

# ANNEX A. HUPAČASATH FIRST NATION EVACUATION ZONES

## Overview

The following tear away sheets will provide the following information to support evacuation planning:

- Zone Map;
- Primary Use;
- Primary and Secondary Arterial Roads;
- Muster Points, Infrastructure, and Reception Centers;
- Estimated Evacuation Zone Details; and
- Planning Notes.

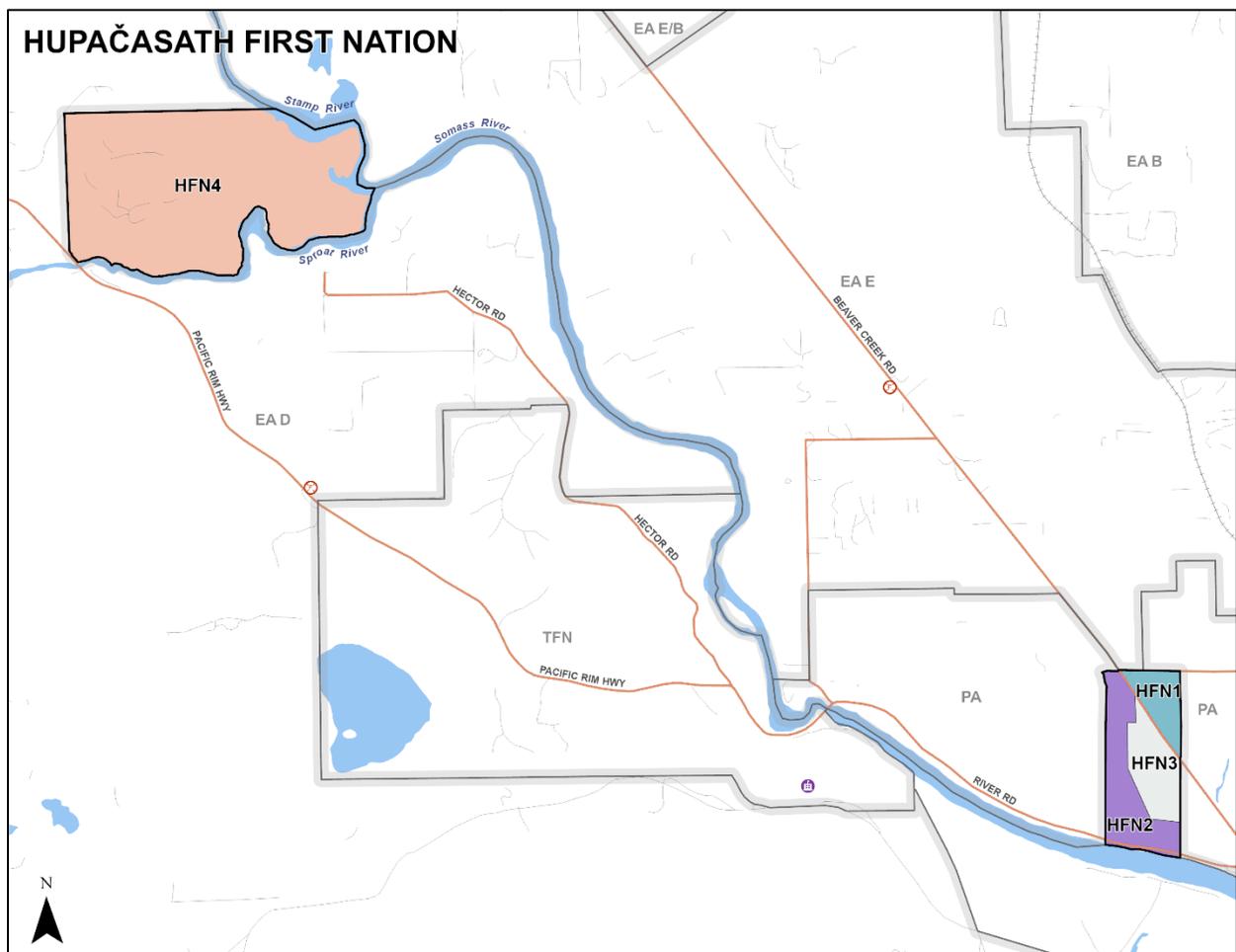


Figure 1: Hupacasath First Nation Evacuation Zone Overview

---

The following notes apply to all the evacuation zones. This is important to interpret the data provided in the tear-away sheets correctly.

