



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

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**Peter Goldmark** - Commissioner of Public Lands

# Processing Forest Practices Applications with Potentially Unstable Slopes

Donelle Mahan  
Forest Practices Assistant Division Manager,  
Operations



# Forest Practices Rules

## State Environmental Policy Act

### Watershed Analysis

#### Rule Identified Landforms

- Chapter 76.09 RCW
- Chapter 43.21C RCW, Chapter 197-11 WAC and Chapter 222-10 WAC
- Chapter 222-22 WAC
- WAC 222-16-050



# Rule Identified Landforms

- Inner gorges, convergent headwalls or bedrock hollows with slopes steeper than 70%
- Toes of deep-seated landslides with slopes steeper than 65%
- Groundwater recharge areas for glacial deep-seated landslides
- Outer edges of meander bends along valley walls or high terraces of an unconfined meandering stream; or
- Any areas containing features indicating the presence of potential slope instability...



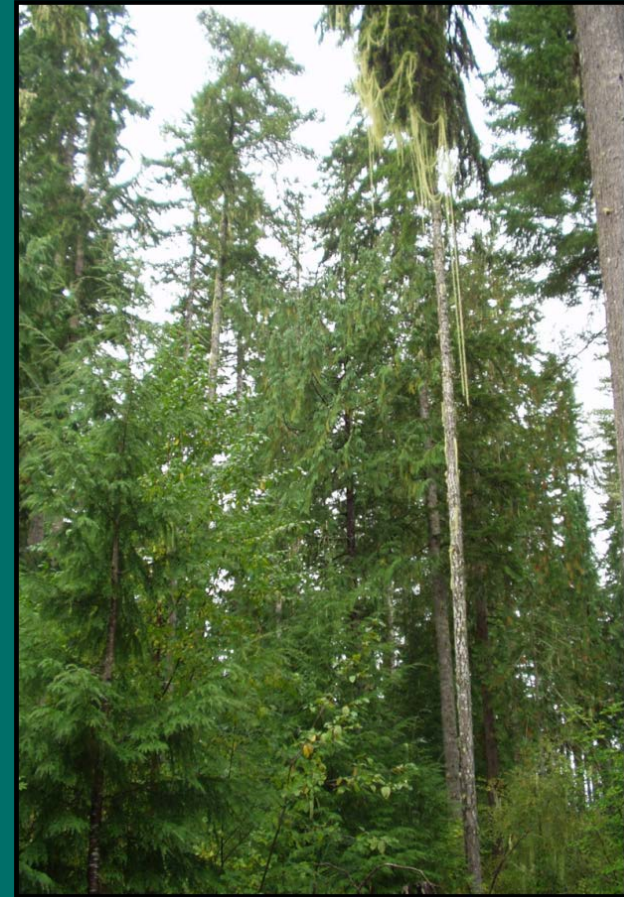
# Watershed Analysis (WSA)

- Most WSAs mass wasting (MW) prescriptions rescinded
  - ✓ MW prescriptions used as screening tool
- WSA MW prescriptions valid when associated with Habitat Conservation Plans (HCPs) and/or reanalysis



# Office Review Process

- Forest Practices Application (FPA) screened for completeness
- Resource review via Forest Practices Risk Assessment Tool (FPRAT) and other tools
- FPA classification
- FPA entered into Forest Practices Application Review System (FPARS)



# Forest Practices Application

## Questions 11 and 12

**11. Are there potentially unstable slopes or landforms within the boundaries of your forest practices activity area?**

- No  Yes – attach geotechnical report and “Slope Stability Informational Form.” If applicable, attach the SEPA checklist, HCP or Watershed Analysis prescriptions.

**12. Are there potentially unstable slopes or landforms adjacent to your forest practices activity area?**

- No  Yes – complete and attach the “Slope Stability Informational Form.” If applicable, attach geotechnical report, HCP or Watershed Analysis prescriptions.



# Slope Stability Informational Form

**Note:** Complete and attach this form to your FPA if you answered "Yes" to FPA question 11 or 12. "Potentially unstable slopes or landforms" are defined in WAC 222-16-050(1)(d). See Board Manual Section 16 part 2.1 for descriptions of potentially unstable slopes.

