

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: [\[help\]](#)

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 [\[help\]](#)

1. Name of proposed project, if applicable: [Chen/Vashon Harvest](#)
2. Name of applicant: [Fukuen Eric Chen](#)
3. Address and phone number of applicant and contact person: [Owner Address 2450 109th Place, Bellevue, WA 98004 425.822.6075. Contact Person John Breithaupt 206.491.1908.](#)

4. Date checklist prepared: 8/11/2016
5. Agency requesting checklist: DNR Forest Practices
6. Proposed timing or schedule (including phasing, if applicable): Start Date Sept/Oct 2016
Finish Date Target November 2017.
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. No future plans, Class IV Special FPA for timber harvest only.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. Icicle Creek Engineers have completed a geo tech report to address possible issues related to a deep seated landslide, and aquifer recharge area.

← GEO REPORT IS available on FFRAM, with Forest Practices application # 2A189810 ckf 10/21

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. None

10. List any government approvals or permits that will be needed for your proposal, if known. DNR Class IV Special 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.) Project includes timber harvest of harvest approximately 1525 MBF of timber from 100 acres located on Vashon Island, Washington. The entire Chen Ownership is comprised of 192 acres. The owner has elected not to harvest portions of his ownership, adjacent to Lost Lake Recreation Area, to be considerate of recreational use of the nearby area.

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. The project is located in King County Washington on the south end of Vashon Island in portions of Section 36, Township 22 North, Range 02 East, W.M. as described on attached maps.

B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

1. Earth [\[help\]](#)

a. General description of the site: The site is comprised of timberland composed of mature Douglas Fir, Red Alder and Western Hemlock. The topography ranges from flat, rolling and steep portions, with a creek running through the center of the property.

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

- b. What is the steepest slope on the site (approximate percent slope)? 80%
- 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. Alderwood-Kitsap, Everett, Everett-Alderwood, and Seattle Muck.
- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. Yes, the geo-tech believes that the steep bench portions of the proposal are the result of a deep seated landslide approximately 10,000 years ago. He believes that the ground has stabilized and is no longer active (see geo tech report from Icicle Creek Engineers).
- 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 800' of logging road reconstruction work, removing an existing culvert that is in poor condition, and installing an 18" culvert using native fill. The culvert removal will require the removal of approximately 100 yards of fill to restore the creek basin to its original shape and condition.
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. Possible erosion could result from logging activity on hillside. The steep areas will be replanted with at least 300 Doug fir seedlings/acre, within six months of harvest.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? None
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: Water bar road, seed and mulch and exposed slopes and silt fence as needed.

2. Air [\[help\]](#)

- 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. Minor dust and engine omissions consistent with logging equipment and log trucks.
- 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: Place rock on roads to reduce dust, and water roads as required.

3. **Water** [\[help\]](#)

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. [There is a Class A & Class B unforested wetlands, as determined by DNR Forest Practice Rules . The larger wetland is five-acres, and the smaller Class B wetland is three-acres. Chen Creek flows through the project from west to east and empties into Puget Sound near the south end of Vashon Island. We will not infringe on any buffers established by DNR. There are no plans to suspend logs over Chen Creek, to log in between the wetlands, or to have equipment on lower portions of the Chen ownership as shown on attached maps.](#)

- 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, logging will occur adjacent to the stream and wetlands, however the DNR has established buffers for adequate protection of the stream and wetlands. No logging will occur within 200 feet of Puget Sound. Please see the attached FPA and maps, which identify the critical areas and 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. [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. Runoff from seasonal rains will be contained in ditches. Rainfall water will gather on designated yarding roads as shown on attached maps. **Waterbars, seeding mulching, ditch-outs, and silt-fence will prevent erosion and silt from entering wetlands, stream, and steep slopes.**

- 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. **An 18" culvert will be installed just below the headwater basin of Chen Creek as proposed by DNR during a pre-app meeting with Jason Sharp and Martin Eversaul.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: **Mulch, seeding, straw bales, silt fence and water bars will be installed on designated yarding roads to eliminate silt or erosion entering steep slopes during logging activities. Upon completion of harvest activities, designated yarding roads will be decommissioned by loosening soil compaction by using a cat with a ripper, and planted. Mulching, seeding, straw bales and silt fence will remain in place to prevent erosion or silt from entering steep slopes.**