### **Estimated Single Vehicle Travel Time Through Zone**

The travel time through the zone is calculated based on a reduced speed of 30km/hour.

### **Estimated Zone Evacuation Time**

The zone evacuation time calculates how long it will take to evacuate the zone based on estimated population, average vehicle capacity, longest expected drive through the zone, road density (average vehicle length plus average vehicle gap), and the time it will take for that road density to pass through the zone at the expected speed of 30 km/hr.

### **Destinations / Reception Centres**

The evacuation plan is focused on evacuations within the Alberni Valley. Potential evacuation destinations and reception centres may be identified for awareness of each evacuation zone. However, these need to be verified and determined on a case-by-case basis based on the type of emergency and emergency social service needs.

### **Muster Points**

Limited or no muster points were identified for the evacuation zones. These should be identified based on the type of emergency, the direction of evacuations, and available staffing and resources in the area to implement as required.



## A.1 ZONE #HFN1

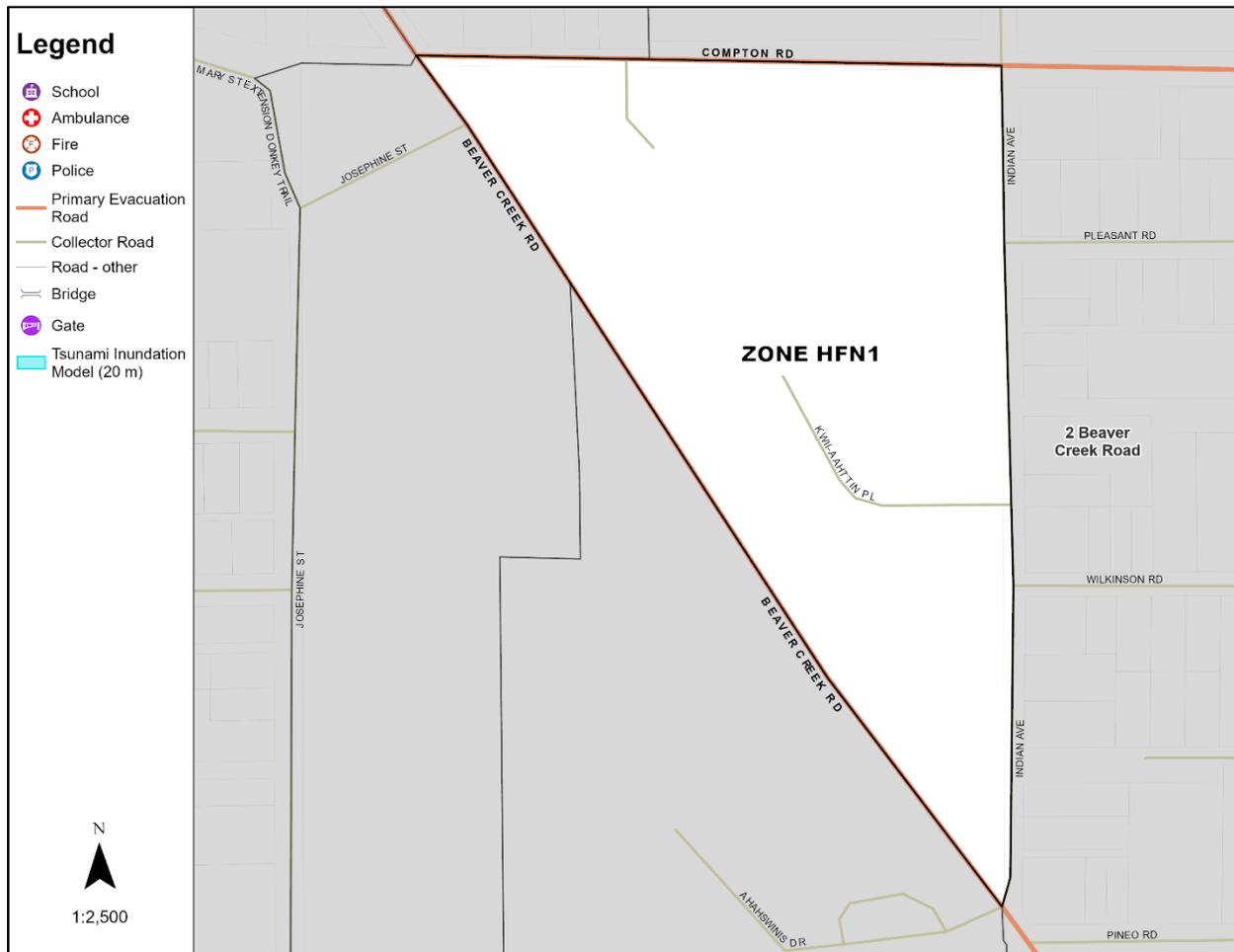


Figure 2: Zone #HFN1 Map

### **PRIMARY USE**

This zone is primarily residential with some forest cover.

### **PRIMARY & SECONDARY ARTERIAL ROADS**

**Primary Road:** Indian Ave

**Secondary Roads:** Kwii Aaht Tin Pl and Compton Rd

## MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
<b>Muster Points</b>	<ul style="list-style-type: none"> <li>• Beaver Creek Volunteer Fire Department (Tsunami)</li> <li>• Hupačasath House of Gathering</li> </ul>
<b>Critical Infrastructure</b>	<ul style="list-style-type: none"> <li>• Indian Ave</li> <li>• Compton Rd</li> <li>• Kwii Aaht Tin PI</li> </ul>