1. What screening tools were used?  GIS,  Aerial Photo,  LiDAR,  Other (describe): \_\_\_\_\_  
\_\_\_\_\_

2. What potentially unstable slopes were identified within the boundaries of your forest practices activity area? Check all that apply:  
 Inner Gorge       Groundwater recharge areas for glacial deep-seated landslides  
 Bedrock Hollow       Convergent Headwall       Toe of deep-seated landslide  
 Outer edges of meander bends       Other (describe): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What potentially unstable slopes were identified adjacent to your forest practices activity area? Check all that apply:  
 Inner Gorge       Groundwater recharge areas for glacial deep-seated landslides  
 Bedrock Hollow       Convergent Headwall       Toe of deep-seated landslide  
 Outer edges of meander bends       Other (describe): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Date of field review: \_\_\_\_\_

5. Person(s) that conducted field review: \_\_\_\_\_  
Name Title/position  
\_\_\_\_\_  
Name Title/position

6. If any features identified in #2 and /or #3 were bounded out, describe the manner in which the boundary was determined: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Show all field reviewed areas for potentially unstable slopes or landforms on a map (may use a forest practices activity map, harvest map or GIS map – See map example on page 35). This map is intended to be developed by the field practitioner.





# Forest Practices Risk Assessment Tool (FPRAT)

**WASHINGTON STATE DEPARTMENT OF Natural Resources**

**Map Layers**

- FPA Office Review Checklist
- Forest Practices Applications
- Long Term Commitments
- RMAPS
- Cultural Resources
- Admin Bndys & Survey (Cadastr
- DNR Managed Lands (Cadastr
- Soils & Slope Stability
- Transportation
- Water (Hydrography)
- Utilities and Communication
- Geographic Reference
- Climatology
- Topography
- FP Rule Implementation
- Plants, Animal & Habitat \*
- Wildfire & Prevention
- Imagery
- Local Issues

Close All  
Default Layers  
Show Visible Layers

Help:  
A closed group, click to open.  
An open group, click to close.  
Layer Documentation, click to show.

Refresh Map

Zoom to Scale 3218662

Preset Maps  
Reports  
Helpful Links

**Active Layer: Counties**

**DNR Zoom Tool**

View County: View Township: View Wau: View Wria:

T 0 R 0 E S

Zoom To TRS

Get FPA



# LiDAR

Forest Practices Risk Assessment Tool Version 1.0 - Windows Internet Explorer provided by Department of Natural Resources

The screenshot displays the Forest Practices Risk Assessment Tool (FPA) interface. The main map area shows a LiDAR-derived topographic map with several overlays: a red boundary for a watershed, green lines for water courses, and various colored areas representing different risk or management zones. A central area is labeled 'South Puget Sound Pierce'. The interface includes a 'Map Layers' panel on the left with a 'Check Local' button and a list of layers such as 'Fire Shutdown Zones', 'WRIAs', 'Current WAUs', 'Watershed Analysis', 'Columbia River Gorge National Scenic Area', 'Rain on Snow', 'Hydric Soils', 'Landslide Inventory', 'Landslide Polygons', 'Landslide Lines', 'NW Landslide Areas of Concern', 'Landslide Hazard Zones', 'Slope Stability Model', 'Slope Stability Model - East', 'Highly Unstable Soils', 'Highly Erodible Soils', 'FP Wetlands', 'Tribal Cultural Resource Contacts - All', 'Archaeological/Historic Sites', 'Forest Riparian Easements', 'FPHCP Bull Trout Populations of Concern', 'Bull Trout Overlay', 'SOSEA', 'Wildlife Data', 'Forest Practices Applications', 'Long Term Commitments', 'RMAPS', 'Cultural Resources', 'Admin Bndys & Survey (Cadastr)', 'DNR Managed Lands (Cadastr)', 'Soils & Slope Stability', 'Transportation', and 'Water (Hydrography)'. The 'Water (Hydrography)' section includes 'Water Courses - Typed (DNR)', 'Water Courses - Blue Lined (DNR)', 'Water Courses - Name (DNR)', 'Water Bodies (DNR)', 'Water Type Breaks (DNR)', 'Water Type Code Source (DNR)', 'WTFMF PDF (DNR)', and 'Shorelines of Statewide Significance'. Below the map, the 'DNR Zoom Tool' is visible, featuring dropdown menus for 'View County', 'View Township', 'View Wau', and 'View Wria', along with 'Zoom To TRS' and 'Get FPA' buttons. The bottom left corner has a 'Refresh Map' button and a 'Zoom to Scale 7574' field. The bottom right corner shows the Washington State Department of Natural Resources logo and website information.

