

# 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*** [\[HELP\]](#)

1. Name of proposed project, if applicable: **Faust Culvert**
2. Name of applicant: **Alisa Faust**

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

**Alisa Faust**  
**902 North 15<sup>th</sup> Court**  
**Ridgefield, WA 98642**  
**(360) 521-5014**

4. Date checklist prepared:

**8/23/2019**

5. Agency requesting checklist:

**City of La Center Public Works Building Planning Services**

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

**Upon permit approval, when stream channel is dry**

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

**A single-family home will be constructed following culvert and driveway installation**

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

- **Faust Critical Areas Report and Mitigation Plan**
- **JARPA**

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 other applications pending.**

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

- **Critical Areas Permit**
- **SEPA**
- **JARPA**
- **HPA**

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.)

The project involves installing a gravel driveway off Northwest Pacific Highway to access the interior of the approximately 5.48-acre property for the purpose of constructing a single-family residence. An approximately 1,958-square foot portion of the gravel driveway will be located within the riparian buffer of the unnamed Type Ns stream. Providing access to the central portion of the property will require the gravel driveway to cross the unnamed stream onsite (labeled Stream 1 in attached critical areas report). An approximately 16-foot long and 16-inch wide culvert will be installed, allowing drainage to continue beneath the driveway. The culvert will be installed based on guidance from Washington Administrative Code (WAC) Chapter 220-660-190, which dictates that the culvert be installed at a zero-gradient, be “countersunk a minimum of twenty percent of the culvert rise at the culvert outlet downstream”, and the minimum culvert diameter will be “equal to or greater than the average channel bed width plus twenty-five percent.” In this case, the channel of Stream 1 is 6- to 12-inches wide, necessitating a 16-inch wide culvert.

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 proposed project will occur within Clark County Tax Parcels 258640-000 and 258755-000, located north of 34100 Northwest Pacific Highway in La Center, Washington, within a portion of Section 33, Township 5 North, and Range 1 East of the Willamette Meridian (Figures 1 and 2).

A site plan and vicinity map are included within the critical areas report and mitigation plan submitted with this permit application, Titled: *Faust Critical Areas Report and Mitigation Plan* (Ecological Land Services 2019).

## **B. Environmental Elements** [\[HELP\]](#)

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

a. General description of the site:

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

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

**10-15%**

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.

**According to the Natural Resources Conservation Service online soil mapper, soils within the vicinity of the driveway are comprised of Gee silt loam.**

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

No.

- 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.

**Gravel will be obtained from a clean and approved local source and will be placed onsite within the driveway footprint, crossing Stream 1 at the 16-foot culvert. No gravel will be placed within the waterbody itself. The proposed gravel driveway is approximately 550 feet long (Figure 3 in attached critical areas report).**

**Approximately 0.05 cubic yards of soil will be removed within the footprint of the culvert to facilitate a 20 percent counter-sink.**

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
**No, an approximately 5-inch wide and 5-inch deep infiltration trench will temporarily be installed along the downslope side of the driveway and house to capture and infiltrate runoff. After construction, the infiltration trench will be restored to its original grade. Silt-fencing will be installed along the edges of the stream banks in the vicinity of the driveway to limit erosion and prevent impacts to water quality. Disturbed areas on the property will immediately be re-seeded with a native wild rye mix upon completion of the project.**
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

**Approximately 10 percent including driveway and proposed residence.**

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

**Silt-fencing will be installed along the edges of the stream banks in the vicinity of the driveway to limit erosion and prevent impacts to water quality, a 5-inch wide and 5-inch deep infiltration trench will be installed on the downslope side of the driveway, and disturbed areas will immediately be re-seeded with a native wild rye mix upon completion of the project. Native vegetation will be preserved, where possible. Furthermore, a mitigation plan consisting of installing 60 native shrubs will further reduce the potential for erosion.**

## **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 air emissions are associated with running gasoline powered construction vehicles. These emissions will be temporary and will not degrade the air quality over time.**

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 property functioning exhaust systems.**

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

a. Surface Water: [\[help\]](#)

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.

**An unnamed Type Ns (seasonal, non-fish-bearing) stream originates in the western portion of the property and flows east for approximately 340 feet before intersecting Jenny Creek in the central portion of the property. The stream channel is approximately 6- to 12-inches wide. For the purposes of this project, the unnamed stream will be referred to as “Stream 1.” The unnamed stream is also referred to as Stream 1 in the critical areas report prepared for this project.**

**Jenny Creek is a Type F (fish-bearing and perennial) stream located primarily offsite to the south, with portions intersecting the southeast and southwest corners of the property. Jenny Creek flows offsite to the south for approximately 2,000 feet before draining into the East Fork Lewis River. The stream channel is approximately 1- to 2-feet wide.**

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.