<b>Evacuation Direction</b>	<ul style="list-style-type: none"> <li>• South: Residents can head south via Indian Ave or Beaver Creek Rd to connect to Highway 4. They can then evacuate west or east along the valley depending on the final destination.</li> <li>• North: Residents can head north via Indian Ave or Beaver Creek Rd and take a variety of roads depending on the final destination.</li> <li>• During a non-tsunami evacuation, and if the Highway 4 bridge is inaccessible to cross, head east on Compton Rd and turn right on to Gertrude St, which has a bridge to get over Kitsuksis Creek. Note that Gertrude St is within the Inundation zone.</li> </ul>
<b>Potential Reception Centre</b>	<ul style="list-style-type: none"> <li>• N/A</li> </ul>

## ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
<b>Estimated Population</b>	37
<b>Estimated Single Vehicle Travel Time Through Zone</b>	1.2 min
<b>Estimated Zone Evacuation Time</b>	12 min

All times are approximate and for planning purposes only. They do not include the advance time required to develop and distribute information to the public. Evacuations are dynamic, and times are influenced by factors that may not be apparent during planning activities. The EOC should rely on the subject matter experts available during an evacuation for guidance.

## KEY CONSIDERATIONS

**Tsunami/Somass Watershed:** Tsunami and Somass Watershed modelling show the zone is susceptible to impacts from rising water levels. Modelling shows the entire zone is within the Tsunami Inundation Zone. Only the bottom corner of the zone at the intersection of Beaver Creek Rd and Indian Ave is within the Flood Extents, excluding the freeboard.

