	trace	
Rumex obtusifolius (bitter dock)	trace	
Smilacina racemosa (false Solomon's-seal)	trace	
Smilacina stellata (starry false-Solomon's seal)	trace	
Tellima grandiflora (fringecup)	trace	
Vaccinium parvifolium (red huckleberry)	trace	

Unit PITT*002

Size: 0.28 Acres

NVCS Class: Sparse vegetation

NVCS Subclass: Consolidated rock sparse vegetation

NVCS Group: Sparsely vegetated bedrock or pavement

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown

Slope: unknown

Aspect: unknown

Unit PITT*003

Size: 2.2 Acres

NVCS Class: Herbaceous

NVCS Subclass: Perennial graminoid vegetation

NVCS Group: Temperate grassland with a sparse tree layer

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown

Slope: unknown

Aspect: unknown

Notes: 6.10.04 This unit is a garden for Pittock mansion.

Unit PITT*004

Size: 0.91 Acres

NVCS Class: Sparse vegetation

NVCS Subclass: Consolidated rock sparse vegetation

NVCS Group: Sparsely vegetated bedrock or pavement

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown

Slope: unknown

Aspect: East

Notes: 6.10.04 This unit is a parking lot for Pittock mansion.

Unit PITT*005

Size: 0.91 Acres

NVCS Class: Woodland

NVCS Subclass: Mixed evergreen-deciduous woodland

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

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown

Slope: unknown

Aspect: unknown

Notes: 6.10.04 This unit is a garden for Pittock mansion.

Unit PITT*006

Size: 1.3 Acres

NVCS Class: Sparse vegetation

NVCS Subclass: Consolidated rock sparse vegetation

NVCS Group: Sparsely vegetated bedrock or pavement

NVCS SubGroup: Cultural

NVCS Ecological System: unknown

Landform: unknown

Slope: unknown

Aspect: unknown

Notes: 6.10.04 This unit is the road entrance to Pittock mansion.

Unit PITT*007

Size: 8.47 Acres

NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.845 North Pacific Dry Douglas-fir Forest and Woodland

Landform: Side-hill, Lower 3rd

Slope: Extremely Steep (over 30%)

Aspect: Southeast

Notes:

Visit date: 6/8/2004

Ecological Health: Poor.

% Tree canopy: 70%

% Non-Native Cover: 50

General Note:

Lilium columbiana (species of interest) found below lower right of way.

Management Note:

Many old overgrown rights of way criss-crossing the unit have a canopy that is slightly more open than rest of unit. These rights of way are more weedy than surrounding areas.

Eco Note:

This area is significant habitat as an area for neotropical migratory birds.

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

Primary Management concerns: Invasives, Erosion, Utility Infrastructure, Hardscape Infrastructure, Stream Bank Erosion.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Hedera helix</i> (English ivy)	20% to 50%	Y			
<i>Polystichum munitum</i> (sword fern)	20% to 50%	Y			
<i>Pseudotsuga menziesii</i> (Douglas fir)	20% to 50%		20-30"		
<i>Acer circinatum</i> (vine maple)	10% to 20%	Y			

Alnus rubra (red alder)	1% to 10%	10-20"	
Abies grandis (grand fir)	1% to 10%	5-10"	Y
Clematis vitalba (clematis)	1% to 10%		
Corylus avellana (common filbert)	1% to 10%		
Corylus cornuta (western beaked hazelnut)	1% to 10%		
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%		
Ilex aquafolium (English holly)	1% to 10%		
Lapsana communis (common nipplewort)	1% to 10%		
Oemleria cerasiformis (Indian-plum)	1% to 10%		
Rosa gymnocarpa (dwarf wood rose)	1% to 10%		
Rubus parviflorus (thimbleberry)	1% to 10%		
Urtica dioica (stinging nettle)	1% to 10%		
Aesculus hippocastanum (horsechestnut)	trace	0-5"	
Fraxinus latifolia (Oregon ash)	trace	0-5"	Y
Sorbus aucuparia (European mountain ash)	trace	0-5"	
Crataegus monogyna (European hawthorn)	trace		
Geranium robertianum (herb-Robert)	trace		
Lilium columbianum (tiger-lily)	trace		
Rumex obtusifolius (bitter dock)	trace		

Unit PITT*008

Size: 7.21 Acres

NVCS Class: Forest

NVCS Subclass: Evergreen forest

NVCS Group: Temperate needle-leaved evergreen forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: South

Notes:

Visit date: 6/8/2004

Ecological Health: Fair.

