Photographs and Descriptions of Representative Pedons by Site
Site: A  
Classification: Typic Vitricryand

Location: North-central edge of the park; Northwest over Scarface ridge from Lake Eleanor.

Dominant Characteristics: high elevation, southwest-facing slopes

Parent Material: ash over glacial till
Slope: 45%
Aspect: 220°
Elevation: 1705 meters
Vegetation Association: Abies amabilis/Rubus lasiococcus
Climate: cryic, udic

<table>
<thead>
<tr>
<th>Horizon</th>
<th>Depth (cm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>O_i</td>
<td>0 - 4</td>
<td>Loose forest litter, needles, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>A</td>
<td>4 - 8</td>
<td>Very dark brown (10YR 2/2) paragravelly ashy loamy sand, very dark grayish brown (10YR 3/2) dry; fine subangular blocky structure; very friable; 20 percent pumice gravels; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Bw1</td>
<td>8 - 34</td>
<td>Very dark grayish brown (10YR 3/2) paragravelly ashy sandy loam, dark greyish brown (10YR 4/2) dry; medium subangular blocky structure; very friable; 30 percent pumice gravels; gradual smooth boundary.</td>
</tr>
<tr>
<td>Bw2</td>
<td>34 - 49</td>
<td>Dark grayish brown (10YR 4/2) paragravelly ashy sandy loam, grayish brown (10YR 5/2) dry; medium subangular blocky structure; very friable; 20 percent pumice gravels; clear smooth boundary.</td>
</tr>
<tr>
<td>2Bw3</td>
<td>49 - 74</td>
<td>Dark yellowish brown (10YR 4/4) extremely gravelly sandy loam, dark yellowish brown (10YR 4/6) dry; medium subangular blocky structure; friable; 60 percent gravel; gradual smooth boundary.</td>
</tr>
</tbody>
</table>
2Bw4  74 - 116  Dark yellowish brown (10YR 4/6) extremely gravelly sandy loam, yellowish (10YR 5/6) dry; medium subangular blocky structure; friable; 70 percent gravel, 10 percent cobbles.
**Site:** B  
**Classification:** Andic Haplocryod  

**Location:** Northeast corner of the park; in Doe Creek drainage  
**Dominant Characteristics:** moderate north-facing slopes, high elevation  
**Parent Material:** ash over glacial till  
**Slope:** 24%  
**Aspect:** 324°  
**Elevation:** 1555 meters  
**Vegetation Association:** Abies amabilis/Menziesia ferruginea  
**Climate:** cryic, udic

<table>
<thead>
<tr>
<th>Horizon</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Oi</td>
<td>0 - 4</td>
<td>Forest litter, needles, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>E</td>
<td>4 - 8</td>
<td>Dark gray (10YR 4/1) ashy sand, gray (10YR 5/1) dry; single grained, loose; 5 percent pumice gravels; clear smooth boundary.</td>
</tr>
<tr>
<td>Bhs</td>
<td>8 - 32</td>
<td>Dark brown (10YR 3/3) paragravelly ashy loamy sand, brown (10YR 4/3) dry; coarse subangular blocky structure; firm; 25 percent pumice gravels; clear smooth boundary.</td>
</tr>
<tr>
<td>Bs</td>
<td>32 - 44</td>
<td>Yellowish brown (10YR 5/6) ashy loamy sand, brownish yellow (10YR 6/6) dry; medium subangular blocky structure; friable; 5 percent pumice gravels; clear smooth boundary.</td>
</tr>
<tr>
<td>Bw1</td>
<td>44 - 54</td>
<td>Dark brown (10YR 3/3) sandy loam, brown (10YR 4/3) dry; medium subangular blocky structure; firm; 10 percent gravel; gradual smooth boundary.</td>
</tr>
<tr>
<td>Bw2</td>
<td>54 - 57</td>
<td>Dark yellowish brown (10YR 4/4) sandy loam, yellowish brown (10YR...</td>
</tr>
</tbody>
</table>
5/4) dry; medium subangular blocky structure; firm; 5 percent gravel; gradual smooth boundary.