**Map Layers**

- FPA Office Review Checklist
  - Check Local
  - Fire Shutdown Zones
  - WRIAs
  - Current WAUs
  - Current WAU Names
  - Watershed Analysis
  - Columbia River Gorge National Scenic Area
  - Rain on Snow
  - Hydric Soils
  - Landslide Inventory
    - Landslide Polygons
    - Landslide Lines
    - NW Landslide Areas of Concern
    - Landslide Hazard Zones
    - Slope Stability Model
    - Slope Stability Model - East
    - Highly Unstable Soils
    - Highly Erodible Soils
    - FP Wetlands
  - Tribal Cultural Resource Contacts - All
- Archaeological/Historic Sites \*
- Forest Riparian Easements
- FPHCP Bull Trout Populations of Concern
- Bull Trout Overlay
- SOSEA
- Wildlife Data \*
- Forest Practices Applications
- Long Term Commitments
- RMAPS
- Cultural Resources
- Admin Bndys & Survey (Cadastr)
- DNR Managed Lands (Cadastr)
- Soils & Slope Stability
- Transportation
- Water (Hydrography)
  - Water Courses - Typed (DNR)
  - Water Courses - Blue Lined (DNR)
  - Water Courses - Name (DNR)
  - Water Bodies (DNR)
  - Water Type Breaks (DNR)
  - Water Type Code Source (DNR)
  - WTFMF PDF (DNR)
  - Shorelines of Statewide Significance
- 303D Waters
- FP Wetlands

**Active Layer: Counties**

**DNR Zoom Tool**

View County: View Township: View Wau: View Wria:

T 0 R 0 E S **Zoom To TRS** **Get FPA**

Zoom to Scale 7574

Preset Maps

Reports

Helpful Links

WASHINGTON STATE DEPARTMENT OF **Natural Resources**

www.dnr.wa.gov



# Landslide Inventory

Forest Practices Risk Assessment Tool Version 1.0 - Windows Internet Explorer provided by Department of Natural Resources

The screenshot displays the Forest Practices Risk Assessment Tool interface. The main map area shows a geographical region with various colored overlays representing different risk factors. A legend on the left side, titled "Map Layers", lists numerous categories such as "FPA Office Review Checklist", "Fire Shutdown Zones", "WRIAs", "Current WAUs", "Watershed Analysis", "Columbia River Gorge National Scenic Area", "Rain on Snow", "Hydric Soils", "Landslide Inventory", "Landslide Polygons", "Landslide Lines", "IW Landslide Areas of Concern", "Landslide Hazard Zones", "Slope Stability Model", "Slope Stability Model - East", "Highly Unstable Soils", "Highly Erodible Soils", "FP Wetlands", "Tribal Cultural Resource Contacts - All", "Archaeological/Historic Sites", "Forest Riparian Easements", "FPHCP Bull Trout Populations of Concern", "Bull Trout Overlay", "SOSEA", "Wildlife Data", "Forest Practices Applications", "Long Term Commitments", "RMAPS", "Cultural Resources", "Admin Bndys & Survey (Cadastr)", "DNR Managed Lands (Cadastr)", "Soils & Slope Stability", "Transportation", "Water (hydrography)", "Water Courses - Typed (DNR)", "Water Courses - Blue Lined (DNR)", "Water Courses - Name (DNR)", "Water Bodies (DNR)", "Water Type Breaks (DNR)", "Water Type Code Source (DNR)", "WTFM PDF (DNR)", "Shorelines of Statewide Significance", "303D Waters", and "FP Wetlands".