% Tree canopy: 80%

% Non-Native Cover: 35

General Note:

Lonicera ciliosa found along upper (paved) right-of-way east of intersection with Wildwood Trail.

Management Note:

Ivy removal has taken place in this unit.

Eco Note:

This area is significant habitat as an area for neotropical migratory birds.

Wetland indicators: Streams, Surface Water, Saturated Soils, Standing Flowing Water.

Primary Management concerns: Litter.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%	Y	20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%		10-20"	Y	
Acer circinatum (vine maple)	10% to 20%	Y			
Gaultheria shallon (salal)	10% to 20%				
Polystichum munitum (sword fern)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		10-20"	Y	
Alnus rubra (red alder)	1% to 10%		10-20"		
Tsuga heterophylla (western hemlock)	1% to 10%		10-20"	Y	
Prunus avium (sweet pie cherry)	1% to 10%		5-10"	Y	
Athyrium filix-femina (ladyfern)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Galium aparine (cleavers)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Oemleria cerasiformis (Indian-plum)	1% to 10%				
Rubus discolor (Himalayan blackberry)	1% to 10%				

Rubus parviflorus (thimbleberry)	1% to 10%	
Rubus ursinus (trailing blackberry)	1% to 10%	
Sambucus racemosa (red elderberry)	1% to 10%	
Taxus brevifolia (Pacific yew)	trace	5-10"
Corylus avellana (common filbert)	trace	
Crataegus monogyna (European hawthorn)	trace	
Geranium robertianum (herb-Robert)	trace	
Glechoma hederacea (Ground-ivy)	trace	
Lapsana communis (common nipplewort)	trace	
Lonicera ciliosa (western orange honeysuckle)	trace	
Prunus laurocerasus (English laurel)	trace	
Rumex obtusifolius (bitter dock)	trace	
Vaccinium parvifolium (red huckleberry)	trace	

Unit PITT*009

Size: 12.97 Acres

NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.002 North Pacific Maritime Wet-Mesic Douglas-fir-

Western Hemlock Forest

Landform: Side-hill, Lower 3rd

Slope: Extremely Steep (over 30%)

Aspect: Southeast

Notes:

Visit date: 6/8/2004

Ecological Health: Fair.

% Tree canopy: 75%

General Note:

Western portion of unit has much more ivy than rest of unit. This could be a possible basis for splitting the unit.

Management Note:

Eco Note:

This area is significant habitat for neotropical migratory birds.

Wetland indicators: Streams, Surface Water, Saturated Soils.

Primary Management concerns: Invasives, Domestic Animals, Hardscape Infrastructure, Stream Bank Erosion, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	50% to 75%	Y			
Pseudotsuga menziesii (Douglas fir)	20% to 50%		20-30"		
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"	Y	
Acer circinatum (vine maple)	20% to 50%				
Polystichum munitum (sword fern)	10% to 20%				
Abies grandis (grand fir)	1% to 10%		5-10"	Y	
Athyrium filix-femina (ladyfern)	1% to 10%				
Berberis nervosa (Oregon grape)	1% to 10%				
Corylus cornuta (western beaked hazelnut)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Hydrophyllum tenuipes (Pacific waterleaf)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Rubus ursinus (trailing blackberry)	1% to 10%				
Alnus rubra (red alder)	trace		5-10"		
Prunus sp. (cultivated cherry tree)	trace		5-10"		
Cornus nuttallii (Pacific dogwood)	trace		0-5"		
Sorbus aucuparia (European mountain ash)	trace		0-5"		
Crataegus monogyna (European hawthorn)	trace				
Dactylis glomerata (orchard grass)	trace				
Daucus carota (Queen Anne's lace)	trace				
Geranium robertianum (herb-Robert)	trace				

Lapsana communis (common nipplewort) trace
 Rumex obtusifolius (bitter dock) trace

Unit PITT*010

Size: 1.95 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: Extremely Steep (over 30%)
Aspect: South
Notes:

Visit date: 6/9/2004

Ecological Health: Poor.