Bw3  57 - 92  Brown (10YR 4/3) sandy loam, brown (10YR 5/3) dry; medium subangular blocky structure; firm; 5 percent gravel; clear smooth boundary.

2Bw4  92 - 105  Yellowish brown (10YR 5/6) very gravelly sandy loam, brownish yellow (10YR 6/6) dry; medium subangular blocky structure; firm; 40 percent gravel, 10 percent cobbles.
Site: C

Classification: Andic Haplocryod

Location: North-central edge of the park; Due west over Scarface ridge from Lake Eleanor.

Dominant Characteristics: steep northeast-facing slopes, high elevation

Parent Material: ash over glacial till
Slope: 66%
Aspect: 55°
Elevation: 1513 meters
Vegetation Association: *Abies amabilis*/*Vaccinium alaskaense*
Climate: cryic, udic

<table>
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</thead>
<tbody>
<tr>
<td>Oi</td>
<td>0 - 5</td>
<td>Loose forest litter, needles, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>E</td>
<td>5 - 12</td>
<td>Dark gray (10YR 4/1) paragravelly ashy loamy sand, gray (10YR 5/1) dry; very fine subangular blocky structure; 25 percent pumice gravels; abrupt wavy boundary.</td>
</tr>
<tr>
<td>Bhs</td>
<td>12 - 16</td>
<td>Dark brown (7.5YR 3/2) paragravelly ashy loamy sand, brown (7.5YR 4/2) dry; medium subangular blocky structure; very friable; 20 percent pumice gravels; abrupt wavy boundary.</td>
</tr>
<tr>
<td>Bs</td>
<td>16 - 32</td>
<td>Very dark grayish brown (10YR 3/2) paragravelly ashy loamy sand, dark grayish brown (10YR 4/2) dry; medium subangular blocky structure; very friable; 30 percent pumice gravels, 2 percent stones; abrupt smooth boundary.</td>
</tr>
<tr>
<td>2Bw1</td>
<td>32 - 45</td>
<td>Dark yellowish brown (10YR 4/4) extremely gravelly sandy loam, yellowish brown (10 YR 5/4) dry; medium subangular blocky structure; very friable; 30 percent gravel, 20 percent stones, 10 percent boulders; clear smooth boundary.</td>
</tr>
</tbody>
</table>
Location: West side of the park near Mowich Lake; between August and Virginia peaks.

**Dominant Characteristics:** high precipitation, west-facing slopes

**Parent Material:** ash over glacial till

**Slope:** 48%

**Aspect:** 232°

**Elevation:** 1344 meters

**Vegetation Association:** *Abies amabilis/Tiarella Trifoliata*

**Climate:** frigid, udic

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</thead>
<tbody>
<tr>
<td>Oi</td>
<td>0 - 2</td>
<td>Forest litter, needles, moss, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>A</td>
<td>2 - 6</td>
<td>Black (10YR 2/1) ashy loamy sand, dark gray (10YR 4/1) dry; medium subangular blocky structure; friable; 5 percent pumice gravels; abrupt wavy boundary.</td>
</tr>
<tr>
<td>E</td>
<td>6 - 10</td>
<td>Very dark gray (10YR 3/1) ashy loamy sand, gray (10YR 5/1) dry; fine subangular blocky structure; friable; 5 percent pumice gravels; abrupt wavy boundary.</td>
</tr>
</tbody>
</table>
Site: E

Classification: Andic Dystrudept

Location: Just south of the Carbon River Ranger Station (Northwest Park entrance).