**Dam Breach:** Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

**Beaver Creek Rd:** The road borders the zone, but no residential homes directly face the road. It is primarily a drive-through route for the area. Beaver Creek Road is an egress for zones within Hupačasath First Nation and ACRD Electoral Areas. If multiple zones require evacuation, impacts on the Beaver Creek Road can be mitigated through phasing. Coordination between local authorities should be initiated to reduce impacts



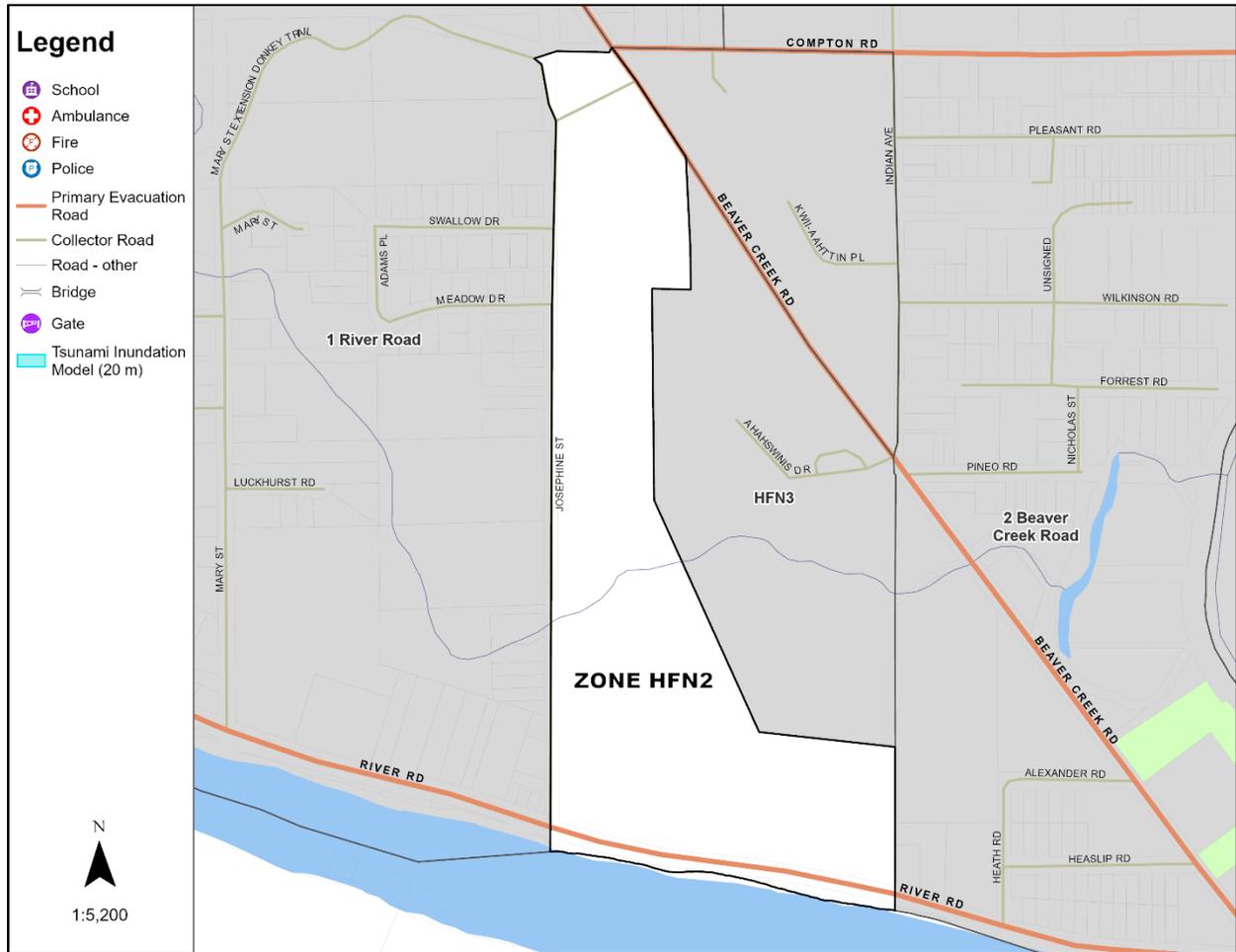
---

on the population and support an effective evacuation. For large evacuations, traffic control at Beaver Creek Road and Highway 4 should be considered.