**Approximately 1,958-sq. ft. of the proposed gravel driveway will be located within the 75-foot riparian buffer associated with Stream 1. To provide access to the interior of the property, the gravel driveway will cross Stream 1, necessitating an approximately 16-foot long and 16-inch wide culvert to facilitate continued flow within the stream. A critical areas report including a mitigation plan was completed to address potential impacts to the stream and is included with this permitting package (Figure 3).**

**The proposed single-family residence is located over 200-feet away from all critical areas.**

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.

**Approximately 0.05 cubic yards of soil will be removed within the footprint of the culvert 16-foot to facilitate a 20 percent counter-sink. Gravel will be obtained from a clean and**

**approved local source and will be placed onsite within the driveway footprint, crossing Stream 1 at the 16-foot culvert. No gravel will be placed within the waterbody itself.**

- 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.

**Project is not located within a 100-year floodplain.**

- 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: [\[help\]](#)

- 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 groundwater will be withdrawn for culvert installation. The proposed residence will be on City water.**

- 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.

**No waste materials will be discharged to groundwater from the culvert installation or driveway. The proposed residence will utilize septic and reserve drain-fields. The septic system and reserve will be located approximately 15-feet northeast of the residence and is approximately 2,400-square feet. Only one residence will be served by the septic system, which could potentially serve up to five people.**

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 driveway will be constructed with its highest point in the center to encourage potential runoff generated from the new gravel driveway to sheet flow to either side and filtrate**

through the gravel side slope prior to infiltrating into the vegetated upland areas. The road will be designed to shed water away from Stream 1 at the culvert crossing. Stream 1 originates offsite to the northwest and conveys groundwater discharge and general hillside runoff to Jenny Creek, which is tributary to EFL. The culvert will maintain flows within the creek.

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

Potential runoff from the driveway will sheet flow to either side and filtrate through the gravel side slope prior to infiltrating into the upland areas. The road will be designed to shed water away from the stream at the culvert crossing. The property is densely vegetated by persistent, thin-stemmed vegetation which the Washington Department of Ecology recognizes as having the potential to considerably improve water quality and reduce the velocity of water downslope.

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

**No. The culvert will maintain the current drainage pattern.**

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

- The culvert will be adequately sized for the stream channel (16-inches wide and 16-feet long).
- The driveway will be designed to shed runoff away from the stream channel.
- Driveway runoff will filter through the gravel side slopes and will infiltrate in upland areas.
- Best management practices will be employed including installing the culvert in the dry season and seeding or otherwise stabilizing disturbed areas immediately following installation of project elements.

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

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

- 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: Invasive Himalayan blackberry

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

Installation of the gravel driveway will require removing a small amount of vegetation to facilitate access to the interior of the property. Vegetation removed to install the driveway consists of Douglas-fir, Himalayan blackberry, Indian plum, and common snowberry. The proposed residence and septic system will require removing vegetation within an approximately 6,000-square building envelope located entirely outside of critical areas. Vegetation within the footprint of the residence and septic system consists primarily of coniferous trees (Douglas-fir) and Himalayan blackberry.

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

The Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species Mapper indicates there are no listed threatened or endangered species within the vicinity of the project area.

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

Mitigation measures will consist of planting 80 native shrubs in the riparian buffer of Stream 1, wherein project impacts are expected to occur. Shrubs selected for mitigation include 20 common snowberry, 20 red-flowering currant, and 20 Indian plum.

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

- Himalayan blackberry (*Rubus armeniacus*)

## 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.

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.

The Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species Mapper indicates that Jenny Creek (Type F) potentially contains multiple salmonid species including coho (*Oncorhynchus kisutch*), rainbow trout (*Oncorhynchus mykiss*), and steelhead.

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

The site is part of the Pacific Flyway and hosts multiple migratory bird species.



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

**Clearing limits will be visibly marked prior to construction, bare areas will be seeded with a native wild rye mix, and, 60 native shrubs will be planted within the riparian buffer of Stream 1 wherein vegetation is primarily forested and herbaceous. Planting native shrubs will encourage development of a healthy understory and will enhance habitat opportunities over current conditions within the area of development.**

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

**None known.**

## **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.

**The culvert will not require energy. The proposed residence will utilize electric and water utilities provided by the City of La Center. Utilities will be extended north from Northwest Pacific Highway, through the driveway to service the home.**

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.