Dominant Characteristics: steep north-facing slopes, low elevation

Parent Material: ash over glacial till

Slope: 63%

Aspect: 333°

Elevation: 748 meters

Vegetation Association: Tsuga heterophylla/Polystichum munitum

Climate: frigid, udic

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>O_i</td>
<td>0 - 1</td>
<td>Forest litter, needles, moss, and twigs; clear smooth boundary.</td>
</tr>
<tr>
<td>A</td>
<td>1 - 8</td>
<td>Very dark gray (10YR 3/1) ashy loamy sand, dark gray (10YR 4/1) dry; very fine subangular blocky structure; friable; abrupt smooth</td>
</tr>
</tbody>
</table>
Site: F

Classification: Andic Haplocryept

Location: West side of park near Mowich Lake; north of the Mowich River off of Paul Peak Trail.

Dominant Characteristics: moderate south-facing slopes, low elevation

Parent Material: ash over glacial till

<table>
<thead>
<tr>
<th>AB</th>
<th>8 - 15</th>
<th>Very dark grayish brown (10YR 3/2) ashy loamy sand, dark grayish brown (10YR 4/2) dry; medium subangular blocky structure; friable; clear smooth boundary.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2Bw1</td>
<td>15 - 34</td>
<td>Brown (7.5YR 4/3) loamy sand, brown (7.5YR 5/3) dry; medium subangular blocky structure; very friable; clear smooth boundary.</td>
</tr>
<tr>
<td>2Bw2</td>
<td>34 - 42</td>
<td>Brown (7.5YR 4/4) sandy loam, brown (7.5YR 5/4) dry; medium subangular blocky structure; friable; 10 percent gravel; gradual smooth boundary.</td>
</tr>
<tr>
<td>2Bw3</td>
<td>42-58</td>
<td>Brown (7.5YR 4/4) gravelly sandy loam, brown (7.5YR 5/4) dry; fine subangular blocky structure; friable; 30 percent gravel; clear smooth boundary.</td>
</tr>
<tr>
<td>2Bw4</td>
<td>58 - 83</td>
<td>Yellowish brown (10YR 5/6) very gravelly sandy loam, brownish yellow (10YR 6/6) dry; medium subangular blocky structure; firm; 30 percent gravel, 5 percent cobbles; gradual smooth boundary.</td>
</tr>
<tr>
<td>2Bw5</td>
<td>83 - 102</td>
<td>Yellowish brown (10YR 5/6) very gravelly sandy loam, brownish yellow (10YR 6/6) dry; fine subangular blocky structure; friable; 50 percent gravel, 5 percent cobbles.</td>
</tr>
</tbody>
</table>
**Slope:** 38%
**Aspect:** 222°
**Elevation:** 1031 meters

*Vegetation Association:* *Tsuga heterophylla/Gaultheria shallon*

*Climate:* low cryic, udic

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</thead>
<tbody>
<tr>
<td>O</td>
<td>0 - 1</td>
<td>Forest litter, needles, moss, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>A</td>
<td>1 - 3</td>
<td>Very dark gray (10YR 3/1) paragravelly ashy loamy sand, gray (10YR 5/1) dry; fine granular structure; 20 percent pumice gravels; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Bw1</td>
<td>3 - 10</td>
<td>Dark grayish brown (10YR 4/2) ashy loamy sand, grayish brown (10YR 5/2) dry; fine subangular blocky structure; very friable; 10 percent pumice gravels; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Bw2</td>
<td>10 - 35</td>
<td>Yellowish brown (10YR 5/4) paragravelly ashy loamy sand, light yellowish brown (10YR 6/4) dry; medium subangular blocky structure; friable; 30 percent pumice gravels; clear smooth boundary.</td>
</tr>
<tr>
<td>2Bw3</td>
<td>35 - 53</td>
<td>Dark yellowish brown (10YR 4/4) very gravelly sandy loam, yellowish brown (10YR 5/4) dry; fine subangular blocky structure; very friable; 50 percent gravel, 5 percent cobbles; clear smooth boundary.</td>
</tr>
<tr>
<td>2Bw4</td>
<td>53 - 70</td>
<td>Dark yellowish brown (10YR 4/4) very gravelly sandy loam, yellowish brown (10YR 5/4) dry; medium subangular blocky structure; friable; 50 percent gravel, 5 percent cobbles; abrupt smooth boundary.</td>
</tr>
<tr>
<td>2Bw5</td>
<td>70 - 123</td>
<td>Dark yellowish brown (10YR 4/4) very gravelly sandy loam, yellowish brown (10YR 5/4) dry; medium subangular blocky structure; firm; 40 percent gravel; 10 percent cobbles.</td>
</tr>
</tbody>
</table>
Site: G

