

Appendix D —Wetland Dataforms

This Appendix includes the data forms for all of the wetlands located within the project limits.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland A</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Acer circinatum</i> (vine maple)	Shrub	FAC-	8		
2 <i>Stachys mexicana</i> (Mexican hedgenettle)	Herb	FACW	9		
3 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	10		
4 <i>Tolmeia menziesii</i> (youth on age)	Herb	FAC	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 75%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>7</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4		10YR 3/2			SiL
4-9		10YR 3/1	7.5YR 5/6	Many/coarse/prominent	SiL
9-16		10YR 4/1	7.5YR 5/6	Many/coarse/prominent	SiL
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The soil met at least one of the Field Indicators for Hydric Soil, specifically; A11. Depleted Below Dark Surface.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland A</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Acer macrophyllum</i> (bigleaf maple)	Tree	FACU	8		
2 <i>Corylus cornuta</i> (beaked hazelnut)	Shrub	FACU	9		
3 <i>Oemleria cerasiformis</i> (Indian plum)	Shrub	FACU	10		
4 <i>Mahonia aquifolium</i> (short Oregon Grape)	Herb	NL	11		
5 <i>Polystichum munitum</i> (western swordfern)	Herb	FACU	12		
6 <i>Symphoricarpos albus</i> (snowberry)	Shrub	FACU	13		
7 <i>Rubus ursinus</i> (trailing blackberry)	Vine	FACU	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR 2/1			SIL
6-14		10YR 3/2			SIL
Hydric Soil Indicators: <input type="checkbox"/> Histosol <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Wetland Hydrology Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Hydric Soils Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland B</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	8		
2 <i>Athyrium filix-femina</i> (ladyfern)	Herb	FAC	9		
3 <i>Oplopanax horridus</i> (Devil's club)	Shrub	FAC	10		
4 <i>Tolmeia menziesii</i> (youth on age)	Herb	FAC	11		
5 <i>Thuja plicata</i> (western red cedar)	Shrub	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>2</u> (In.) Depth to Saturated Soil: <u>surface</u> (In.)		
Remarks: <u>Data point is directly adjacent to a permanently flowing stream (approximately 4 inches deep).</u>		

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
					Extremely coarse gravelly L
					SL
Hydric Soil Indicators: <input type="checkbox"/> Histosol <input checked="" type="checkbox"/> Reducing Conditions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Other (explain in remarks)					
Remarks: <u>The extremely coarse nature of the substrate prohibited surface investigation. Although the soil was inundated for a duration sufficient to promote anaerobic conditions, and was therefore assumed to be hydric.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland B</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Polystichum munitum</i> (western swordfern)	Herb	FACU	8		
2 <i>Symphoricarpos albus</i> (snowberry)	Shrub	FACU	9		
3 <i>Acer macrophyllum</i> (bigleaf maple)	Tree	FACU	10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)

Remarks: _____

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: <u>WD</u>
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 3/2			SiL
3-12		10YR 4/3			SiCL
12-16		10YR 4/1	10YR 4/4	Common/coarse/distinct	SiCL