4. **Plants** [\[help\]](#)

a. Check the types of vegetation found on the site: [\[help\]](#)

- Deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, 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? An even-age harvest will be completed on Unit 3. Units 1 & 2 will be an un-even aged harvest. Various patches of brush will be altered by logging activity, consistent with logging activities. See attached maps.

c. List threatened and endangered species known to be on or near the site. **None**

FPRAM check confirms, no conflicts with T&E species. CKF 10/21/16

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: Replanting of all units with 300 Doug Fir Seedlings per acre, will be completed within six months of harvest of each unit.

e. List all noxious weeds and invasive species known to be on or near the site. **None**

5. **Animals** [\[help\]](#)

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. **Deer, songbirds, and grouse.**

Examples include:

- birds: hawk, heron, eagle, songbirds, other:
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site. **None**

FPRAM check confirms, no conflicts with T&E species. CKF 10/21/16

c. Is the site part of a migration route? If so, explain. **No**

Most of Washington is considered part of the Pacific Flyway, but no impacts are anticipated as a result of this proposal.
CKF 10/21/16

d. Proposed measures to preserve or enhance wildlife, if any: Replanting trees to maintain current use as commercial timberland. Although not specifically required by DNR, uneven-aged harvests on units 1 & 2 will be inter-planted with Doug Fir, to prevent erosion from occurring on or near steep slopes.

e. List any invasive animal species known to be on or near the site. **None**

6. Energy and Natural Resources [\[help\]](#)

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. **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 [\[help\]](#)

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. **None**

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. **None**

4) Describe special emergency services that might be required. **Medical aid may be required if a worker is hurt during harvest operations.**

- 5) Proposed measures to reduce or control environmental health hazards, if any: All contractors will comply with Washington Department of Labor and Industries requirements to reduce or eliminate any injuries.

b. Noise [\[help\]](#)

- 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. Logging equipment, logging trucks, and chainsaws.
- 3) Proposed measures to reduce or control noise impacts, if any: Work will not commence before 7:00 AM in the morning, or continue after 5:00 PM in the afternoon.

8. Land and Shoreline Use [\[help\]](#)

- 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. Current use is timberland with mixed rural residential homes. Timber harvest will not affect current timberland use, or residential homes in area.
- 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, the entire project has been historically used as forest land. Upland portions of the property near Vashon Hwy have been selectively logged over the last twenty or so years. Those portions will benefit from being thinned and interplanted with Doug Fir. Much of the thinned acreage has over-mature Red Alder with full canopies, preventing any natural reforestation. No portions of the proposed project will be converted to non-forestry use. No portions of the project are currently designated as forest land tax classification.
- 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: Vashon Hwy will have occasional oversize equipment being offloaded or loaded onto lowboy trailers. There is excellent site distance on this portion of hwy, and special care will be taken to notify cars of activity.
- 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? [R-10 Residential](#)
- g. What is the current comprehensive plan designation of the site? [RA](#)
- h. If applicable, what is the current shoreline master program designation of the site? [N/A](#)
- i. *as any part of the site been classified as a critical area by the city or county? If so, specify. Yes, portions of the hillside as shown on the attached maps. [Steep slopes, wetlands, aquifer recharge, and deep seated landslide.](#)*
- j. Approximately how many people would reside or work in the completed project? [None](#)
- k. Approximately how many people would the completed project displace? [None](#)
- l. 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: [DNR Class IV Forest Practice Permit](#)
- n. m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [Tree planting & leaving 50% of trees on upland flat portions of project.](#)

9. Housing [\[help\]](#)

- 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 [\[help\]](#)

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed? None

b. What views in the immediate vicinity would be altered or obstructed? Views will be temporarily improved for homes that are located directly south of the timber harvest.

i. Proposed measures to reduce or control aesthetic impacts, if any: None

11. Light and Glare [\[help\]](#)

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: None

12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity? Hiking on owners private property may be temporarily affected during logging activities.

