

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements -that do not contribute meaningfully to the analysis of the proposal.

A. BACKGROUND

1. Name of proposed project, if applicable:

North Fork Calawah Mass Wasting Reanalysis, a nonproject.

2. Name of applicant:

Rayonier Washington Timber Company

3. Address and phone number of applicant and contact person:

116 Quillayute Road, Forks, WA 98331

Julie Dieu (360) 374-7210

4. Date checklist prepared:

January 23, 2017

5. Agency requesting checklist:

Washington Department of Natural Resources (WADNR)

6. Proposed timing or schedule (including phasing, if applicable):

Immediately following approval.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Future activities likely to take place pursuant to this proposal are normal forest practices including forest road construction and timber harvest. Implementation of this proposal will require that, on private and State land within the North Fork Calawah Watershed Administrative Unit (WAU), such activities are carried out under the prescriptions and techniques called for in this proposal, in addition to other applicable watershed analysis prescriptions and Washington Forest Practices Rules.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Module K - ^{2015 ca} 2014 Mass Wasting Prescription Reanalysis Level 2 and 6 Causal Mechanism and Prescriptions (CMR and Rx) Reports for mass wasting map units. All will become part of the North Fork Calawah Watershed Analysis. Also 29 December 2016 Addendum ca

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No

10. List any government approvals or permits that will be needed for your proposal, if known.

WADNR approval of Module K and the 6 CMR Rx documents.

Future forest practices will require forest practice applications (FPA) to comply with the North Fork Calawah Watershed Analysis prescriptions; deviations from the prescriptions will require Class IV-S FPAs.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

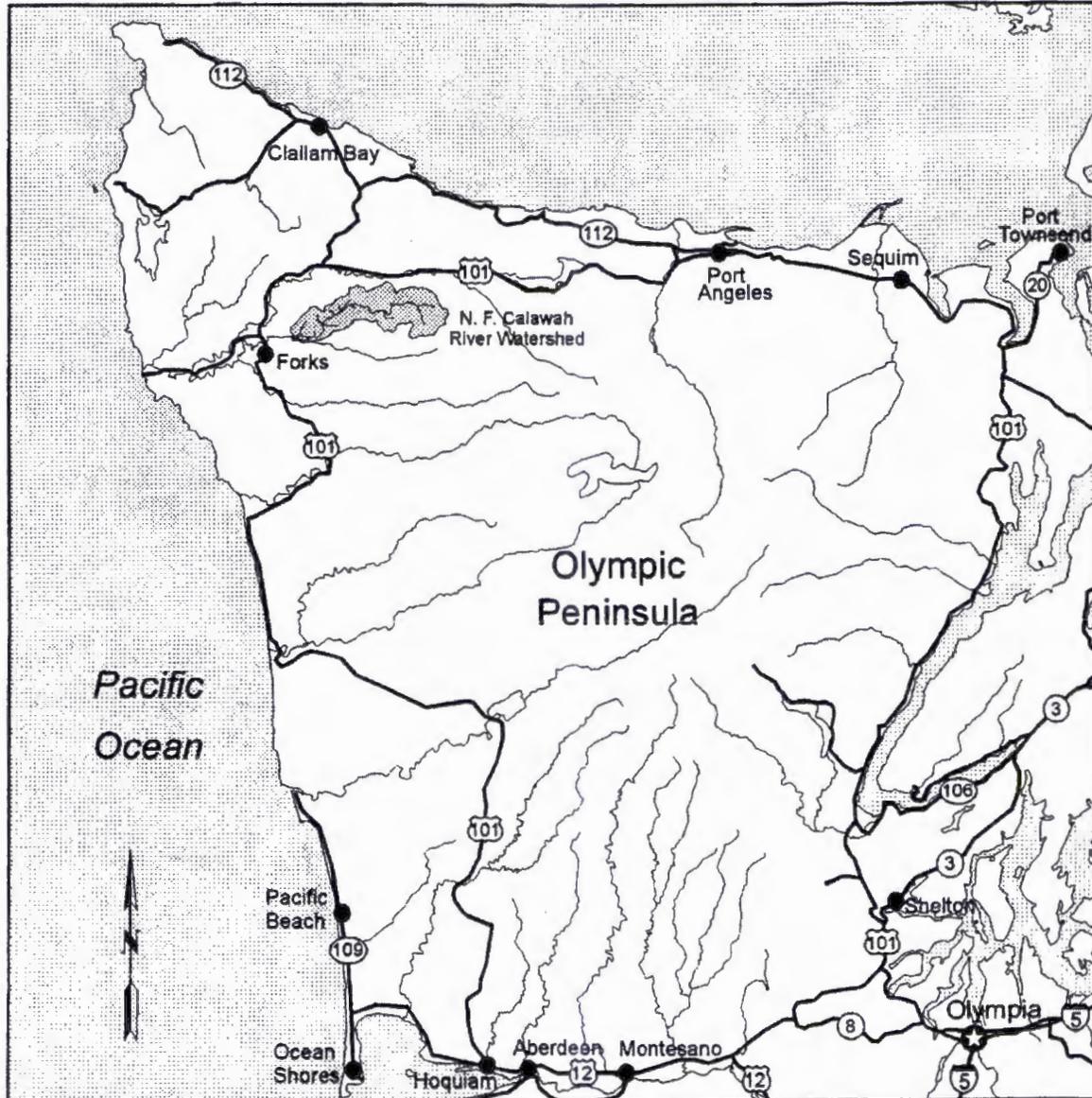
This is a nonproject proposal conducted under Washington Forest Practices Rules, (Chapter 222- 22 WAC), specifically for the review of new mass wasting prescriptions for the reanalysis of an existing watershed analysis (WAC 222-22-090) for the North Fork Calawah WAU. The Mass Wasting Reanalysis consists of an assessment, Module K, and prescriptions. The assessment identifies mass wasting hazards (i.e., landforms with landslide potential) present in the WAU and documents forest practices that have contributed to the occurrence of landslides. The prescriptions are based on the assessment and specify mandatory forest practices measures that are likely to prevent or avoid adverse future impacts to fish habitat and water quality in the streams in the WAU. If enacted, the proposed prescriptions would become enforceable rules for the subject area. Future proposals consistent with the approved mass wasting prescriptions would not be classed as IV Special FPAs for potentially unstable slopes and would be exempt from SEPA. Future proposals may trigger SEPA for other reasons, or may be class IV Special if activities proposed are not consistent with these updated prescriptions. See WAC 222-16-050(1)(d) (ii) and (iii).