Hydric Soil Indicators:		
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Wetland Hydrology Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Hydric Soils Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland C</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-C</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Rubus spectabilis</i> (salmonberry)	Shrub	FAC+	8		
2 <i>Acer circinatum</i> (vine maple)	Shrub	FAC-	9		
3 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	10		
4 <i>Solanum dulcamara</i> (climbing nightshade)	Herb	FAC+	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 75%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>8</u> (In.) Depth to Saturated Soil: <u>4</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-5		10YR 3/2			SiL
5-10		10YR 2/1			SiL
10-16		10YR 5/1	7.5YR 5/6	Many/coarse/prominent	CL
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The soil met at least one of the Field Indicators for Hydric Soil, specifically; A11. Depleted Below Dark Surface.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland C</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-C/D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Acer macrophyllum</i> (bigleaf maple)	Tree	FACU	8		
2 <i>Corylus cornuta</i> (beaked hazelnut)	Shrub	FACU	9		
3 <i>Holodiscus discolor</i> (oceanspray)	Shrub	NL	10		
4 <i>Symphoricarpos albus</i> (snowberry)	Shrub	FACU	11		
5 <i>Polystichum munitum</i> (western swordfern)	Herb	FACU	12		
6 <i>Acer circinatum</i> (vine maple)	Shrub	FAC-	13		
7 <i>Vaccinium parvifolium</i> (red huckleberry)	Shrub	NL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>10</u> (In.) Depth to Saturated Soil: <u>>10</u> (In.)	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: _____				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR 3/2			SiL
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The subsurface investigation was limited by the presence of fill material. The location of the datapoint may have been on an abandoned logging road.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Hydric Soils Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Remarks: _____			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland D</u>	Date: <u>9-7-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Rubus spectabilis</i> (salmonberry)	Shrub	FAC+	8		
2 <i>Tolmiea menziesii</i> (youth on age)	Herb	FAC+	9		
3 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	10		
4 <i>Lysichiton americanus</i> (skunk cabbage)	Herb	OBL	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>8</u> (In.) Depth to Saturated Soil: <u>6</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Mountzion clay loam</u>	Drainage Class: _____				
Taxonomy (Subgroup): <u>Typic Palehumults</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR 3/2			SiL
6-12		10YR 3/2	7.5YR 5/8	Common/coarse/prominent	SiL
12-16		10YR 3/2			SiL
Hydric Soil Indicators:					
<input checked="" type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The soil met at least one of the Field Indicators for Hydric Soil, specifically; A11. Depleted Below Dark Surface.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland E</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input type="checkbox"/> No	Plot ID: <u>WDP-E</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Lysichiton americanus (skunk cabbage)</i>	Herb	OBL	8		
2 <i>Rubus spectabilis (salmonberry)</i>	Shrub	FAC+	9		
3 <i>Tolmeia menziesii (youth on age)</i>	Herb	FAC	10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available Field Observations: Depth of Surface Water: <u>surface</u> (In.) Depth to Free Water in Pit: <u>surface</u> (In.) Depth to Saturated Soil: <u>surface</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skelida silt loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? Circle No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR 3/2	7.5YR 4/6	Common/coarse/prominent	Gravelly SL
*					
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The soil met at least one of the Field Indicators for Hydric Soil, specifically; F6. Redox Dark Surface.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland E</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-E/F</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Rubus spectabilis</i> (salmonberry)	Shrub	FAC+	8		
2 <i>Acer circinatum</i> (vine maple)	Shrub	FAC-	9		
3 <i>Alnus rubra</i> (red alder)	Tree	FAC	10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 67%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skelida silt loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR 3/2			SiL
10-16		10YR 3/3			SiL
Hydric Soil Indicators: <input type="checkbox"/> Histosol <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland F</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-F</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <u>Oenanthe sarmentosa (water parsley)</u>	Herb	OBL	8		
2 <u>Tolmiea menziesii (youth on age)</u>	Herb	FAC	9		
3			10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>Surface</u> (In.) Depth to Free Water in Pit: <u>Surface</u> (In.) Depth to Saturated Soil: <u>surface</u> (In.)	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Skoly stony loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystrudepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The composition of the stream bed prohibited subsurface investigation, but reducing conditions were assumed due to the fact that the area is seasonally saturated.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland G</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-G</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Alnus rubra</i> (red alder)	Tree	FAC	8		
2 <i>Rubus spectabilis</i> (salmonberry)	Shrub	FAC+	9		
3 <i>Urtica dioica</i> (stinging nettle)	Herb	FAC+	10		
4 <i>Tolmiea menziesii</i> (youth on age)	Herb	FAC+	11		
5 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available Field Observations: Depth of Surface Water: <u>Surface</u> (In.) Depth to Free Water in Pit: <u>Surface</u> (In.) Depth to Saturated Soil: <u>Surface</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skamania sandy loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The composition of the stream bed prohibited subsurface investigation, but reducing conditions were assumed due to the fact that the area is seasonally saturated.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Hydric Soils Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Remarks: _____			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland G</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-G</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Acer macrophyllum</i> (bigleaf maple)	Tree	FACU	8		
2 <i>Alnus rubra</i> (red alder)	Tree	FAC	9		
3 <i>Sambucus racemosa</i> (Red elderberry)	Shrub	FACU	10		
4 <i>Rubus spectabilis</i> (salmonberry)	Shrub	FAC+	11		
5 <i>Polystichum munitum</i> (western swordfern)	Herb	FACU	12		
6 <i>Acer circinatum</i> (vine maple)	Shrub	FAC-	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 33%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skamania sandy loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2			SiL
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Wetland Hydrology Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Hydric Soils Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Wetland H</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-H</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Typha Latifolia</i> (broadleaf cattail)	Herb	OBL	8		
2			9		
3			10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>3</u> (In.) Depth to Saturated Soil: <u>surface</u> (In.)	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)