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.

**There are no hazardous chemicals or conditions within the project area.**

- 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. Equipment refueling will not occur onsite.**

- 4) Describe special emergency services that might be required.  
**None.**

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

**Not applicable.**

*b. Noise*

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

**The property currently experiences regular human activity including noise from vehicles (Northwest Pacific Highway) and general property maintenance noise from neighboring parcels, none of which are expected to impact the proposed project.**

- 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.

**Anticipated short-term noise occurring during project includes noise associated with construction vehicles and equipment, which will occur during normal business hours (Monday-Friday 8:00 AM – 5:00 PM). Long-term noise will include general residential traffic utilizing the crossing and general property maintenance activities associated with a single-family residence.**

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

**Construction equipment will have property functioning mufflers and will occur during normal business hours.**

**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.

**The site is currently undeveloped. Adjacent properties all contain single-family residences and periodically mowed fields. The proposed project will be consistent with land uses currently occurring on adjacent properties.**

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?

**No.**

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:

**Not applicable, surrounding properties do not contain working farmland or forest land.**

c. Describe any structures on the site.

**There are currently no structures onsite.**

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

**Not applicable.**

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

**Low density residential (LDR-7.5) by the City of La Center.**

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

**Low Density Residential.**

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

**Not applicable.**

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

**A freshwater riverine wetland is mapped by Clark County in the same general area as Jenny Creek. The riverine wetland mapped by Clark County is likely a reflection of the riparian environment associated with Jenny Creek, not of a wetland environment. An investigation conducted by an ELS biologist on July 16, 2019 concluded that no wetlands were present on the property. However, a portion of Jenny Creek was identified and mapped onsite, along with the unnamed Type Ns stream (Stream 1). Jenny Creek is a Type F stream, requiring a 200-foot riparian buffer, and Stream 1 is a Type Ns stream, requiring a 75-foot buffer.**

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

**Four to eight people.**

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

**Not applicable, no people will be displaced.**

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

**Not applicable.**

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

**The proposed project is consistent with the zoning designation assigned by the City of La Center.**

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

**Not applicable.**

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

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

**One middle-income housing unit will be provided.**

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

**Not applicable, no housing units will be lost.**

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

**Not applicable.**

## **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?

**The culvert will not extend above ground height. The proposed house is 31-feet tall at its highest point. All building faces will primarily be constructed with LP Smart Siding: engineered wood that offers protection from moisture, fungal decay, and insect pests.**

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

**The culvert will not block views. The proposed home will also not block views.**

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

**Existing vegetation will be retained where possible.**

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

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

**The culvert crossing will not produce light or glare. The residence may have landscape lighting, outdoor lighting, and automotive traffic typical of a single-family home that would occur primarily in the evening and at night.**

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:

**Not applicable.**

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

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

**No designated recreational activities are available within the vicinity of the project. Informal recreational opportunities may include wildlife viewing, particularly migratory bird species.**

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

**Displacement of recreational activities is not expected to occur as a result of this project.**

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

- 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.

**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.

**None have been identified at this time. If required, a cultural resource assessment will be obtained.**

- 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.

**Not applicable.**

- 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.

**Not applicable.**

#### **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.

**The property is accessible from the south via Northwest Pacific Highway, no alterations to public streets or highways are proposed. The proposed gravel driveway will connect with Northwest Pacific Highway in the southwest portion of the property.**

- 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?

**The property is not currently served by public transit. The nearest transit stop, La Center Park and Ride, is located approximately 1.2-miles southeast of the property.**

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

**The proposed project would provide two additional parking spaces, utilized by the new residents of the completed residence. No parking spots will be eliminated by the proposed project.**

- 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).

No.

- 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 non-passenger vehicles). What data or transportation models were used to make these estimates?

**Three to four additional vehicular trips per day may be generated by the completed project (vehicular trips associated with one additional housing unit), with peak volumes occurring between 7:00 AM-8:00 AM and 5:00 pm to 6:00 PM.**

- 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 agricultural or forest products will be transported on the new driveway.**

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

None. Not applicable.

### **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.

**The culvert will not increase the need for public services. The single-family residence will not significantly impact public services available in the surrounding area.**

- 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:

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

- c. 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.