**Tsunami Evacuations Ahahswinis IR 1:** Travel northwest on Beaver Creek Rd., past the hill at Pierce Rd. or Travel east on Compton, past Tsuma-as Elementary School, then north on Kitsuksis Rd.



## A.2 ZONE #HFN2



**Figure 3: Zone #HFN2 Map**

### **PRIMARY USE**

This zone is primarily residential with some forest cover and farmland. All homes have direct access to Highway 4 and Josephine St.

### **PRIMARY & SECONDARY ARTERIAL ROADS**

**Primary Road:** Highway 4 (River Road)

**Secondary Road:** Josephine St

## MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS

Item	Description
Muster Points	<ul style="list-style-type: none"> <li>Beaver Creek Volunteer Fire Department (Tsunami)</li> <li>Hupačasath House of Gathering</li> </ul>
Critical Infrastructure	<ul style="list-style-type: none"> <li>Highway 4</li> <li>Josephine St</li> </ul>
Evacuation Direction	<ul style="list-style-type: none"> <li>South: Residents can head south via Josephine St to connect to Highway 4. They can then evacuate west or east along the valley depending on the final destination.</li> <li>North: Residents can head north via Josephine St and take a variety of roads depending on the final destination.</li> </ul>
Potential Reception Centre	<ul style="list-style-type: none"> <li>N/A</li> </ul>

## ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:

Item	Description
Estimated Population	54
Estimated Single Vehicle Travel Time Through Zone	1.9 min
Estimated Zone Evacuation Time	13 min

All times are approximate and for planning purposes only. They do not include the advance time required to develop and distribute information to the public. Evacuations are dynamic, and times are influenced by factors that may not be apparent during planning activities. The EOC should rely on the subject matter experts available during an evacuation for guidance.

## KEY CONSIDERATIONS

**Tsunami/Somass Watershed:** Tsunami and Somass Watershed modelling show the zone is susceptible to impacts from rising water levels. Modelling shows the entire zone is within the Tsunami Inundation Zone. The bottom half of the zone is within the Flood Extents, but that excludes freeboard.

**Dam Breach:** Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

**Beaver Creek Rd:** The road borders a part of the zone, but no residential homes directly face the road. It is primarily a drive-through route for the area. Beaver Creek Road is an egress for zones within Hupačasath First Nation and ACRD Electoral Areas. If multiple zones require evacuation, impacts on the Beaver Creek Road can be mitigated through phasing. Coordination between local authorities should be initiated to reduce impacts on the population and support an effective evacuation. For large evacuations, traffic control at Beaver Creek Road and Highway 4 should be considered

**Tsunami Evacuations Ahahswinis IR 1:** Travel NW on Beaver Creek Rd., past the hill at Pierce Rd. Or NW on Beaver Creek Rd, then east on Compton, past Tsuma-as Elementary School, then north on Kitsuksis Rd. Alternatively, travel N on Josaphine St to Compton. Use caution to avoid routing along Hwy 4.

## A.3 ZONE #HFN3



Figure 4: Zone #HFN3 Map

### **PRIMARY USE**

This zone is a mix of farmland, forest cover, and a small residential area of Ahawahinis Dr. This zone is home to the Hupačasath House of Gathering.

### **PRIMARY & SECONDARY ARTERIAL ROADS**

**Primary Road:** Beaver Creek Rd

**Secondary Road:** Ahawahinis Dr

## **MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS**

Item	Description
<b>Muster Points</b>	<ul style="list-style-type: none"> <li>Beaver Creek Volunteer Fire Department (Tsunami)</li> <li>Hupačasath House of Gathering</li> </ul>
<b>Critical Infrastructure</b>	<ul style="list-style-type: none"> <li>Hupačasath House of Gathering</li> <li>Fuel storage</li> <li>Cannabis Production Facility</li> </ul> <ul style="list-style-type: none"> <li>Beaver Creek Rd</li> <li>Ahahawinis Dr</li> </ul>
<b>Evacuation Direction</b>	<ul style="list-style-type: none"> <li>South: Residents can head south on Beaver Creek Rd to connect to Highway 4. They can then evacuate west or east along the valley depending on the final destination.</li> <li>North: Residents can head north on Beaver Creek Rd and take a variety of roads depending on the final destination.</li> </ul>
<b>Potential Reception Centre</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>