This is a nonproject action, so many site-specific questions in this checklist are not applicable. See Supplemental Sheet for additional information.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

North Fork Calawah Watershed Administrative Unit in Clallam County – parts of the following townships: T28N R12W, T28N R13W, T29N R11W, T29N R12W, T29N R13W, T30N R11W

See North Fork Calawah Watershed Analysis vicinity map, below.



Scale 1:1,000,000



Scale 1:10,000,000

North Fork Calawah River Watershed Analysis

Location Map

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other

Site includes all listed slope forms.

b. What is the steepest slope on the site (approximate percent slope)?

Along the northern edge and northwest corner of the watershed, hillslope gradients range from 40 to 70 percent; on the eastern and southern edges of the watershed, hillslopes gradients are greater than 60 percent; and many individual inner gorges, bedrock hollows and cliffs exceed 90%. Cliff faces can be as steep as 150%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Hillslopes have colluvial soils derived from the decomposition of lithic sandstone and siltstone; Solleks very gravelly loam, 60-90% slopes, well drained is the most prevalent hillslope soil; others are similar. The valley floor includes glacial terraces of Solduc very gravelly sandy loam. This is described as a very deep, somewhat excessively drained soil that has formed in glacial outwash that has loess and volcanic ash in the upper layers. Along the floodplain and low river terraces of the North Fork Calawah River is Queets silt loam; this soil is described as a very deep, well-drained soil formed in silty alluvium.