Active Layer: Counties

DNR Zoom Tool

View County: View Township: View Wau: View Wria:

T 0 R 0 E S Zoom To TRS Get FPA

Map: 1226889.94\_575790.85 -- Image: 485\_407 -- Scale: 1:7574

LocalIntranet! Protected Mode: Off 100% 1:59 PM 8/20/2013



# Landslide Hazard Zonation

Forest Practices Risk Assessment Tool Version 1.0 - Windows Internet Explorer provided by Department of Natural Resources

The screenshot displays the Forest Practices Risk Assessment Tool interface. On the left is a 'Map Layers' panel with a tree view of various data layers. The main map area shows a landscape with yellow landslide hazard zones, green water courses, and grey roads. A 'South Puget Sound Pleistice' label is visible on the map. At the bottom, there is a 'DNR Zoom Tool' with dropdown menus for 'View County', 'View Township', 'View Wau', and 'View Wria', along with a 'Zoom To TRS' button and a 'Get FPA' button. The status bar at the bottom left indicates 'Active Layer: Counties'.

**Map Layers**

- FPA Office Review Checklist
  - Check Local
  - Fire Shutdown Zones
  - WRAs
  - Current WAUs
  - Current WAU Names
  - Watershed Analysis
  - Columbia River Gorge National Scenic Area
  - Rain on Snow
  - Hydric Soils
  - Landslide Inventory
    - Landslide Polygons
    - Landslide Lines
    - NW Landslide Areas of Concern
    - Landslide Hazard Zones
    - Slope Stability Model
    - Slope Stability Model - East
    - Highly Unstable Soils
    - Highly Erodible Soils
    - FP Wetlands
  - Tribal Cultural Resource Contacts - All
  - Archaeological/Historic Sites \*
  - Forest Riparian Easements
  - FPHCP Bull Trout Populations of Concern
  - Bull Trout Overlay
  - SOSEA
  - Wildlife Data \*
- Forest Practices Applications
  - Long Term Commitments
  - RMAPS
  - Cultural Resources
  - Admin Bndys & Survey (Cadastre)
  - DNR Managed Lands (Cadastre)
  - Soils & Slope Stability
  - Transportation
  - Water (Hydrography)
    - Water Courses - Typed (DNR)
    - Water Courses - Blue Lined (DNR)
    - Water Courses - Name (DNR)
    - Water Bodies (DNR)
    - Water Type Breaks (DNR)
    - Water Type Code Source (DNR)
    - WTMF PDF (DNR)
    - Shorelines of Statewide Significance
    - 303D Waters
    - FP Wetlands

Active Layer: Counties

DNR Zoom Tool

View County: View Township: View Wau: View Wria:

T 0 R 0 E S Zoom To TRS Get FPA



# Slope Stability

Forest Practices Risk Assessment Tool Version 1.0 - Windows Internet Explorer provided by Department of Natural Resources

The screenshot displays the Forest Practices Risk Assessment Tool interface. The main map area shows a topographic map with various layers overlaid, including water courses, roads, and slope stability data. The map is divided into two panels, with the right panel showing a zoomed-in view of a specific area. The legend on the left lists numerous map layers, including Fire Shutdown Zones, WRIAs, Current WAUs, Watershed Analysis, Columbia River Gorge National Scenic Area, Rain on Snow, Hydric Soils, Landslide Inventory, Landslide Polygons, Landslide Lines, NW Landslide Areas of Concern, Landslide Hazard Zones, Slope Stability Model, Slope Stability Model - East, Highly Unstable Soils, Highly Erodible Soils, FP Wetlands, Tribal Cultural Resource Contacts - All, Archaeological/Historic Sites, Forest Riparian Easements, FPWCP Bull Trout Populations of Concern, Bull Trout Overlay, SOSEA, Wildlife Data, Forest Practices Applications, Long Term Commitments, RMAPS, Cultural Resources, Admin Bndys & Survey (Cadastral), DNR Managed Lands (Cadastral), Soils & Slope Stability, Transportation, Water (hydrography), Water Courses - Typed (DNR), Water Courses - Blue Lined (DNR), Water Courses - Name (DNR), Water Bodies (DNR), Water Type Breaks (DNR), Water Type Code Source (DNR), WTMF PDF (DNR), Shorelines of Statewide Significance, 303D Waters, and FP Wetlands. The map shows a network of roads and water courses, with a red boundary line indicating a specific area of interest. The map is labeled with 'Active Layer: Counties' and 'DNR Zoom Tool'. The interface includes a toolbar at the top with various navigation and analysis tools, and a bottom panel with dropdown menus for 'View County', 'View Township', 'View Wau', and 'View Wria', along with a 'Zoom To TRS' button and a 'Get FPA' button.

