

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:

Please adjust the format of this template as needed. 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: Rayonier 29.437
2. Name of applicant: Rayonier Washington Timberlands (RWTC)
3. Address and phone number of applicant and contact person: Mike Leavitt, Rayonier Washington Timber Company, 116 Quillayute Road, Forks, Wa. 98331. (360) 374-7214

4. Date checklist prepared: September 19, 2016
5. Agency requesting checklist: Department of Natural Resources
6. Proposed timing or schedule (including phasing, if applicable): October 2016
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Site will be reforested upon completion of harvest.

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

Geotechnical Report and Alternate plan including CMZ methodology prepared for this proposal, September 2016, by Julie Dieu, Geomorphologist for Rayonier. North Fork Calawah Watershed analysis.

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. Forest Practice Permit (pending).
10. List any government approvals or permits that will be needed for your proposal, if known. Forest Practice Permit.
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 proposal was initiated by Rayonier Washington Timber Company to construct/reconstruct 5,006 feet of road and harvest 105.2 acres of timber in the vicinity of the north Fork Calawah River. Geotechnical issues were identified in the Watershed Analysis and on hill slopes within the proposal, that required geotechnical review of the harvest area. The geotechnical issues have been reviewed by a licensed Geomorphologist and a report is attached to the FPA. These issues include identification and recommendations for protection of unstable slopes including the placement of 3 yarding corridors within mapped unstable slopes. The proposal also includes an alternate plan for RMZ hardwood conversion along the Calawah River.

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.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

Steep-Mountainous

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

140%

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.

Soil Type is primarily Solleks very gravelly loam, 60-90%, well drained; Queets silt loam, well drained; and Solduc very gravelly loam as per soil survey of Clallam County.

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

Yes. Inner gorges and bedrock hollows are present within and adjacent to this proposal.

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.

Approximately 8,500 cubic yards of excess soil from road construction, will be hauled to stable waste areas and 6,900 cubic yards of ballast will be added to existing roads .

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

Yes, minor amounts of erosion will occur associated with road reconstruction and use.

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

Approximately 2% will be covered by road or related cut/fill slopes.

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

Road will be reconstructed to forest practice standards. Drainage along roads has been carefully designed and is detailed in the geotech report.

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.

Engine exhaust during road reconstruction. Emissions will occur for a 2 week period.

- 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:

Construction equipment will have appropriate emission controls.

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.

Yes. The North Fork Calawah River forms the western boundary of the proposal and several unnamed Type F, NS and NP streams bisect the harvest area. All are tributary to the North Fork Calawah River.

- 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.

Yes timber harvest will occur Within 50' of the River and within 10' of other streams. Cable tailholds and full suspension logging may occur in and over all streams including the North Fork Calawah River. Road construction will occur in and over Type F, NP & NS streams.

- 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.

No

- 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.

Storm water will be captured by road ditches and culverts and diverted to stable locations.

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

No.

- 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:

Follow forest practice rules. The attached Geotech report outlines specific recommendations to be implemented as part of this proposal. These include: Leaving additional trees to help increase wind firmness. Within yarding corridors, Utilize elevated tail hold trees and intermediate supports, keepas narrow as possible and fell all trees in all corridors side slope within the feature. Use a 90'-100' Tower to achieve maximum lift. In addition buck trees 40 feet and lighten payloads for corridor from landing at 24+00 on the 2922.0152 road. The 2922.015 road will be decommissioned upon completion of harvest.

4. Plants

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

deciduous tree: **alder**
 evergreen tree: **fir, hemlock, spruce**
 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?

105.2 acres of secondgrowth conifer totaling appx. 2,104mbf.

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

None Known.

FPRAM search confirms no known conflicts with plant T&E species. JRh 9/26/16

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

None

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

Scotch broom and tansy ragwort have been observed near the site.

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, eagle, songbirds**
mammals: **deer, bear, elk**
fish: **None**

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

None

FPRAM Search confirms no known conflicts with T&E animal species. Jan 9/26/16

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

This site is part of the Pacific Flyway.

*No impacts are anticipated from this proposal
Jan 9/26/16*

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

Follow all forest practice requirements.

- f. 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.

None

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

None

- 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.

During the summer months there is risk of wildfire. During use, refueling and maintenance of equipment there are risks of spill.

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

None

- 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

- 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.

Diesel Fuel.

- 4) Describe special emergency services that might be required.

Fire suppression, hazardous waste cleanup, EMS services.

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

Pump truck and fire suppression tools required during fires season. Operator will have accident prevention plan.

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. **Short term noise associated with heavy equipment use during construction window.**

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. **Forestland. No.**
- 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. This project is a part of a working forest. None. NA.**
- c) 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.**
- d) Describe any structures on the site. **None**
- e) Will any structures be demolished? If so, what? **No**
- f) What is the current zoning classification of the site? **Forestland**
- g) What is the current comprehensive plan designation of the site? **Commercial Forestland CF-80**
- h) If applicable, what is the current shoreline master program designation of the site? **Conservancy**
- i) Has any part of the site been classified as a critical area by the city or county? If so, specify. **No.**
- j) Approximately how many people would reside or work in the completed project? **NA**
- k) Approximately how many people would the completed project displace? **NA**
- l) k. Proposed measures to avoid or reduce displacement impacts, if any: **None**
- m) L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: **None**

- n) m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: **None**

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: **None**

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? **NA**
- 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 anticipated**
- 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: **None**

12. Recreation

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

Hunting and fishing

b. Would the proposed project displace any existing recreational uses? If so, describe. **Yes while construction is in process.**

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? 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. **No. None known.**

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. **DNR will review project thru its TRAX system.**

FPRAM search confirms no known conflicts with cultural or archaeological resources.

gpc 9/26/16

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. **None**

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. **HWY 101, Cooper Ranch County road and private forest access 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? **None.**
- 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). **5,006 feet of new and existing forest access roads will be constructed or improved.**
- 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? **NA**
- 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**
- h. Proposed measures to reduce or control transportation impacts, if any: **None.**

15. Public Services

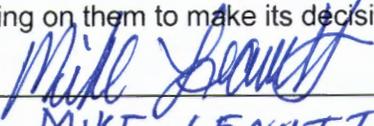
- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. **Not likely.**
- b. Proposed measures to reduce or control direct impacts on public services, if any. **None.**

16. Utilities

- a. Circle utilities currently available at the site: **None**
 electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
 other _____
- 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: 

Name of signee MIKE LEAVITT

Position and Agency/Organization FIELD ENGINEER / RAYONIER

Date Submitted: 9/22/2016