





#### PURPOSE OF THIS INFORMATION SESSION:

#### To share the project details including:

- Location and Background Information
- Needs and Benefits
- Project Scope
- Traffic Stoppages and Construction Schedule

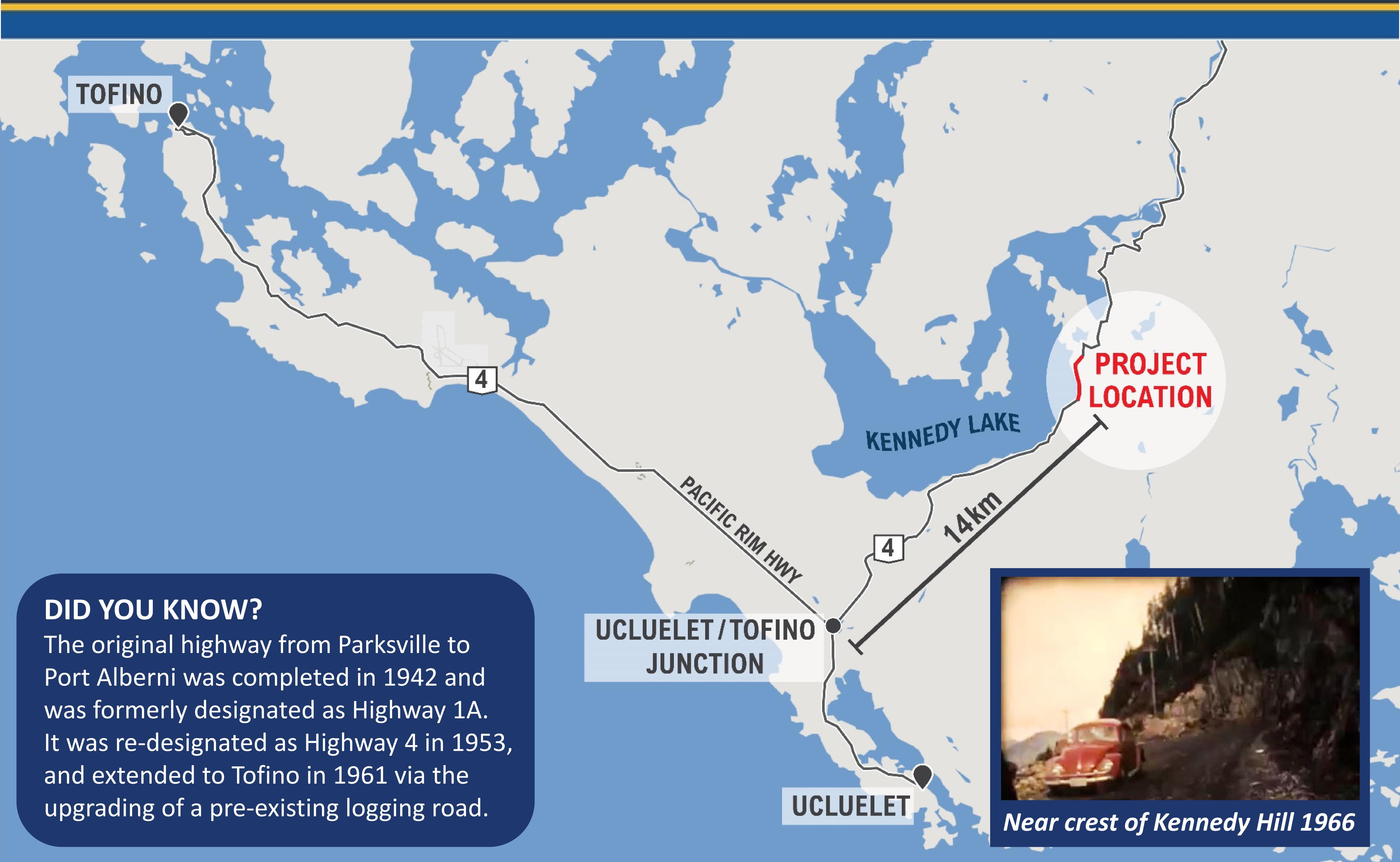
The Province and Canada are jointly investing \$30 Million (\$16.5M BC and \$13.5M Canada) to improve the safety and reliability of Highway 4 for local residents, tourists and commercial drivers.