b. Would the proposed project displace any existing recreational uses? If so, describe. Yes, Hiking may be affected on owners private property during logging activitie.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: No trespassing signs may be put in place during logging activities for safety purposes.

x

13. Historic and cultural preservation [\[help\]](#)

- 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. **None**
Based on FPRATS check, there are none in the area. cxf 10/21/16
- 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. **None**
- 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. Site walk of harvest areas, consultation with DNR and department of archeology and historic preservation. **Consultation with DNR, King County, King County Parks, and online research.**
- 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 [\[help\]](#)

- 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. Vashon Hwy runs along the west boundary of the project. **Access will be from two existing logging roads that access Vashon Hwy as described on attached maps.**
- 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? Yes. **Metro Transit runs along Vashon Hwy and provides service to the area.**
- 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). **Yes, two private existing logging roads will be improved to access the project as shown on the attached maps.**

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. Yes, logging trucks will use Washinton State Ferries to deliver logs to local mills.
- 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? 7. There will be approximately five log truck loads hauled from the site, and two cars to carry logging equipment operators to the site each day. No models were used.
- 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. Yes, Vashon Hwy will have trucks entering and leaving the Hwy in the vicinity of 280th Ave.
- h. Proposed measures to reduce or control transportation impacts, if any: Signs that notify drivers showing "trucks entering and leaving the hwy will be placed at access pints during haul operations.

15. **Public Services** [\[help\]](#)

- 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. If there is an accident during the harvest work, fire or aid may be required.
- b. Proposed measures to reduce or control direct impacts on public services, if any. None

16. **Utilities** [\[help\]](#)

- a. Circle utilities currently available at the site: [\[help\]](#)
 electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
 other _____
- j. 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 [\[help\]](#)

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 John Breithaupt

Position and Agency/Organization Matrix & Associates LLC, Managing Member

Date Submitted: 10-15-2016

D. supplemental sheet for nonproject actions [\[help\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

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?

No Impact, DNR required buffers will mitigate risk.

Proposed measures to avoid or reduce such increases are:

DNR buffers, silt fence, seeding, mulching, waterbars, and ditch-outs as needed to reduce water or erosion from entering steep hillsides.

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

No Impact

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

Project approval by DNR will establish buffers on all critical areas as defined by DNR, WDFW guidelines.

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

Mature trees will be harvested from portions of project, all areas will be replanted, or have sufficient trees retained to continue the current land use of commercial forest land.

Proposed measures to protect or conserve energy and natural resources are:
Replanting, and retention of 50 of trees on upper flat portions of project.

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

No impact. RMZ & WMZ buffers will be established by DNR & WDFW to prevent any damage or impact to critical areas.

Proposed measures to protect such resources or to avoid or reduce impacts are: Buffers set by DNR & WDFW to mitigate impact.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans? No impact.