% Tree canopy: 40%

% Non-Native Cover: 80

General Note:

Yard debris littered along west edge of unit just off road running up to Pittock mansion. At the south edge of unit at bottom there is a storm drain. Burnside borders the bottom of this unit creating a lot of road noise.

Management Note:

This unit is badly infested with HEHE and RUDI. Because there is so much invasive removal to be done at Pittock Acres--concentrating restoration efforts around trails would be a place to start. However if this unit is left alone it will continue to infect other surrounding units.

Eco Note:

Very steep ravine running south to Burnside. Houses and road border west side. Several large downed logs run all the way through unit ravine.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Litter, Yard Debris, Utility Infrastructure.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75% Y				
Acer macrophyllum (bigleaf maple)	20% to 50%	Y	10-20"		
Rubus discolor (Himalayan blackberry)	20% to 50%				
Rubus spectabilis (salmonberry)	10% to 20%				
Alnus rubra (red alder)	1% to 10%		10-20"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Acer circinatum (vine maple)	1% to 10%				
Ilex aquafolium (English holly)	1% to 10%				
Rubus parviflorus (thimbleberry)	1% to 10%				
Urtica dioica (stinging nettle)	1% to 10%				
Prunus avium (sweet pie cherry)	trace		5-10"		
Prunus emarginata (bitter cherry)	trace		5-10"		
Persea sp. (bay laurel)	trace		0-5"		
Actaea rubra (red baneberry)	trace				
Corylus avellana (common filbert)	trace				
Galium aparine (cleavers)	trace				
Geranium robertianum (herb-Robert)	trace				
Oenanthe sarmentosa (Pacific water-parsely)	trace	trace			
Rumex obtusifolius (bitter dock)	trace				
Vinca minor (common small-leaf periwinkle)	trace				

Unit PITT*011

Size: 1.44 Acres
NVCS Class: Forest
NVCS Subclass: Deciduous forest

NVCS Group: Cold-deciduous forest
NVCS SubGroup: Natural / Semi-natural
NVCS Ecological System: CES204.846 North Pacific Broadleaf Mesic Seral Forest
Landform: Ridge top/peak < 120'
Slope: Extremely Steep (over 30%)
Aspect: Southeast

Visit date: 6/9/2004

Ecological Health: Poor.

% Tree canopy: 65%

% Non-Native Cover: 80

General Note:

Trees have been cut to increase view from Pittock mansion--because of this the number of invasives is high.

Management Note:

Restoring this area into a more cultivated garden would allow for the view and decrease the number of invasives.

Eco Note:

Small steep slope at top of ridge bordered by houses, the Pittock gardens, and a large undeveloped north facing slope.

Wetland indicators: Hydrophilic Vegetation.

Primary Management concerns: Invasives, Tree Topping, Informal Trails.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
Hedera helix (English ivy)	over 75%				
Polystichum munitum (sword fern)	20% to 50%	Y			
Rubus discolor (Himalayan blackberry)	20% to 50%				
Acer macrophyllum (bigleaf maple)	10% to 20%	Y	5-10"	Y	
Abies grandis (grand fir)	1% to 10%		10-20"		
Pseudotsuga menziesii (Douglas fir)	1% to 10%		10-20"		
Tsuga heterophylla (western hemlock)	1% to 10%		10-20"		
Clematis vitalba (clematis)	1% to 10%				
Gaultheria shallon (salal)	1% to 10%				
Trillium ovatum (trillium)	1% to 10%				
Vancouveria hexandra (white inside-out-flower)	1% to 10%				
Asarum caudatum (wild ginger)	trace				
Crataegus monogyna (European hawthorn)	trace				
Disporum hookeri (Hooker's fairybells)	trace				
Holodiscus discolor (oceanspray)	trace				
Hydrophyllum tenuipes (Pacific waterleaf)	trace				
Lathyrus latifolius (perennial pea)	trace				
Sambucus racemosa (red elderberry)	trace				
Vaccinium parvifolium (red huckleberry)	trace				
Viola glabella (stream violet)	trace				