#### Provide us with your feedback by:

- Completing a feedback form and leaving it with our team today
- Sending an email to <u>KennedyHill@gov.bc.ca</u>
- Visiting the project website at <u>www.gov.bc.ca/highway4kennedyhill</u>





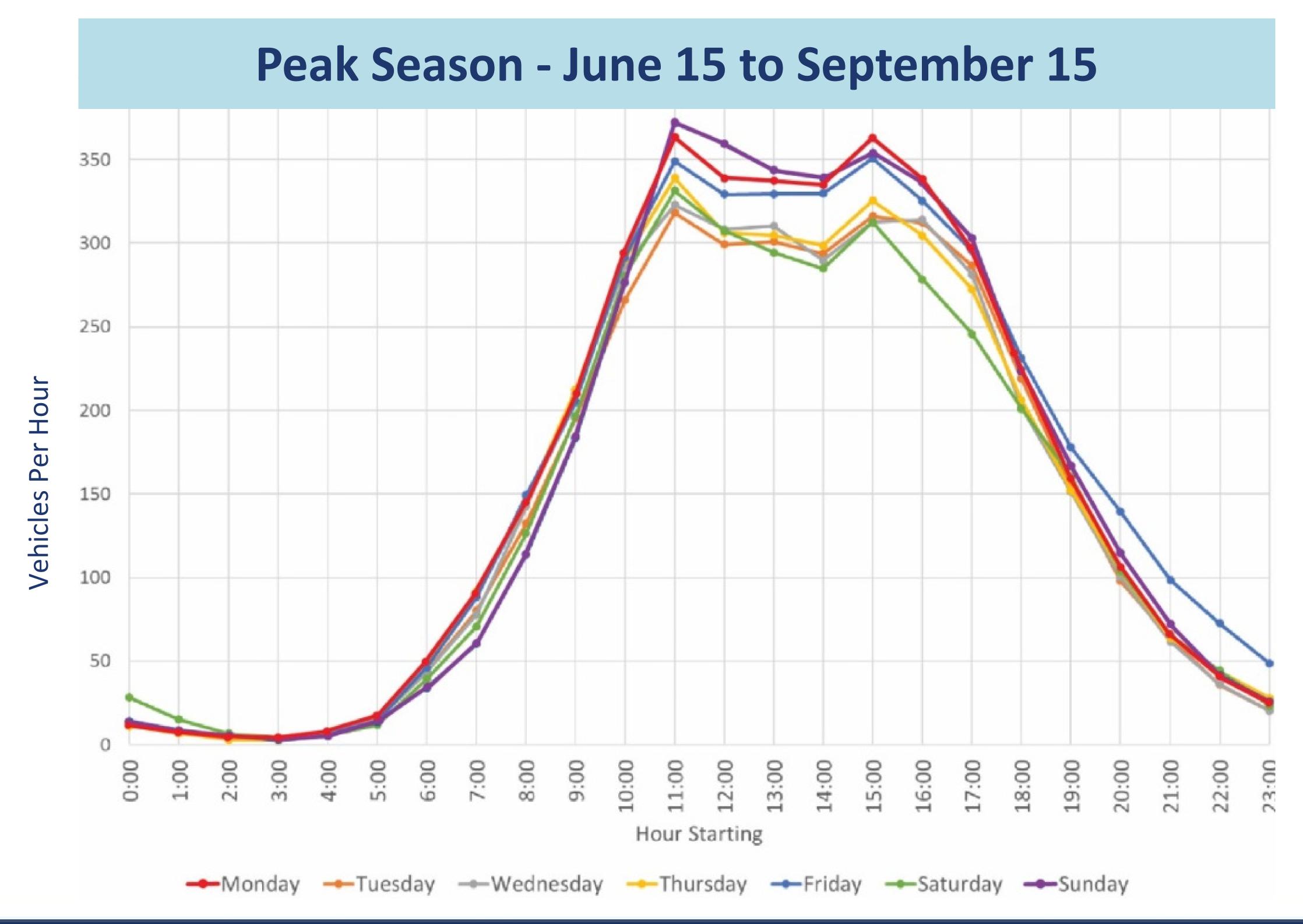


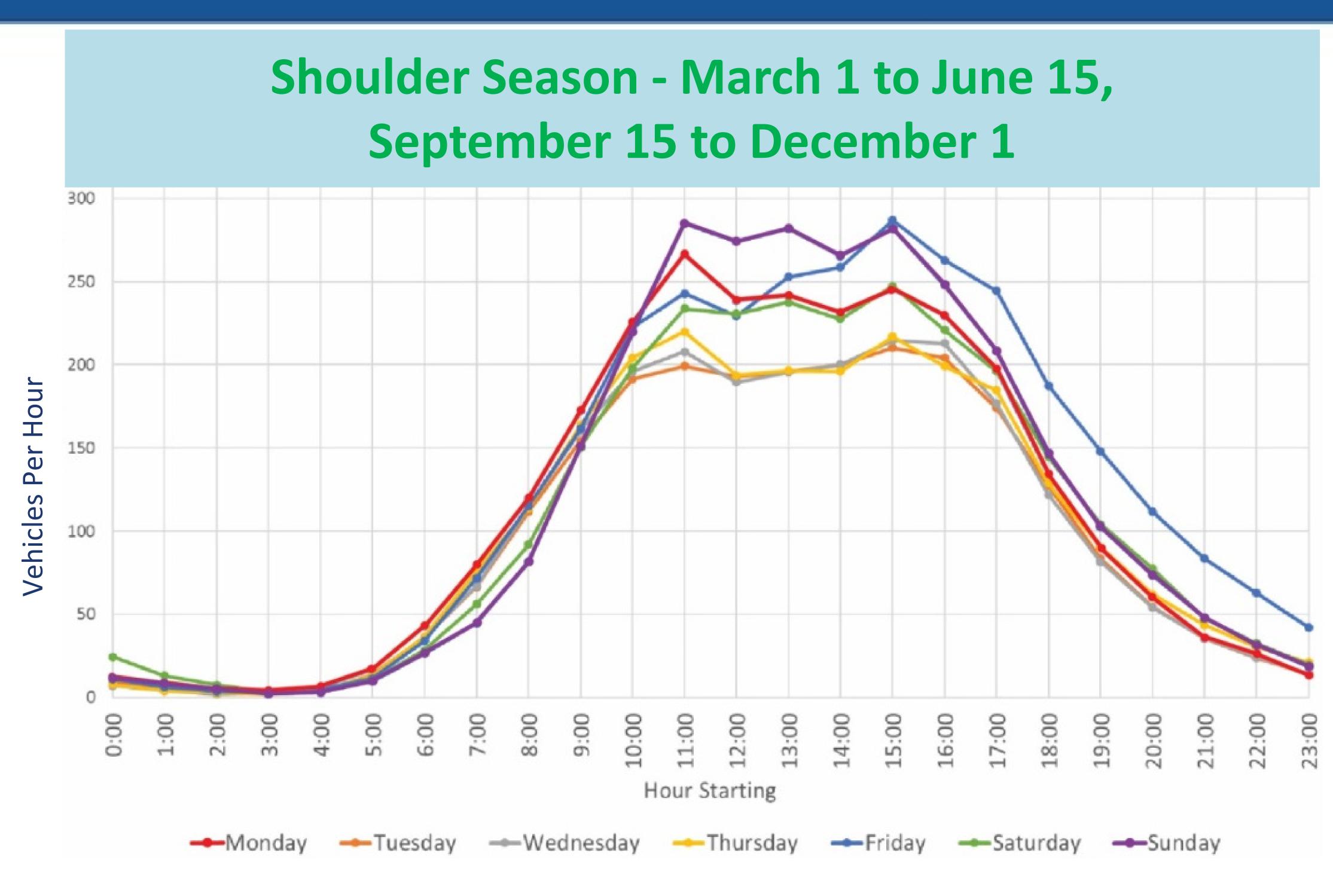
Project Location and Background Information