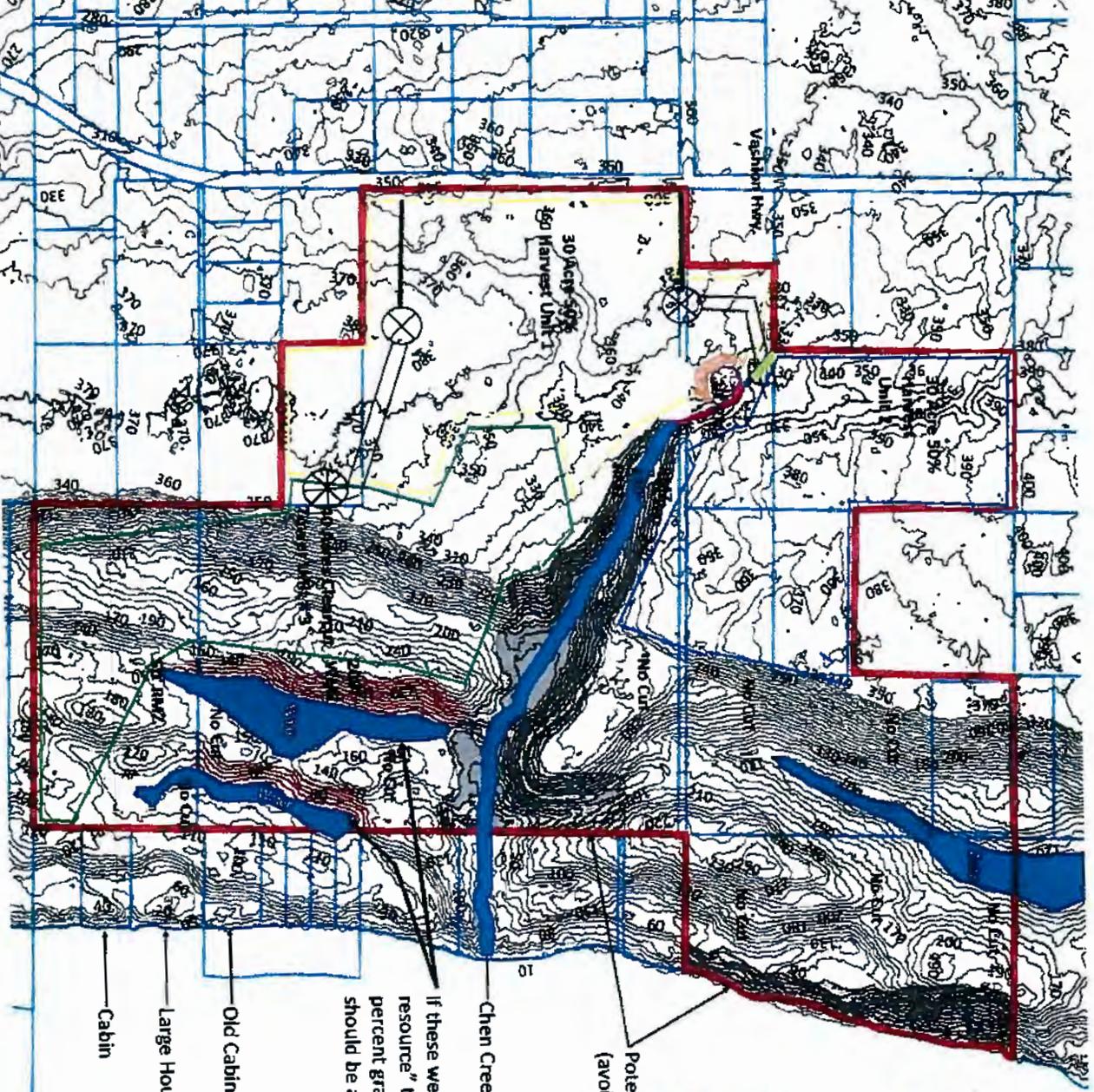
Proposed measures to avoid or reduce shoreline and land use impacts are: None

6. How would the proposal be likely to increase demands on transportation or public services and utilities? None

Proposed measures to reduce or respond to such demand(s) are: None

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment. Buffers set by DNR & WDFW will mitigate any impact to the environment.

Preliminary Map - Potentially unstable slopes and landforms (ICE, July 21, 2016)



- Landing
- Tower Landing
- Designated Skid Trail
- Haul Roads
- Unit 1
- Unit 2
- Unit 3
- No Stream
- Np Stream
- Fish Stream
- Sidewall Seep
- Potentially Unstable Slopes (avoid; rule defined)
- Sidewall Seep 50' buffer
- 18' x 40' Culvert Install

Chen Creek

If these wet areas are considered "public resource" then the steep slope (more than 70 percent grade) uphill from these wet areas should be avoided