Remarks: _____

SOILS

Map Unit Name (Series and Phase): <u>Skelida silt loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-9		10YR 3/2			SiL
9-16		10YR 3/2	7.5YR 4/4	Common/medium/distinct	

Hydric Soil Indicators:	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)
<input type="checkbox"/> Aquic Moisture Regime		

Remarks: The soil met at least one of the Field Indicators for Hydric Soil, specifically; F6. Redox Dark Surface.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Wetland Hydrology Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			
Hydric Soils Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland H</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-H</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Rubus armeniacus</i> (Himalayan blackberry)	Vine	FACU	8		
2 <i>Epilobium ciliatum</i> (fringed willowherb)	Herb	FACW-	9		
3 <i>Alnus rubra</i> (red alder)	Tree	FAC	10		
4 <i>Galium aparine</i> (cleavers)	Herb	FACU	11		
5 <i>Equistem arvense</i> (common horsetail)	Herb	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 40%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skelida silt loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2			SiL
Hydric Soil Indicators: <input type="checkbox"/> Histosol <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Wetland Hydrology Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Hydric Soils Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project --Wetland I</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>WDP-I</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Solanum dulcamara</i> (climbing nightshade)	Herb	FAC+	8		
2 <i>Juncus effuses</i> (soft rush)	Herb	FACW	9		
3 <i>Phalaris arundinacea</i> (reed canarygrass)	Herb	FACW	10		
4 <i>Polygonum persicaria</i> (spotted lady's-thumb)	Herb	FACW	11		
5 <i>Veronica Americana</i> (American speedwell)	Herb	OBL	12		
6 <i>Oenanthe sarmentosa</i> (water parsley)	Herb	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>2</u> (In.) Depth to Free Water in Pit: <u>Surface</u> (In.) Depth to Saturated Soil: <u>surface</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Skelida silt loam</u>	Drainage Class: <u>WD</u>				
Taxonomy (Subgroup): <u>Humic Dystraxepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 3/2			SiL
8-16		10YR 3/1	10YR 3/4	Common/medium/distinct	SL
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)			
Remarks: <u>The soil met at least one of the Field Indicators for Hydric Soil, specifically; F6. Redox Dark Surface.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point Within a Wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Hydric Soils Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Remarks: _____			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>SR-14 Marble Rd Safety Project –Upland associated w/Wetland I</u>	Date: <u>10-25-07</u>
Applicant/Owner: <u>Washington State Department of Transportation</u>	County: <u>Skamania</u>
Investigator: <u>Thomas D Kohl</u>	State: <u>WA</u>
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Plot ID: <u>UDP-I</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Non-Dominant Plant Species	Stratum	Indicator
1 <i>Rubus armeniacus</i> (Himalayan blackberry)	Vine	FACU	8		
2 <i>Alnus rubra</i> (red alder)	Tree	FAC	9		
3			10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (describe in Remarks) Stream, Lake, or Tide Gauge Aerial Photographs Other <input checked="" type="checkbox"/> No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: <u>>16</u> (In.) Depth to Saturated Soil: <u>>16</u> (In.)	Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)

Remarks: _____

SOILS

Map Unit Name (Series and Phase): <u>Skamania sandy loam</u>	Drainage Class: <u>WD</u>
Taxonomy (Subgroup): <u>Humic Dystrochrepts</u>	Field Observations Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 3/2			SiL

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Concretions	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Remarks: _____