Reference: Halloin, L. J., 1987. Soil Survey of Clallam County Area, Washington. United States Department of Agriculture, Soil Conservation Service, in cooperation with WDNR, WSU, and the Clallam County Commissioners. 214 pp., 67 plates.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

Yes. There is evidence of historic slope failures within the North Fork Calawah WAU. These are generally associated with slopes greater than 70% within convergent landforms such as bedrock hollows and inner gorges. The prescriptions and map units contained in the North Fork Calawah Watershed Analysis were developed in lieu of standard rules to address cumulative effects from forest practices.

Six mass wasting map units (MWMU) have been identified and are described in Module K. These are inner gorges, bedrock hollows, convergent headwalls, outer edges of meander bends, small, sporadic deep-seated landslides, and relict deep-seated landslides, MWMU #1-6 respectively.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. No grading or filling is directly proposed by this nonproject proposal. There is likely to be filling and grading under future forest road construction projects. Where grading or filling may have effects on public resources, prescriptions have been written to prevent or avoid adverse impacts.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. No clearing or construction is directly proposed by this nonproject proposal. Forest road construction and timber harvests are likely to occur under future FPAs in this WAU. The prescriptions are designed to prevent or avoid landslides; other environmental protections, including the avoidance of surface erosion, remain subject to Washington Forest Practices Rules. Surface Erosion prescriptions 1 and 2 are still in effect from the original watershed analysis.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

No structures are anticipated with this proposal, nor are any paved roads or other impervious surfaces.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. The prescriptions are designed to prevent or avoid landslides by limiting harvest within MWMU to yarding corridors and guyline circles, by preventing the placement of fill within MWMU, and by installing cross-drain culverts that direct water away from potentially unstable areas. These requirements also reduce or control surface erosion as addressed under other Washington Forest Practices Rules. Surface Erosion prescriptions 1 and 2 are still in effect from the original watershed analysis. *New Timing Restrictions for road construction across MWMU's are a new element not evaluated under previous environmental review ce*

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

There are likely to be dust and vehicle smoke emissions typical of forest road construction, timber harvest, and silvicultural operations; this proposal is not a change from previous conditions.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

None.

3. Water

a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The North Fork Calawah River and its tributaries are on this site. The North Fork confluences with the South Fork and becomes the Calawah River, which is within the Quillayute River Watershed.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. The original watershed analysis contains detailed assessments of the potential water quality impacts of future forest practices and this proposal provides updated prescriptions designed to prevent and avoid landslides under which future activities in the North Fork Calawah WAU will be conducted. Future forest practice activities will require work over, in and within 200-feet of water. Washington Forest Practices Rules that address other environmental issues remain in effect including: Type Np/Ns equipment limitation zones, Type Np riparian buffers and Type F fish-bearing riparian buffers.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These

prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Where potentially unstable slopes occur on the 100-year flood plain, these prescription will be applied. At any other location on the 100-year flood plain, standard forest practices rules would apply. And the specific projects will be mapped using Forest Practice Activity Maps.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Typical forest road drainage patterns result in collection of runoff water in ditches and dispersal of runoff onto the forest floor and into natural channels. Prescriptions in this proposal specify that runoff collected in ditches be dispersed onto the forest floor at closely spaced intervals on stable landforms wherever possible, and with energy dispersal mechanisms in place to reduce delivery of sediment to streams.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Waste materials in the traditional sense of non-source pollutants (e.g., pesticides or oil) are not generated. Fine sediment is generated from road surfaces and exposed soil in harvest areas. The prescriptions and applicable Washington Forest Practices Rules address these sources of fine sediment.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

This nonproject proposal is an assessment of watershed conditions and a set of prescriptions under which forest practices in the North Fork Calawah WAU will be conducted. The proposed prescriptions, applicable Washington Forest Practices Rules and Board Manual guidance include measures to reduce or control surface, ground and runoff water. Drainage pattern impacts should not occur under current forest practices. Measures to address adverse impacts will be addressed on a case by case basis.

4. Plants

a. Check the types of vegetation found on the site:

deciduous tree: alder, maple, cottonwood, cherry, other

evergreen tree: fir, cedar, pine, hemlock, spruce, other

shrubs

grass

pasture

crop or grain

Orchards, vineyards or other permanent crops.

wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other

water plants: water lily, eelgrass, milfoil, other

other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Future forest practices such as road construction and timber harvest will result in the removal of vegetation and removal and/or alteration of tree cover.

c. List threatened and endangered species known to be on or near the site.