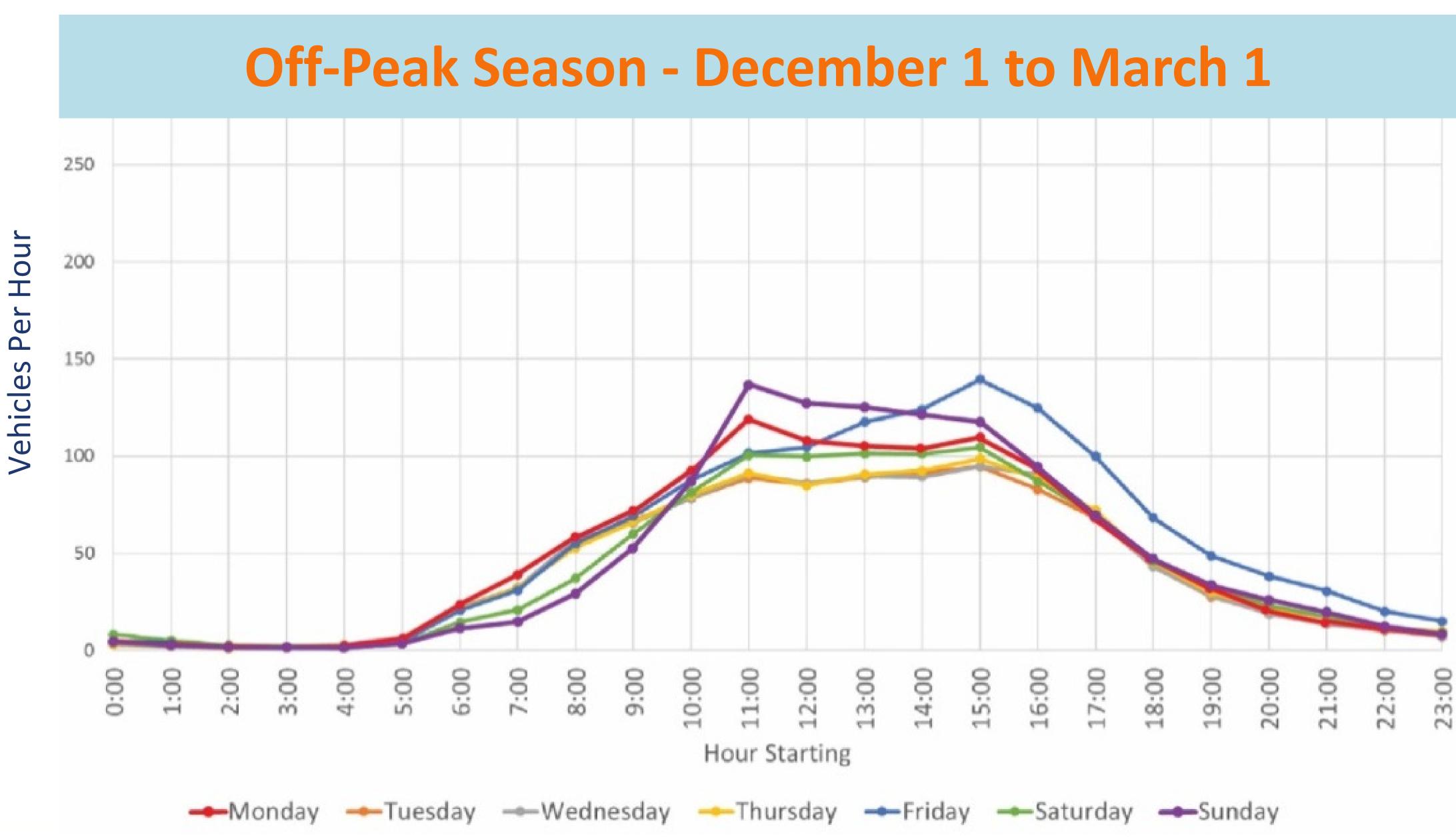


# DAILY TRAFFIC VOLUMES:

- Count station data from past three years
- Average annual daily traffic volume is 2200 vehicles per day (VPD)
- Summer average daily volume is 3700 VPD
- Volumes vary significantly by season