**The culvert will not require utilities. Utilities will be extended to the residence through the driveway. Water will be provided by the City of La Center Not sure who provides electricity who is your bill made out to?**

**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: Jacob McManus \_\_\_\_\_

Position and Agency/Organization: Biologist/Ecological Land Services \_\_\_\_\_

Date Submitted: 9/11/19 \_\_\_\_\_



## **FIGURES & PHOTOPLATES**

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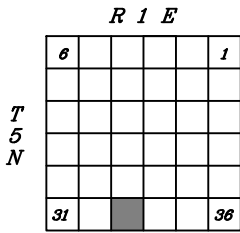
WASHINGTON



Latitude: 45.8680  
Longitude: -122.6791

LOCATION MAP

PROJECT VICINITY MAP

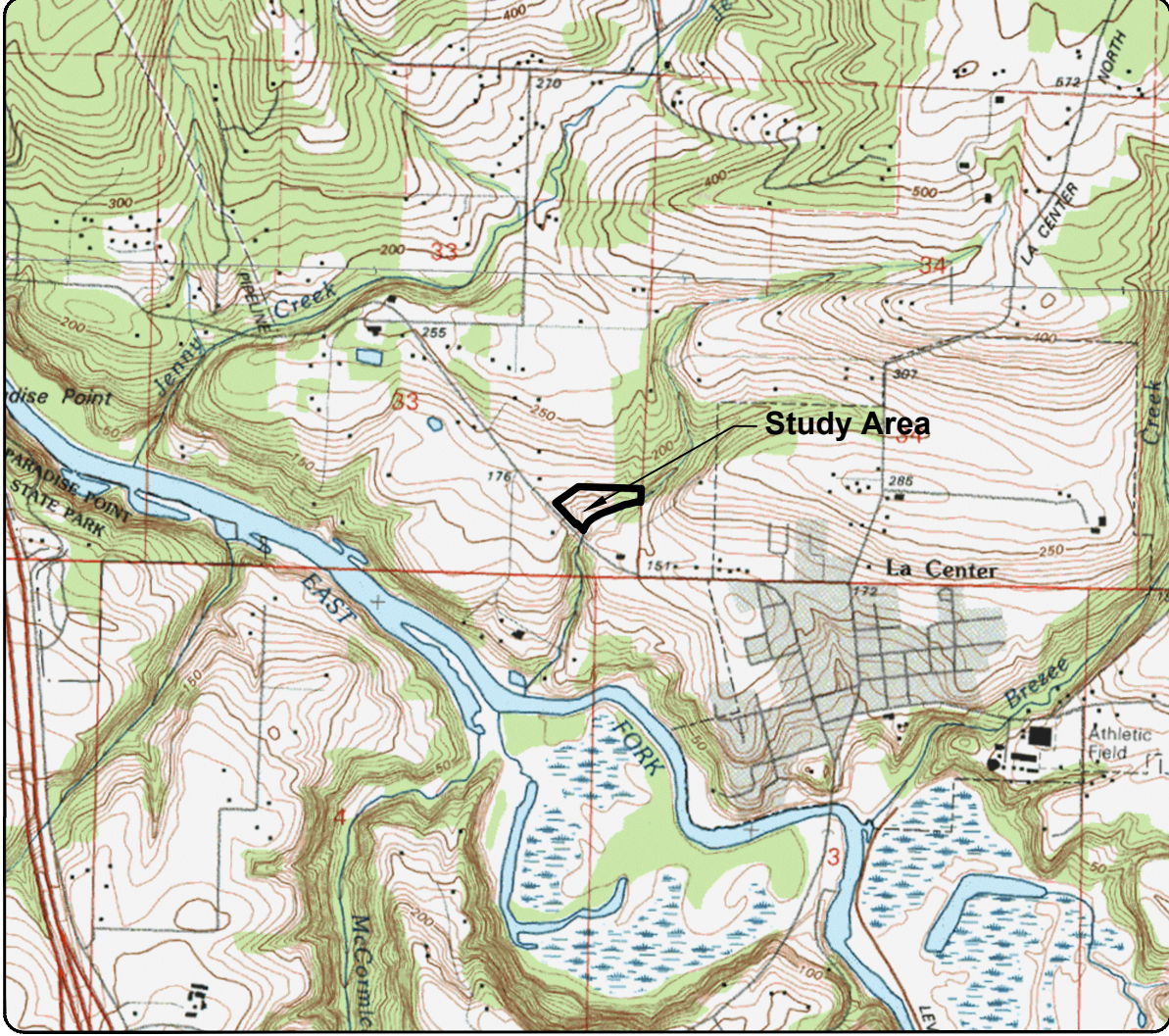
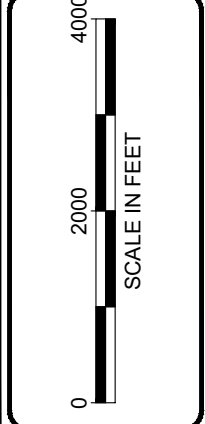


**NOTE:**  
USGS topographic quadrangle map reproduced using MAPTECH Inc., Terrain Navigator Pro software.

Figure 1  
VICINITY MAP  
Faust Permitting  
Alisa Faust  
City of La Center, Clark County, Washington  
Section 33, Township 5N, Range 1E, W.M.