### **ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:**

Item	Description
<b>Estimated Population</b>	28
<b>Estimated Single Vehicle Travel Time Through Zone</b>	0.9 min
<b>Estimated Zone Evacuation Time</b>	11.5 min

All times are approximate and for planning purposes only. They do not include the advance time required to develop and distribute information to the public. Evacuations are dynamic, and times are influenced by factors that may not be apparent during planning activities. The EOC should rely on the subject matter experts available during an evacuation for guidance.

### **KEY CONSIDERATIONS**

**Tsunami/Somass Watershed:** Tsunami and Somass Watershed modelling show the zone is susceptible to impacts from rising water levels. Modelling shows the entire zone is within the Tsunami Inundation Zone. Only the bottom half from the entrance to Ahahswinis Drive and south is within the Flood Extents, excluding the freeboard.

**Dam Breach:** Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

**Beaver Creek Rd:** The road borders the zone, but no residential homes directly face the road. It is primarily a drive-through route for the area. Beaver Creek Road is an egress for zones within Hupacasath First Nation and ACRD Electoral Areas. If multiple zones require evacuation, impacts on the Beaver Creek Road can be mitigated through phasing. Coordination between local authorities should be initiated to reduce impacts on the population and support an effective evacuation. For large evacuations, traffic control at Beaver Creek Road and Highway 4 should be considered.

**Tsunami Evacuations Ahahswinis IR 1:** Travel northwest on Beaver Creek Rd., past the hill at Pierce Rd. or Travel north on Kitsuksis Rd., past Tsuma-as Elementary School Elementary School.