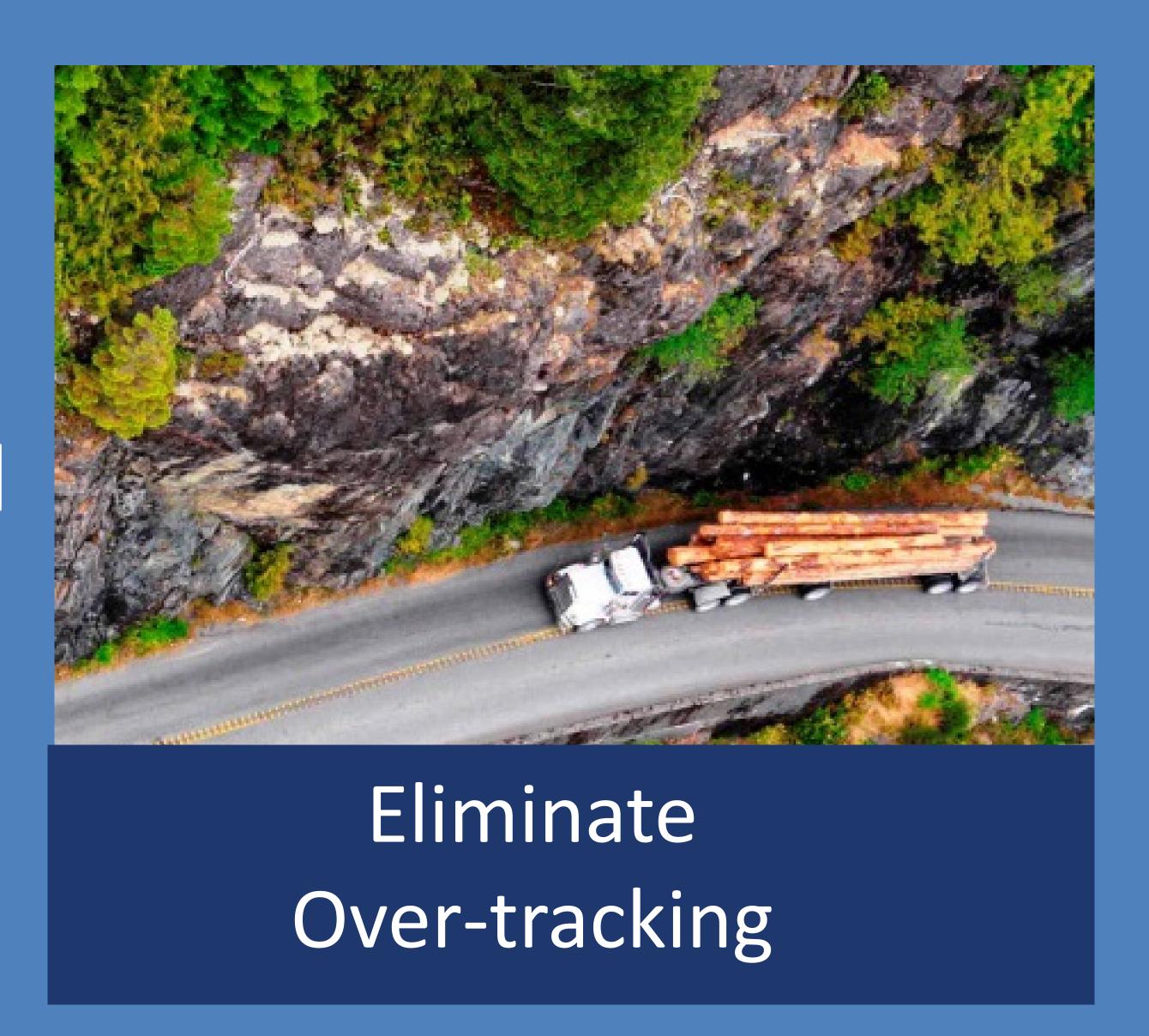


Project Needs and Benefits



# PROJECT NEEDS AND BENEFITS:

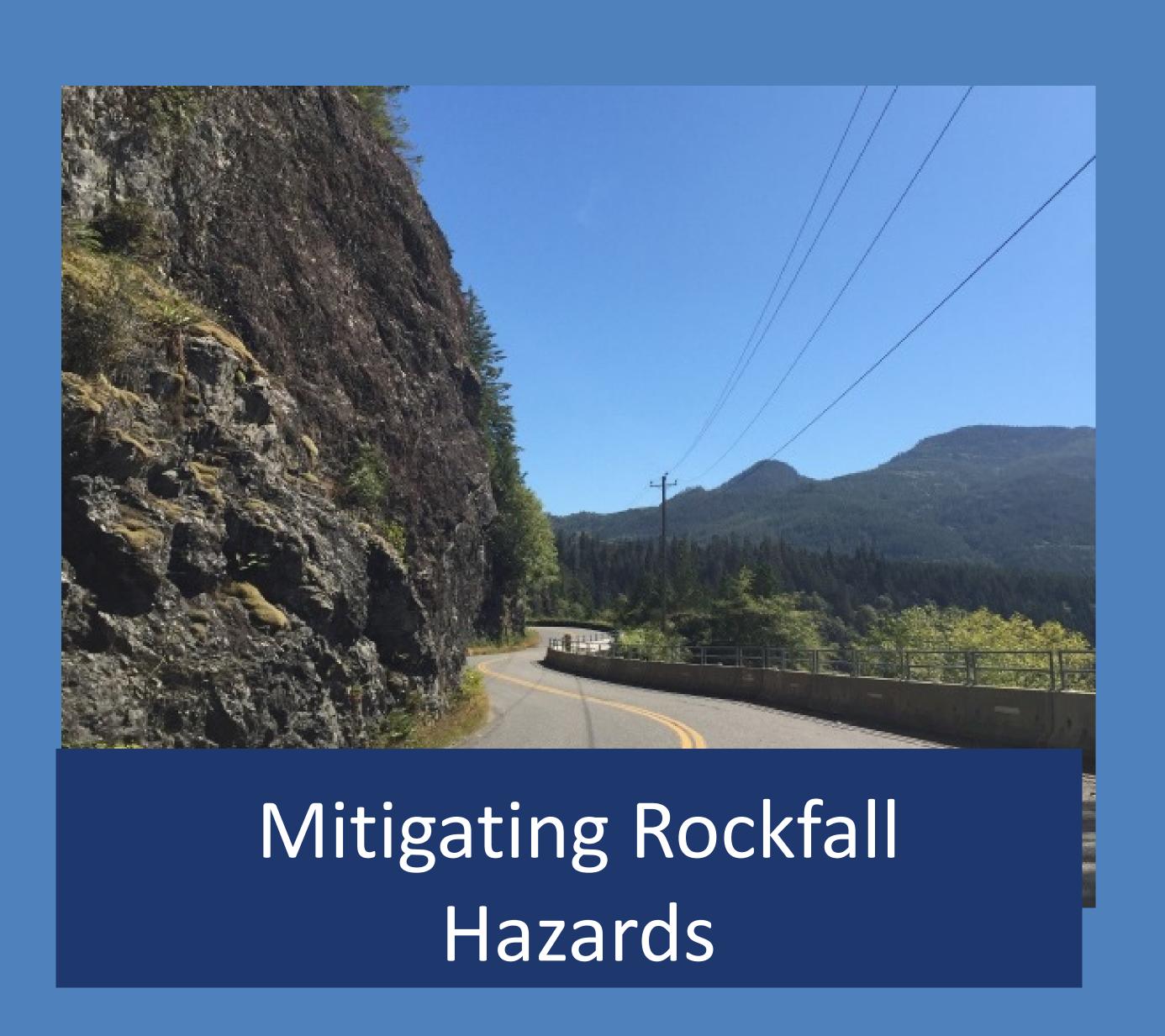
- The route is vital to regional tourism and economic development
- The project will improve safety and reliability