DATE: 9/10/19  
DWN: EF  
REQ. BY: JM  
PRJ. MGR: KTW  
CHK: KTW  
PROJECT NO: 3007.01

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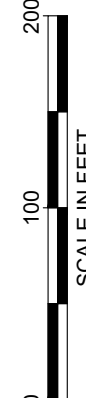
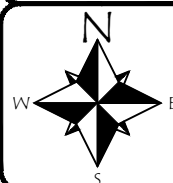


**LEGEND:**

-  Study Area
-  Parcel Boundaries
-  Stream with Flow Direction
-  Stream Buffer
-  Proposed Driveway

**NOTE(S):**

1. Parcels from Clark County GIS Department (June 2018).
2. Streams were mapped by an ELS Biologist using a hand-held GPS unit with submeter accuracy and aerial imagery from DNR, Google™.



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 PROJECT NO:  
 3007.01

Figure 2  
 EXISTING CONDITIONS SITE MAP  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.

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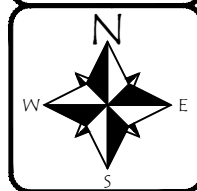
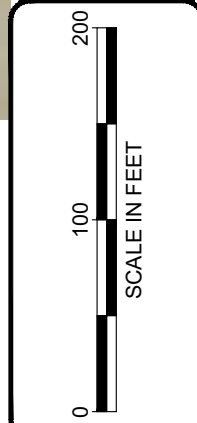


Figure 3  
**PROPOSED CONDITIONS SITE PLAN**  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.

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**Ecological Land Services**



**LEGEND:**

- Study Area
- Parcel Boundaries
- Stream with Flow Direction
- RHA Buffer
- Proposed Driveway
- Lot Set Back 20'
- Silt Fencing
- Infiltration Trench