Map Layers

- FPA Office Review Checklist
  - Check Local
  - Fire Shutdown Zones
  - WRIAs
  - Current WAUs
  - Current WAU Names
  - Watershed Analysis
  - Columbia River Gorge National Scenic Area
  - Rain on Snow
  - Hydric Soils
  - Landslide Inventory
    - Landslide Polygons
    - Landslide Lines
    - NW Landslide Areas of Concern
    - Landslide Hazard Zones
  - Slope Stability Model
  - Slope Stability Model - East
  - Highly Unstable Soils
  - Highly Erodible Soils
  - FP Wetlands
  - Tribal Cultural Resource Contacts - All
  - Archaeological/Historic Sites \*
  - Forest Riparian Easements
  - FPWCP Bull Trout Populations of Concern
  - Bull Trout Overlay
  - SOSEA
  - Wildlife Data \*
- Forest Practices Applications
  - Long Term Commitments
  - RMAPS
  - Cultural Resources
  - Admin Bndys & Survey (Cadastral)
  - DNR Managed Lands (Cadastral)
  - Soils & Slope Stability
  - Transportation
  - Water (hydrography)
    - Water Courses - Typed (DNR)
    - Water Courses - Blue Lined (DNR)
    - Water Courses - Name (DNR)
    - Water Bodies (DNR)
    - Water Type Breaks (DNR)
    - Water Type Code Source (DNR)
    - WTMf PDF (DNR)
    - Shorelines of Statewide Significance
    - 303D Waters
    - FP Wetlands

Refresh Map

Zoom to Scale 7574

Preset Maps

Reports

Helpful Links

Active Layer: Counties

DNR Zoom Tool

View County: View Township: View Wau: View Wria:

T 0 R 0 E S

Zoom To TRS

Get FPA





# Highly Unstable/ Erodible Soils

Forest Practices Risk Assessment Tool Version 1.0 - Windows Internet Explorer provided by Department of Natural Resources

**Map Layers**

- FPA Office Review Checklist
  - Check Local
  - Fire Shutdown Zones
  - WRIs
  - Current WAs
  - Current WAU Names
  - Watershed Analysis
  - Columbia River Gorge National Scenic Area
  - Rain on Snow
  - Hydric Soils
- Landslide Inventory
  - Landslide Polygons
  - Landslide Lines
  - NW Landslide Areas of Concern
  - Landslide Hazard Zones
  - Slope Stability Model
  - Slope Stability Model - East
  - Highly Unstable Soils
  - Highly Erodible Soils
  - FP Wetlands
- Tribal Cultural Resource Contacts - All
- Archaeological/Historic Sites \*
- Forest Riparian Easements
- FP/CP Bull Trout Populations of Concern
- Bull Trout Overlay
- SOSEA
- Wildlife Data \*
- Forest Practices Applications
- Long Term Commitments
- RMAPS
- Cultural Resources
- Admin Bndys & Survey (Cadastre)
- DNR Managed Lands (Cadastre)
- Soils & Slope Stability
- Transportation
- Water (Hydrography)
  - Water Courses - Typed (DNR)
  - Water Courses - Blue Lined (DNR)
  - Water Courses - Name (DNR)
  - Water Bodies (DNR)
  - Water Type Breaks (DNR)
  - Water Type Code Source (DNR)
  - WTMF PDF (DNR)
  - Shorelines of Statewide Significance
  - 303D Waters
  - FP Wetlands

Active Layer: Counties

DNR Zoom Tool

View County: View Township: View Wau: View Wria:

T 0 R 0 E S

Zoom To TRS

Get FPA

Refresh Map

Zoom to Scale 7574

Preset Maps

Reports

Helpful Links





Forest Practices Application/Notification Office Checklist Page 1 Region

FPA/N #: Received Date: WDFW Concurrence Due Date: WDFW Concurrence Review Completed: Comments Due Date: Decision Due Date: FP Forester: Shutdown Zone: RMAP #:

FPA/N CLASSIFICATION: [ ] II [ ] III [ ] IVG [ ] IVS RMAP Exempt: [ ] 80/20 [ ] No Forest Roads [ ] Ag [ ] LLO

Landowner Name: Project Name:

WRIA: WAU:

Legal Description:

Activity Type: Harvest ac Spray ac Stream Crossing(s)

Borrow Pit ac Road Construction ft Road Abandonment ft

ALTERNATIVE PRESCRIPTIONS

- [ ] Alternate Plan [ ] Habitat Conservation Plan [ ] Ten-Year Forest Management Plan [ ] Landowner Option Plan for Northern Spotted Owl [ ] Columbia River Gorge National Scenic Area [ ] Cooperative Habitat Enhancement Agreement [ ] Watershed Analysis

RESOURCE REVIEW

- [ ] Unstable Slopes (Risk: Highway, Water; ) [ ] Bull Trout Overlay [ ] Soils Map (Highly Erodible & Very Unstable) [ ] HCP Bull Trout Population [ ] SLPSTAB [ ] Bald Eagle nest or roost within 660 feet [ ] Landslide Hazard Zonation [ ] Group A or B Water Supply (TRAX code DM or MU) [ ] Landslide Polygon [ ] Hatchery (TRAX code S)(Name: ) [ ] Rain-on-Snow and Outside Approved WA [ ] Even-Aged Harvest greater than 120 Acres [ ] Hydric Soils [ ] Wetland [ ] Forested, [ ] A, [ ] B [ ] Volume greater than 5 MBF per acre [ ] In WMZ of [ ] A, or [ ] B Wetland [ ] Ground-based Equipment on Slopes greater than 40% [ ] In RMZ/ELZ of Type [ ] S, [ ] F, [ ] N water [ ] Road Construction on Slopes greater than 65% [ ] Water Verification [ ] Saltwater Islands (Name: )

ASSOCIATED NON-SCANNED DOCUMENTS - On file with the FPA/N at the region office.

- [ ] SEPA Checklist/Documents [ ] Large Landowner Road Maintenance and Abandonment Plan

ASSOCIATED SCANNED DOCUMENTS

- [ ] Conversion Option Harvest Plan [ ] Hardwood Conversion Form [ ] FPHP Plans & Specifications [ ] Wetland Mitigation Plan [ ] Qualified Expert Report [ ] Water Protocol Surveys [ ] Modification Form# [ ] Natural Regeneration Plan [ ] Shoreline Permit [ ] Water Classification Worksheet [ ] Marbled Murrelet Form [ ] Shade Documentation [ ] FPBM Appendix(s) [ ] Watershed Analysis Worksheet [ ] Small Landowner RMAP Checklist [ ] DFC Printout



# Resource Review

## RESOURCE REVIEW

- Unstable Slopes (Risk: Highway, Water; )
- Soils Map (Highly Erodible & Very Unstable)
- SLPSTAB
- Landslide Hazard Zonation
  - Landslide Polygon
- Rain-on-Snow and Outside Approved WA
- Hydric Soils  Wetland  Forested,  A,  B
- In WMZ of  A, or  B Wetland
- In RMZ/ELZ of Type  S,  F,  N water
- Water Verification