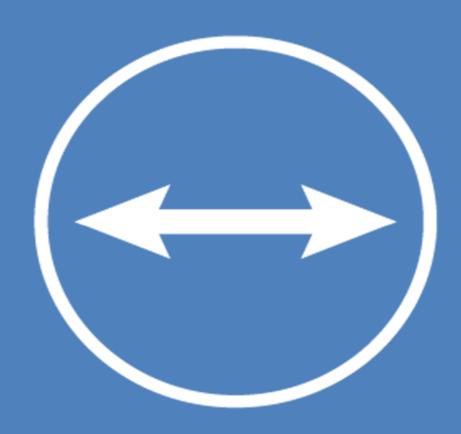


## SCOPE OF PROJECT

The length of the project is approximately 1.5 kilometres, and improvements include:



Widening the highway to accommodate two 3.6m lanes, 1.5m paved shoulders, and concrete roadside barrier between the lake and the highway.



Straightening of curvilinear alignment and improving the 30km/hr speed advisories to 60km/hr.



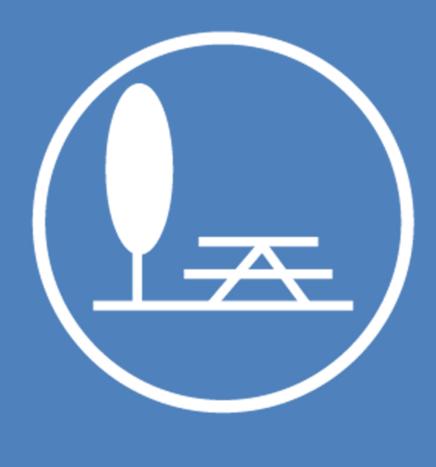
Flattening the 12% grade on the steep hill to 9% and achieve 4% grade or flatter elsewhere.



# SCOPE OF PROJECT



Eliminating the overhanging rock through extensive blasting and excavation, and mitigating rock fall hazards through slope stabilization, and a wide rock catchment area and drainage ditch.



Providing a new rest area facility and view point utilizing a portion of the old highway, including a new intersection accessible by car, RV, bus, and commercial vehicles.



Relocating high voltage Hydro Transmission poles along the length of the project.