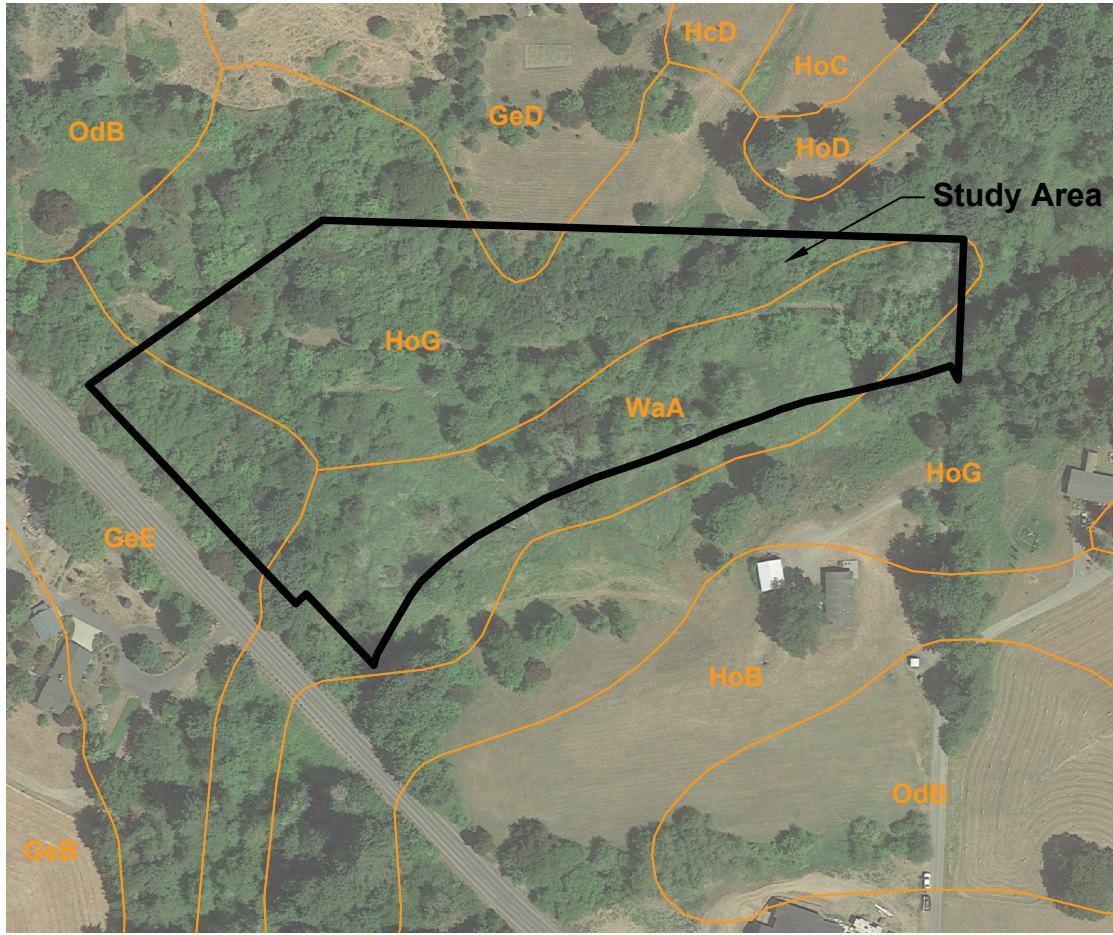
**LEGEND:**

- RHA Buffer Impacts (1,958 sq. ft.)
- Riparian Enhancement Area (3,000 sq. ft.)
- Proposed Culvert

**NOTE(S):**

1. Parcels from Clark County GIS Department (June 2018).
2. Stream centerlines were mapped by an ELS Biologist using a hand-held GPS unit with submeter accuracy and aerial imagery from DNR, Google™.

Common Name	Scientific Name	Size	Spacing	Amount
<i>Shrubs</i>				
Red-flowering currant	<i>Ribes sanguineum</i>	Gallon	6-foot on-center	20
Snowberry	<i>Symphoricarpos albus</i>	Gallon	6-foot on-center	20
Indian plum	<i>Oemleria cerasiformis</i>	Gallon	6-foot on-center	20
<b>Total</b>				<b>60</b>



**LEGEND:**

- GeB** Gee silt loam, 0 to 8 percent slopes. Not hydric.
- GeD** Gee silt loam, 8 to 20 percent slopes. Not hydric.
- GeE** Gee silt loam, 20 to 30 percent slopes. Not hydric.
- HcD** Hesson clay loam, 8 to 20 percent slopes. Not hydric.
- HoB** Hillsboro silt loam, 3 to 8 percent slopes. Not hydric.
- HoC** Hillsboro silt loam, 8 to 15 percent slopes. Not hydric.
- HoD** Hillsboro silt loam, 15 to 20 percent slopes. Not hydric.
- HoG** Hillsboro silt loam, 30 to 65 percent slops. Not hydric.
- OdB** Odne silt loam, 0 to 5 percent slopes. **Hydric.**
- WaA** Washougal loam, 0 to 3 percent slopes. Not hydric.

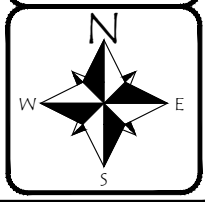
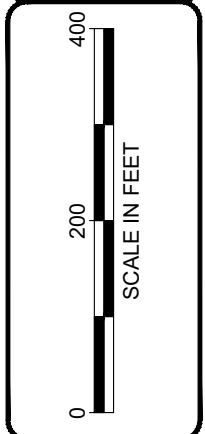
**NOTE(S):**