Unit PITT*012

Size: 7.17 Acres

NVCS Class: Forest

NVCS Subclass: Mixed evergreen-deciduous forest

NVCS Group: Mixed needle-leaved evergreen - cold-deciduous forest

NVCS SubGroup: Natural / Semi-natural

NVCS Ecological System: CES204.001 North Pacific Maritime Dry-Mesic Douglas-fir-Western Hemlock Forest

Landform: Side-hill, Upper 3rd

Slope: Extremely Steep (over 30%)

Aspect: South

Visit date: 6/9/2004

Ecological Health: Fair.

% Tree canopy: 75%

% Non-Native Cover: 75

General Note:

Species of interest: *Carex obnupta*, *Monotropa uniflora*

Management Note:

Several plastic bags of trash found scattered and buried in unit up from road to Pittock mansion. Most of the invasive (except HEHE) were near the road.

Eco Note:

Steep south facing slope running down to Pittock mansion entrance road.

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

Primary Management concerns: Invasives, Litter, Stream Bank Erosion.

Visit Species:

	COVER CLASS	DOMINANT	DBH	REGENERATING	PLANTED
<i>Hedera helix</i> (English ivy)	50% to 75%				
<i>Acer macrophyllum</i> (bigleaf maple)	20% to 50%	Y	10-20"	Y	
<i>Acer circinatum</i> (vine maple)	20% to 50%	Y			
<i>Berberis nervosa</i> (Oregon grape)	20% to 50%	Y			
<i>Polystichum munitum</i> (sword fern)	20% to 50%	Y			
<i>Pseudotsuga menziesii</i> (Douglas fir)	10% to 20%	Y	20-30"		
<i>Gaultheria shallon</i> (salal)	10% to 20%	Y			
<i>Hydrophyllum tenuipes</i> (Pacific waterleaf)	10% to 20%	Y			
<i>Alnus rubra</i> (red alder)	1% to 10%		10-20"		
<i>Tsuga heterophylla</i> (western hemlock)	1% to 10%		10-20"	Y	
<i>Abies grandis</i> (grand fir)	1% to 10%		5-10"	Y	
<i>Corylus avellana</i> (common filbert)	1% to 10%				
<i>Corylus cornuta</i> (western beaked hazelnut)	1% to 10%				
<i>Ilex aquafolium</i> (English holly)	1% to 10%				
<i>Sambucus racemosa</i> (red elderberry)	1% to 10%				
<i>Vaccinium parvifolium</i> (red huckleberry)	1% to 10%				
<i>Sorbus aucuparia</i> (European mountain ash)	trace		0-5"		
<i>Carex obnupta</i> (slough sedge)	trace				
<i>Crataegus monogyna</i> (European hawthorn)	trace				
<i>Cytisus scoparius</i> (Scot's broom)	trace				
<i>Digitalis purpurea</i> (purple foxglove)	trace				
<i>Holcus lanatus</i> (velvet grass)	trace				
<i>Monotropa uniflora</i> (indianpipe)	trace				
<i>Oemleria cerasiformis</i> (Indian-plum)	trace				
<i>Phacelia heterophylla</i> (varileaf phacelia)	trace				
<i>Senecio jacobaea</i> (tansy ragwort)	trace				
<i>Vancouveria hexandra</i> (white inside-out-flower)	trace				