Classification: Aquandic Fluvaquents

Location: Near Nisqually Park Entrance; northeast of the junction of the Nisqually River and Tahoma Creek.

Dominant Characteristic: low elevation, flat

Parent Material: alluvial deposits
Slope: 6%
Aspect: 180°
Elevation: 656 meters
Vegetation Association: Tsuga heterophylla/Oplopanax Horridus
Climate: mesic, udic

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<tr>
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<tbody>
<tr>
<td>Oi</td>
<td>0 - 4</td>
<td>Forest litter, needles, fern fronds, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>A</td>
<td>4 - 27</td>
<td>Black (10YR 2/1) sandy loam, very dark gray (10YR 3/1) dry; fine granular structure; very friable; 10 percent gravel; clear smooth boundary.</td>
</tr>
<tr>
<td>Bg1</td>
<td>27 - 62</td>
<td>Dark gray (10YR 4/1) loamy sand, gray (10YR 5/1) dry; fine subangular blocky structure; very friable; 2 percent gravel; clear smooth boundary.</td>
</tr>
<tr>
<td>Bg2</td>
<td>62 - 82</td>
<td>Grayish brown (10YR 5/2) loam, light brownish gray (10YR 6/2) dry; fine subangular blocky structure; friable; clear smooth boundary.</td>
</tr>
<tr>
<td>Bg3</td>
<td>82 - 125</td>
<td>Brown (10YR 4/3) sandy loam, brown (10YR 5/3) dry; medium subangular blocky structure; friable.</td>
</tr>
</tbody>
</table>
**Site:** H  

**Classification:** Aquandic Fluvaquent  

**Location:** Near Nisqually Park entrance; in decommissioned Sunshine Point Campground  

**Dominant Characteristic:** human influenced  

**Parent Material:** alluvial deposits  

**Slope:** 5%  

**Aspect:** 180°  

**Elevation:** 637 meters  

**Vegetation Association:** Tsuga heterophylla/Oplopanax Horridus  

**Climate:** mesic, udic  

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>O&lt;sub&gt;i&lt;/sub&gt;</td>
<td>0-1</td>
<td>Loose forest litter, needles, and twigs; abrupt smooth boundary.</td>
</tr>
<tr>
<td>C</td>
<td>1-30</td>
<td>Dark gray (10YR 4/1) ashy sandy loam, gray (10YR 5/1) dry; single grained; loose; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Bgb</td>
<td>30-37</td>
<td>Dark grayish brown (10YR 4/2) sandy loam, dark grayish brown (10YR 4/2) dry; medium platy structure; firm; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Ab</td>
<td>37-40</td>
<td>Black (10YR 2/1) sandy loam, dark gray (10YR 3/1) dry; medium platy structure; friable; abrupt smooth boundary.</td>
</tr>
<tr>
<td>Bgb’</td>
<td>40-46</td>
<td>Dark gray (10YR 4/1) sandy loam, gray (10YR 6/1) dry; medium platy structure; firm; clear smooth boundary.</td>
</tr>
<tr>
<td>C&lt;sub&gt;1&lt;/sub&gt;</td>
<td>46-59</td>
<td>Very dark gray (10YR 3/1) sandy loam, dark gray (10YR 4/1) dry; single grained; loose; clear smooth boundary.</td>
</tr>
</tbody>
</table>
C2  59-98  Very dark gray (10YR 3/1) extremely cobbly sandy loam, dark gray (10YR 4/1) dry; single grained; loose; 50 percent gravel, 30 percent cobbles.