# GIS Data Center

| Forest Practices                           |          |               |                           |                  |                 |
|--|----------|---------------|---------------------------|------------------|-----------------|
| Description                                | Metadata | Download Data | File Format               | Data Application | Program Website |
| East/West Dividing Line                    |          | <br>(125KB)   | <a href="#">ESRI .shp</a> |                  |                 |
| Forest Practices Applications (All)        |          | <br>(35MB)    | <a href="#">ESRI .shp</a> |                  |                 |
| Forest Practices Applications (Active)     |          | <br>(5MB)     | <a href="#">ESRI .shp</a> |                  |                 |
| Master 2000 TICs                           |          | <br>(3.3MB)   | <a href="#">ESRI .gdb</a> |                  |                 |
| Site Class                                 |          | <br>(44MB)    | <a href="#">ESRI .gdb</a> |                  |                 |
| Sitka Spruce Zone                          |          | <br>(216KB)   | <a href="#">ESRI .shp</a> |                  |                 |
| Slope Stability                            |          | <br>(93MB)    | <a href="#">.TIFF</a>     |                  |                 |
| Slope Stability                            |          | <br>(112MB)   | <a href="#">ESRI .gdb</a> |                  |                 |
| Stream Temperature Class                   |          | <br>(375KB)   | <a href="#">ESRI .e00</a> |                  |                 |
| FP Tribal Cultural Resources Contacts      |          | <br>(1MB)     | <a href="#">ESRI .shp</a> |                  |                 |
| Watershed Admin Units (WAU) -- April 2008  |          | <br>(2.7MB)   | <a href="#">ESRI .gdb</a> |                  |                 |
| Forest Practices Wetlands -- December 2007 |          | <br>(35MB)    | <a href="#">ESRI .shp</a> |                  |                 |

[Back to top](#)



# Classification of Forest Practices Applications

WAC 222-16-050 (1)(d)

- Class I
- Class II
- Class III
- Class IV G
- Class IV S



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# Class II

- FPA indicates no resources at risk
- 5 day review
- Local knowledge prompts field review by Forest Practices (FP) forester



# Class III

**\*Note yellow highlighted boxes on flow chart 2**

- FPA indicates public resources (water, T&E species, wetlands, soils, etc.) may be impacted by the forestry activity.
- Within 14 days the FP forester will field review:
  - ✓ Presence/absence of rule identified landforms





# Slope Stability Informational Form

**Note:** Complete and attach this form to your FPA if you answered "Yes" to FPA question 11 or 12. "Potentially unstable slopes or landforms" are defined in WAC 222-16-050(1)(d). See Board Manual Section 16 part 2.1 for descriptions of potentially unstable slopes.

1. What screening tools were used?  GIS,  Aerial Photo,  LiDAR,  Other (describe): \_\_\_\_\_  
\_\_\_\_\_

2. What potentially unstable slopes were identified within the boundaries of your forest practices activity area? Check all that apply:  
 Inner Gorge       Groundwater recharge areas for glacial deep-seated landslides  
 Bedrock Hollow       Convergent Headwall       Toe of deep-seated landslide  
 Outer edges of meander bends       Other (describe): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What potentially unstable slopes were identified adjacent to your forest practices activity area? Check all that apply:  
 Inner Gorge       Groundwater recharge areas for glacial deep-seated landslides  
 Bedrock Hollow       Convergent Headwall       Toe of deep-seated landslide  
 Outer edges of meander bends       Other (describe): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Date of field review: \_\_\_\_\_

5. Person(s) that conducted field review: \_\_\_\_\_  
Name Title/position  
\_\_\_\_\_  
Name Title/position

6. If any features identified in #2 and /or #3 were bounded out, describe the manner in which the boundary was determined: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Show all field reviewed areas for potentially unstable slopes or landforms on a map (may use a forest practices activity map, harvest map or GIS map – See map example on page 35). **This map is intended to be developed by the field practitioner.**



# Class III continued

- Within 14 days the FP forester will field review:
  - ✓ Consult with the FP Geologist
    - ID Team may be scheduled and conducted
  - ✓ WSA MW prescriptions, if applicable (see flow chart 1)
  - ✓ Supplemental information (forms, reports)



# Class IV Special Office Review

**\*Note green highlighted boxes on flow  
chart 2**

- FPA indicates unstable landforms in and around the FPA area
- Geotechnical report by Qualified Expert and State Environmental Policy Act (SEPA) checklist included
- Office reviews geotechnical report and SEPA checklist for completeness



# Class IV Special Office Review continued

- FPA classified as IV-S
- Stakeholders and FP forester notified via FPARS
- SEPA and FPA process begins
- Public comment for SEPA and FPA begin at the same time and run concurrently
  - ✓ 14 day SEPA and FPA comment period