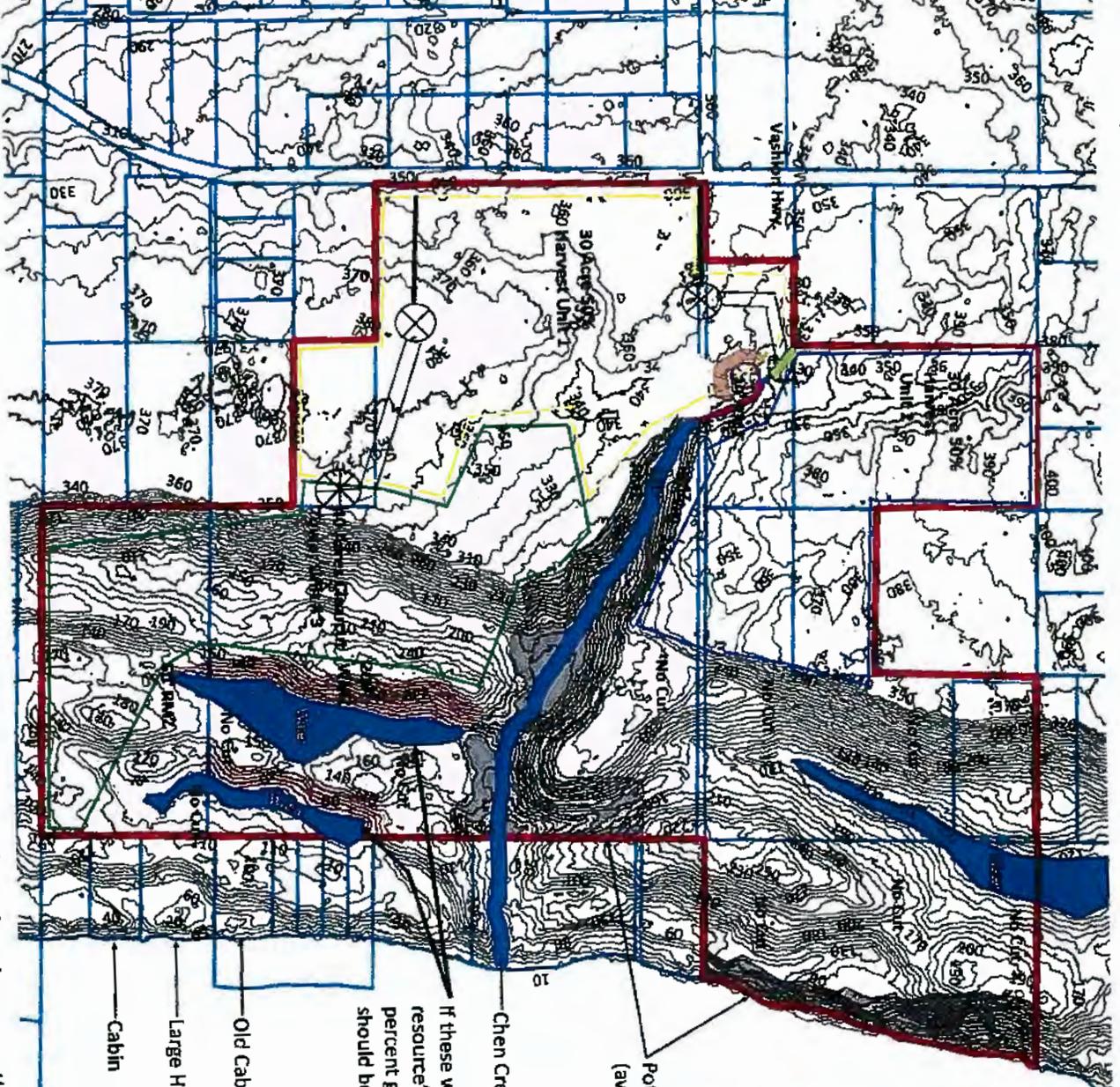
Old Cabin

Large House and Tennis Court

Cabin

Note: no "buffers" are shown related to riparian or other sensitive areas.

Preliminary Map - Potentially unstable slopes and landforms (ICE, July 21, 2016)



⊗ Landing

⊗ Tower Landing

Designated Skid Trail

Haul Roads

Unit 1

Unit 2

Unit 3

Ns Stream

Np Stream

Fish Stream

Sidewall Seep

Potentially Unstable Slopes (avoid; rule defined)

Sidewall Seep 50' Buffer

18' x 40' Culvert Install

Chen Creek

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 Large House and Tennis Court
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