## A.4 ZONE #HFN4

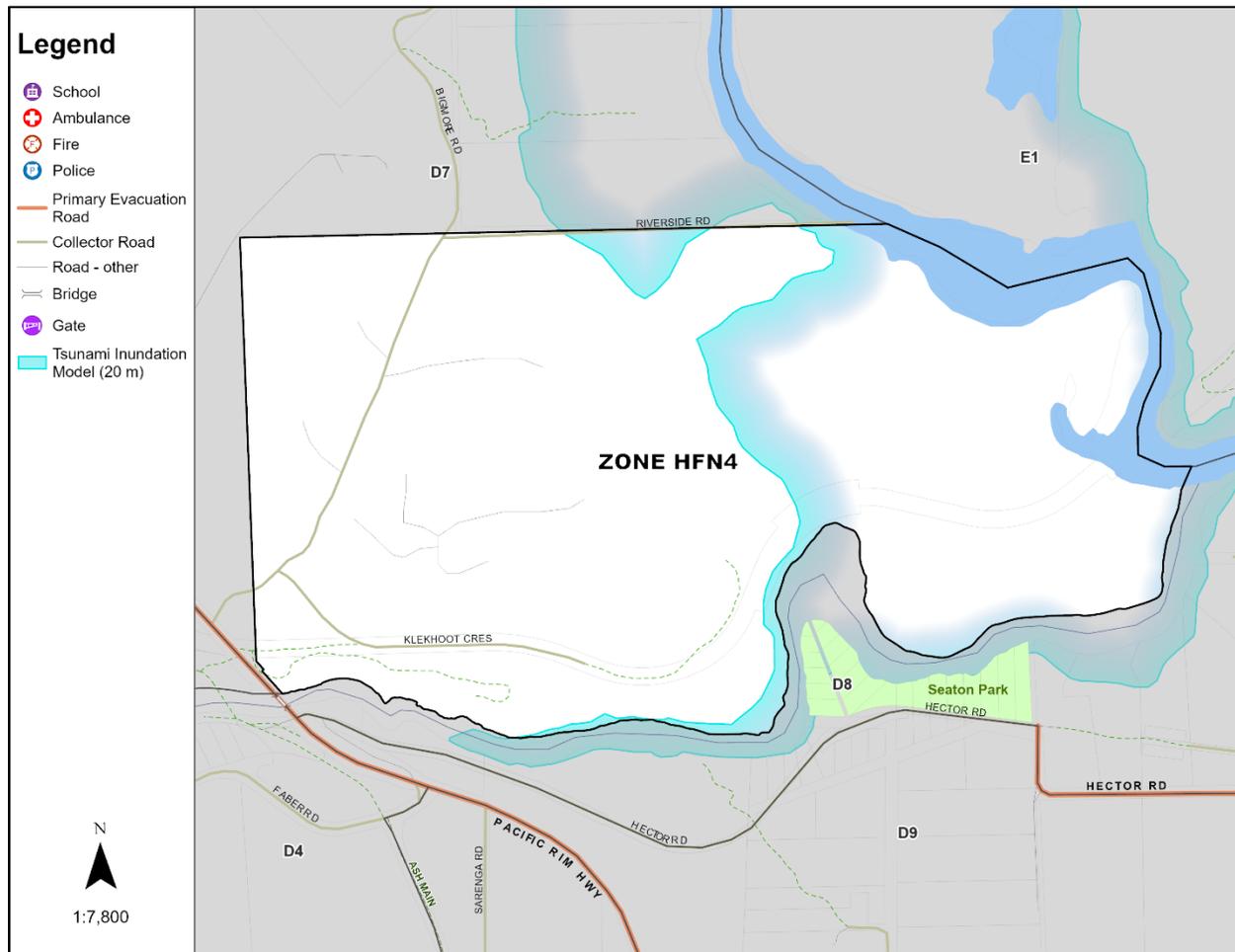


Figure: 5 Zone #HFN4 Map

### **PRIMARY USE**

This zone is primarily forested with limited residential areas off Klekhoot Cres.

### **PRIMARY & SECONDARY ARTERIAL ROADS**

**Primary Road:** Bigmore Rd

**Secondary Roads:** Klekhoot Cres and Riverside Rd.

---

## **MUSTER POINTS, INFRASTRUCTURE & EVACUATION DIRECTIONS**

Item	Description
Muster Points	<ul style="list-style-type: none"><li>N/A</li></ul>
Critical Infrastructure	<ul style="list-style-type: none"><li>Bigmore Rd</li><li>Klekhoot Cres</li><li>Potable water treatment plant</li></ul>
Evacuation Direction	<ul style="list-style-type: none"><li>South: Residents can head south via Bigmore Rd to Highway 4. They can then evacuate west or east along the valley depending on the final destination.</li></ul>
Potential Reception Centre	<ul style="list-style-type: none"><li>N/A</li></ul>

## **ESTIMATED TIME TO EVACUATE THIS ZONE IN HOURS:**

Item	Description
Estimated Population	15
Estimated Single Vehicle Travel Time Through Zone	1.5 min
Estimated Zone Evacuation Time	11.8 min

All times are approximate and for planning purposes only. They do not include the advance time required to develop and distribute information to the public. Evacuations are dynamic, and times are influenced by factors that may not be apparent during planning activities. The EOC should rely on the subject matter experts available during an evacuation for guidance.

## **KEY CONSIDERATIONS**

**Tsunami/Somass Watershed:** Tsunami and Somass Watershed modelling show the zone is susceptible to impacts from rising water levels. It primarily impacts the east part of the zone and areas bordering the Sprout River. Modelling does not show the water levels affecting the residential part of the zone.

**Dam Breach:** Elsie Lake dam breach modelling shows this zone is susceptible to impacts. Evacuation planning due to a dam breach should refer to Elsie Lake dam breach modelling for impact area.

**Bigmore Rd:** The road is a dead-end and ends outside the Hupačasath First Nation boundary and into the Electoral Area D. Due to this, the limited evacuees from the end of the road will have to cross through this zone. Consultation between local authorities is encouraged to minimize disruption.