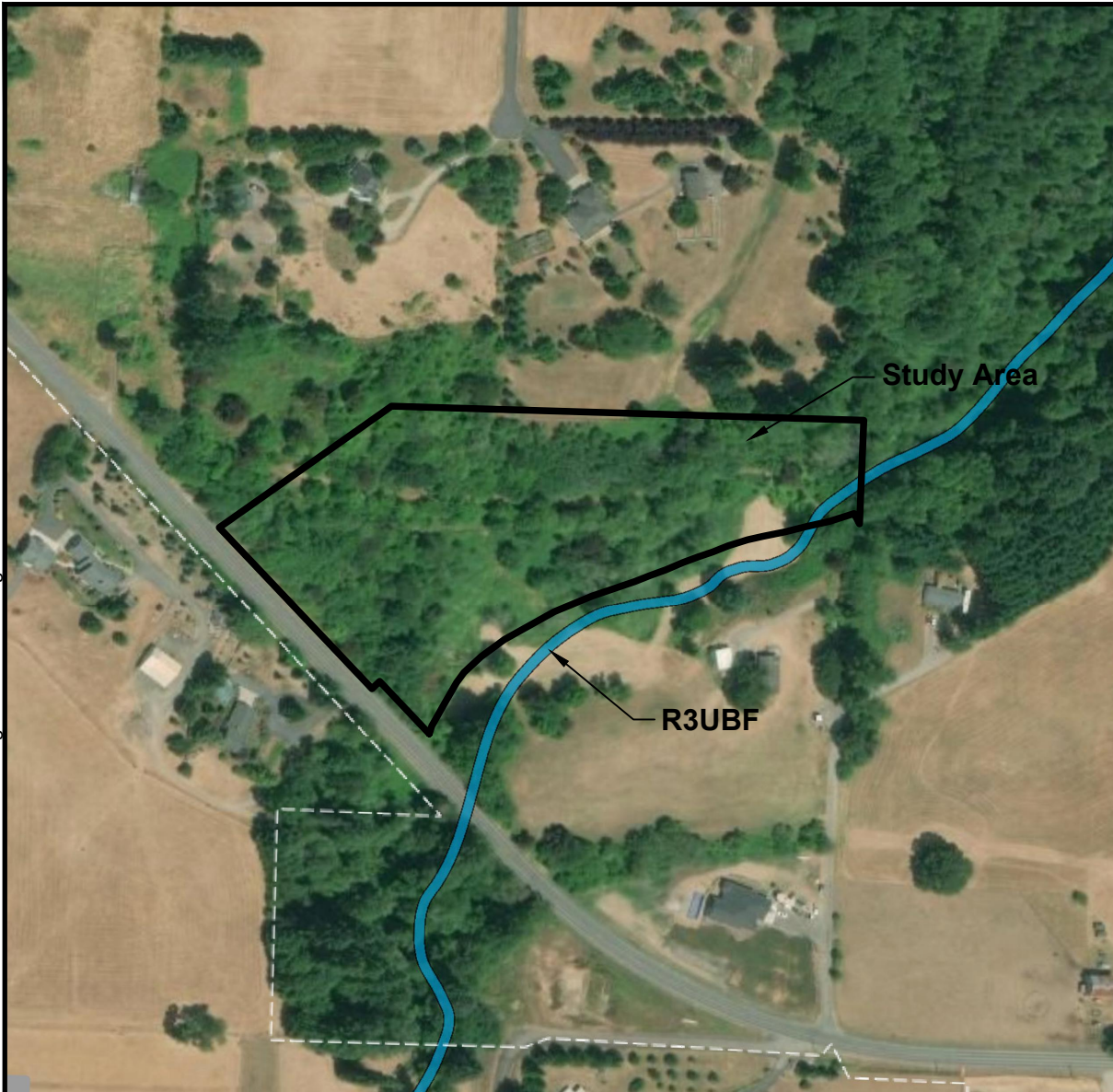
1. Map provided online by NRCS at web address:  
<http://websoilsurvey.nrcs.usda.gov/app/>

Figure 4  
 NRCS SOIL SURVEY MAP  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.

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Mapped wetlands indicated onsite by US Fish & Wildlife Service.

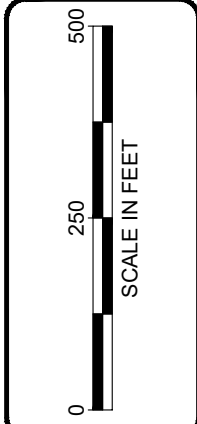
**LEGEND:**

 Riverine

**R3UBF** Riverine, Upper Perennial, Unconsolidated Bottom, Semipermanently Flooded.

**NOTE(S):**

1. Map provided online by US Fish & Wildlife Service at web address: <http://www.fws.gov/wetlands/data/index.html>



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Figure 5  
 NATIONAL WETLANDS INVENTORY MAP  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.