# Class IV Special Field Review

- FPA sent/received by FP forester and FP Geologist for review
- ID Team scheduled and conducted
- ID Team recommendations /conditions assessed by FP forester and DNR geologist
- Recommendations/conditions from the ID team are submitted to Region SEPA Responsible Official



# Region SEPA Responsible Official Review

- The Region SEPA Responsible Official (RO) review
- Evaluate ID Team recommendations and SEPA comments
- Make the “threshold determination”



# Region SEPA Responsible Official Review

- Determination of Non-Significance (DNS)
  - ✓ After field and SEPA review, the FP Forester approves/disapproves the FPA



# Region Responsible Official Review continued

- Mitigated Determination of Non-Significance (MDNS)
  - ✓ Landowner incorporates mitigation
  - ✓ Per the ID team review and stakeholder recommendations, the FP Forester incorporates mitigation in the form of conditions on the FPA
  - ✓ FP Forester approves the FPA



# Region Responsible Official Review continued

- Determination of Significance (DS)
  - ✓ Landowner has the option to pursue an Environmental Impact Statement (EIS)
  - ✓ Landowner may withdraw the FPA until the EIS is prepared and then resubmit the FPA with additional information



# Class IV Special FPA Notice of Decision

- Notice of Decision Page Notes:
  - ✓ Conditions, if applicable

**WASHINGTON STATE DEPARTMENT OF Natural Resources**  
Peter Goldmark - Commissioner of Public Lands

**Forest Practices Application/Notification Notice of Decision**

FPA/N No: \_\_\_\_\_  
Effective Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_  
Shut Down Zone: \_\_\_\_\_  
EARR Tax Credit:  Eligible  Non-eligible  
Reference: \_\_\_\_\_

**Decision**

Notification Operations shall not begin before the effective date.  
 Approved This Forest Practices Application is subject to the conditions listed below.  
 Disapproved This Forest Practices Application is disapproved for the reasons listed below.  
 Closed Applicant has withdrawn FPA/N.

**FPA/N Classification**  Class II  Class III  Class IVG  Class IVS **Number of Years Granted on Multi-Year Request**  4 years  5 years

**Conditions on Approval / Reasons for Disapproval**


Issued By: \_\_\_\_\_ Region: \_\_\_\_\_  
Title: \_\_\_\_\_ Date: \_\_\_\_\_

Copies to:  Landowner, Timber Owner and Operator.  
Issued in person:  Landowner  Timber Owner  Operator By: \_\_\_\_\_



# Class IV Special Notice of Final Determination

- Notice of Final Determination Notes:
  - ✓ Determination Made (DNS, MDNS, DS, etc.)
  - ✓ Summary of Comments

 WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**  
Peter Goldmark - Commissioner of Public Lands

Caring for  
your natural resources  
... now and forever

April 16, 2014

**Notice of Final Determination**  
**SEPA File No. 14-040102**  
**FP No. 2928213**

The Department of Natural Resources issued a  Determination of Non-significance (DNS),  Mitigated Determination of Non-significance (MDNS),  Modified DNS/MDNS on **March 28, 2014** for this proposal under the State Environmental Policy Act (SEPA) and WAC 197-11-340(2).

This threshold determination is hereby:

Retained.

Modified.

Withdrawn. This threshold determination has been withdrawn due to the following:

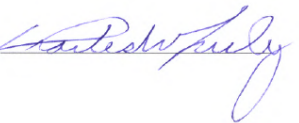
Delayed. A final threshold determination has been delayed due to the following:

Summary of Comments and Responses (if applicable):  
A comment was received from the Department of Ecology regarding requirements for Toxics Cleanup. The comment was forwarded to the applicant.

**Responsible Official:** Charles W. Turley

**Position/title:** RP&S Assistant Region Manager      **Phone:** (360) 577-2025

**Address:** PO Box 280  
Castle Rock, WA 98611-0280

Date: 4/16/14      Signature: 

There is no agency SEPA appeal.

[www.dnr.wa.gov/ResearchScience/sepa/Pages/Home.aspx](http://www.dnr.wa.gov/ResearchScience/sepa/Pages/Home.aspx)



# Questions?







WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

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**Peter Goldmark** - Commissioner of Public Lands