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Washington State's Forest Practices Rules require reforestation with commercial tree species after timber harvest to preserve forest land productivity.

e. List all noxious weeds and invasive species known to be on or near the site.

Scotch Broom.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

birds: hawk, heron, eagle, songbirds, other.

mammals: deer, bear, elk, beaver, other.

fish: bass, salmon, trout, shellfish, other.

Hawk, songbirds, deer, bear, elk, beaver, salmon, trout, lamprey, eagle, goshawk

b. List any threatened and endangered species known to be on or near the site.

Northern Spotted Owl and Marbled Murrelet Habitat occurs within the North Fork Calawah WAU.

c. Is the site part of a migration route? If so, explain.

All of Washington State is considered part of a migration route. This area lies within the neotropical migratory bird flightways and is used as winter and summer grounds for deer and elk.

d. Proposed measures to preserve or enhance wildlife, if any:

Adherence to Washington Forest Practice Rules which require various protections for wildlife including RMZ's and wildlife trees. Future forest practice activities which occur within critical habitat(s) of threatened and endangered species per WAC 222-16-080 will be class IV Special proposals and require a project specific SEPA process.

e. List any invasive animal species known to be on or near the site.

None known.

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These

prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Future operations will use diesel fuel and gasoline only to the extent to conduct forest practices activities.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None.

7. Environmental health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Future activities will create only those hazards and risks associated with normal forest management operations. This may include hydraulic fluid or diesel fuel spills. If contamination from spills occur, the proponent must contact the Department of Ecology.

1) Describe any known or possible contamination at the site from present or past uses.

None known.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. None known.

4) Describe special emergency services that might be required.

Incidental EMS services may be required for future forest management operations.

5) Proposed measures to reduce or control environmental health hazards, if any:

None.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Future activities will create only those noise levels associated with normal forest practices activities. These may include logging and road construction equipment operation.

3) Proposed measures to reduce or control noise impacts, if any:

None.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The entire WAU is under forest management by Rayonier Washington Timber Company and other private timber companies, Olympic National Forest (USFS), and WADNR. There is only one family-owned 29.8 acre home site and ranch.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Yes. None. None.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

Bridges belonging to Rayonier Washington Timber Company and the USFS exist within the watershed. House and barns belong to the owners of the 29.8 acre ranch.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

Commercial Forestland where the prescriptions apply.

f. What is the current comprehensive plan designation of the site?

Commercial Forestland where the prescriptions apply.

g. If applicable, what is the current shoreline master program designation of the site?

N/A

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Unknown. If a portion of the site is proposed for conversion to uses other than forestry, it will require a class IV General FPA with any potential critical areas reviewed in a SEPA process involving Clallam County.

i. Approximately how many people would reside or work in the completed project?

Future forest management activities will require employment usual to these activities.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Follow all applicable laws. This non-project proposal does not propose changes to the existing and projected land uses.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

Follow all applicable laws. This non-project proposal involves keeping forest lands of long-term significance productive while preventing and avoiding landslides triggered by forest practice activities.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

N/A

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any:

N/A

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Hunting, fishing, hiking, camping and associated wilderness activities.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

13. Historic and cultural preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

No.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

The North Fork Calawah WAU was not heavily traversed or utilized by aboriginal people in traditional times. This has to do primarily with the difficulty of access by canoe. Although the WAU was not used commonly, it was naturally turned to in uncommon times (like periods of famine or when game was simply difficult to find). Because of its seclusion, this watershed figures prominently in spiritual beliefs and mythic narrative, but sites of physical archaeology are unknown and unlikely (Module I- Cultural Resources Assessment).

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Module I- Cultural Resources Assessment was completed in the original watershed analysis. An anthropology professor, Dr. Jay Powell, University of British Columbia, presented his results from years of working with the Quileute Tribe.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

All future proposals will be screened in the Forest Practices Risk Assessment Mapping System for known conflicts with Cultural or Archeological Resources.