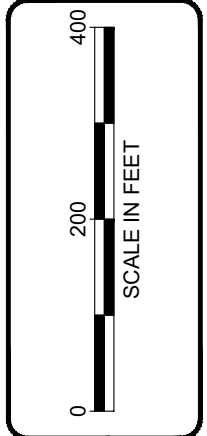


**Clark County Soils and Wetlands Inventory**

**LEGEND:**

 County Wetland Inventory

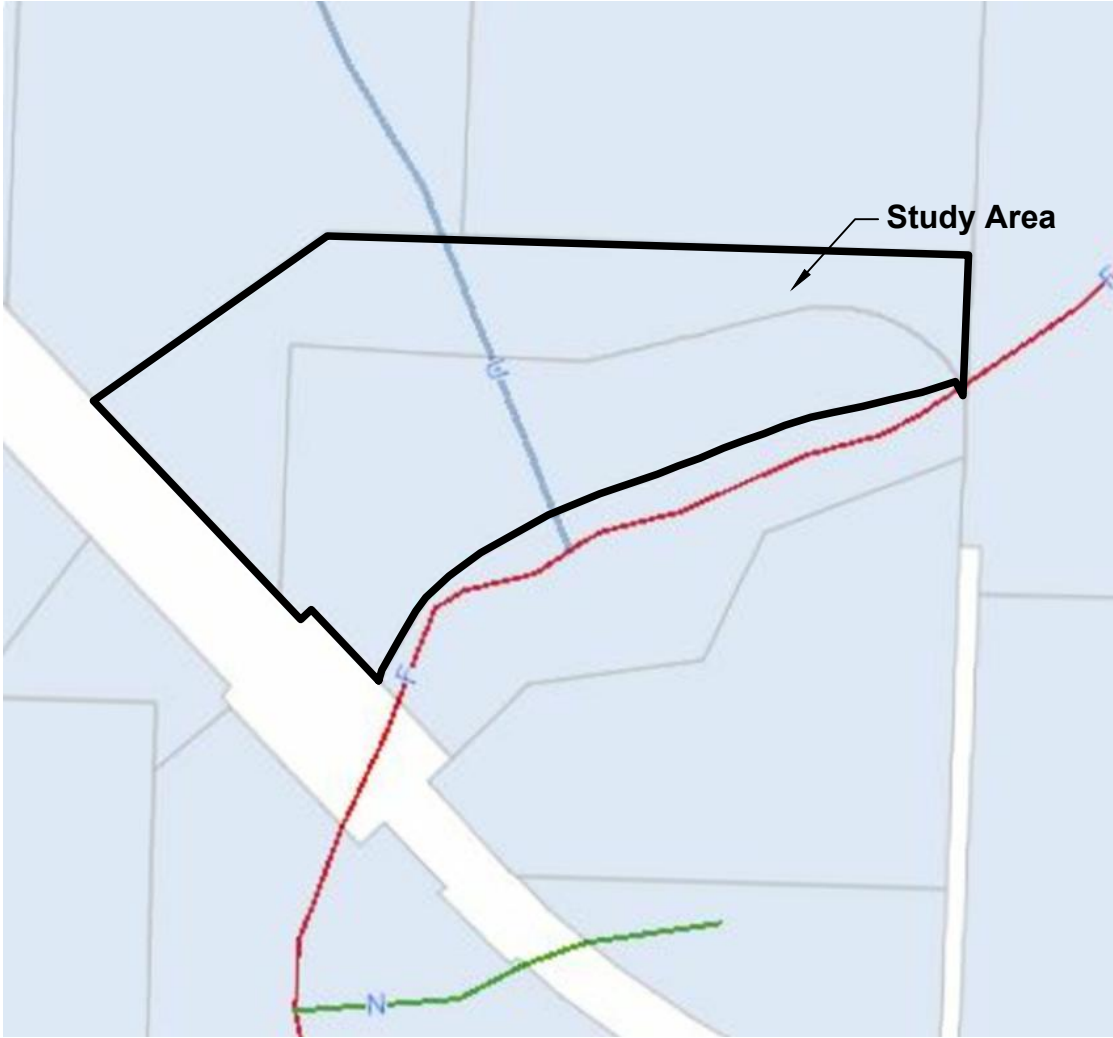
**NOTE:** Map provided online by Clark County, Washington at web address: <http://gis.clark.wa.gov/imf/imf.jsp?site=zoning>




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Figure 6  
 CLARK COUNTY WETLANDS MAP  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.



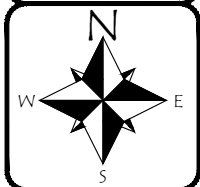
Mapped streams indicated onsite by the Washington State Department of Natural Resources (DNR).

**LEGEND:**

**Streams**

Streams

- Type S
- Type F
- Type N, Np, Ns
- U, unknown
- X, non-typed per WAC 222-16



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Figure 7  
 DNR STREAM TYPE MAP  
 Faust Permitting  
 Alisa Faust  
 City of La Center, Clark County, Washington  
 Section 33, Township 5N, Range 1E, W.M.