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The watershed can be accessed via Hwy 101, Mary Clark County Road, Cooper Ranch County Road, USFS roads and private and State logging roads.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

N/A

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

Private and State logging roads will be constructed for access to logging areas. These roads will be proposed in future FPAs.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Transportation volumes will be typical of those associated with normal forest management operations and normal wilderness recreational activities.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No. The prescriptions proposed in this non-project SEPA will become applicable rules to prevent or avoid landslides triggered by forest practice activities including road construction. They regulate the locations and methods of road construction within the watershed.

h. Proposed measures to reduce or control transportation impacts, if any:

None.

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other

None.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: Julie J. Dieu

Name of signee: Julie Dieu

Position and Agency/Organization: Geomorphologist, Rayonier

Date Submitted: January 23, 2017

D. SUPPLEMENT SHEET FOR NONPROJECT ACTIONS (Do not use this sheet for project action)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage or release of toxic or hazardous substances; or production of noise?

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities. These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. As such, this proposal is likely to reduce forest practice-related discharges to water. Future operations pursuant to this proposal will involve only emissions to air; production, storage or release of toxic or hazardous substances; or production of noise normal to forest practice activities. No increases are expected.

2. Proposed measures to avoid or reduce such increases are:

N/A

3. How would the proposal be likely to affect plants, animals, fish or marine life?

As stated above, the North Fork Calawah Watershed Reanalysis includes a set of prescriptions designed to prevent or avoid landslide-related impacts to water quality and aquatic habitat. Future operations pursuant to this proposal, in addition to implementing the prescriptions, will be conducted under Washington Forest Practices Rules and federal endangered species regulation regarding plant and animal life. This proposal is not likely to result in adverse change in the effects of normal forest practices activities on plant and animal life. Fish habitat is expected to improve, as is habitat for other naturally occurring aquatic and riparian plant and animal species.

4. Proposed measures to protect or conserve plants, animals, fish or marine life are:

Refer to Questions 4d and 5d in the body of the checklist.

5. How would the proposal be likely to deplete energy or natural resources?

The proposal is unlikely to deplete energy or natural resources except as energy is normally consumed during timber harvest and road construction and except as timber, a renewable resource, is normally harvested.

6. Proposed measures to protect or conserve energy and natural resources are:

No measures are aimed at energy conservation since the impacts of this proposal are negligible. Prescriptions to ^{prevent} ~~present~~ and avoid mass wasting of soils are specifically intended to avoid mass soil movement and the resulting loss of resource productivity.

7. How would the proposal be likely to use of affect environmentally sensitive areas or areas designed (or eligible or under study) for governmental protection: such as parks, wilderness, wild and scenic rivers, threatened or engendered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

The North Fork Calawah Watershed Reanalysis is an assessment of mass wasting risks and a set of prescriptions designed to prevent and avoid landslides triggered by forest practices activities.

These prescriptions are intended to protect water quality and aquatic habitat in ways additional to other applicable watershed analysis prescriptions and Washington Forest Practices Rules. Future operations on State and private land pursuant to this proposal are subject to State and federal laws regarding wetlands, threatened or endangered species habitat, historic or cultural sites, and floodplains. No parks, wild and scenic rivers, or prime farmlands exist within the proposal. The federal government may propose changes to land-use of the federal land within the North Fork Calawah WAU - this proposal is not expected to have negative impact on federal timber management policy.

8. Proposed measures to protect such resources or to avoid or reduce impacts are:

None.

9. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline used incompatible with existing plans?

The proposal is unlikely to affect land and shoreline use - the land subject to the proposal is and is likely to remain industrial forest land used for timber production.

10. Proposed measures to avoid or reduce shoreline and land use impacts are:

None.

11. How would the proposal be likely to increase demands on transportation or public services and utilities?

Activities likely to result from this proposal are not expected to increase demand on transportation or public service or utilities.

12. Proposed measures to reduce or respond to such demand(s) are:

None.

13. Identify, if possible, whether the proposal may conflict with local, state or federal laws or requirements for the protection of the environment.

No conflicts are anticipated.