Project Scope



# MAJOR EARTH MOVING

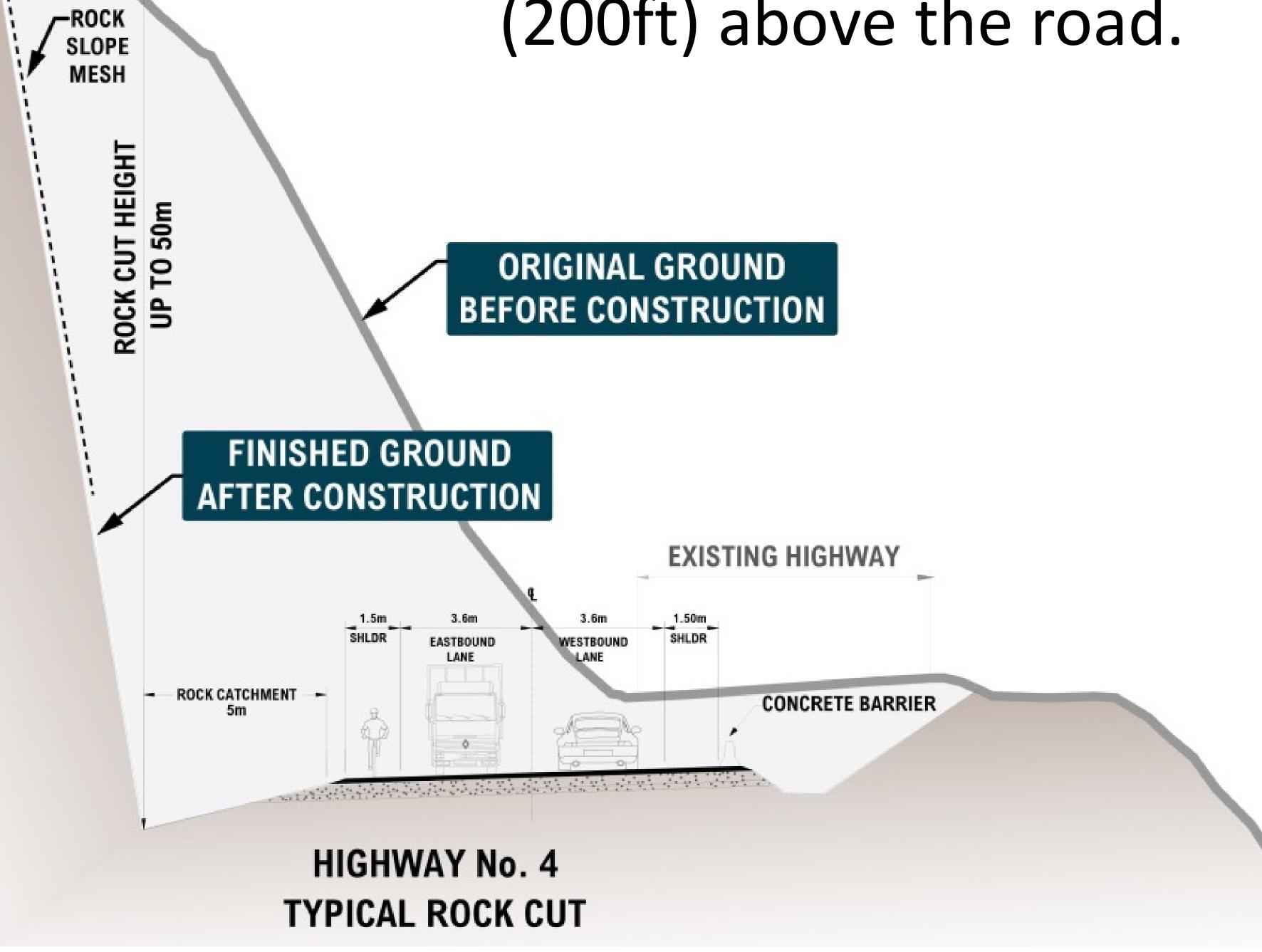


High Above Highway

- Project involves moving over 300,000m³ of earth (equivalent to 130 Olympic size swimming pools).
- Majority of earth to be moved is blasted bedrock.
- Night time rock blasting will occur in order to minimize the impact to highway users.
- All earth/rock will be used on site as embankment fill to avoid offsite trucking and to minimize costs.
- 500m of rock bolts and over 13,000m<sup>2</sup> of slope meshing will be installed to heights of up to 60m (200ft) above the road.

#### Compare Cut Heights

Malahat – 20m Nanaimo Parkway – 30m Sea to Sky – 60m Kennedy Hill – 60m



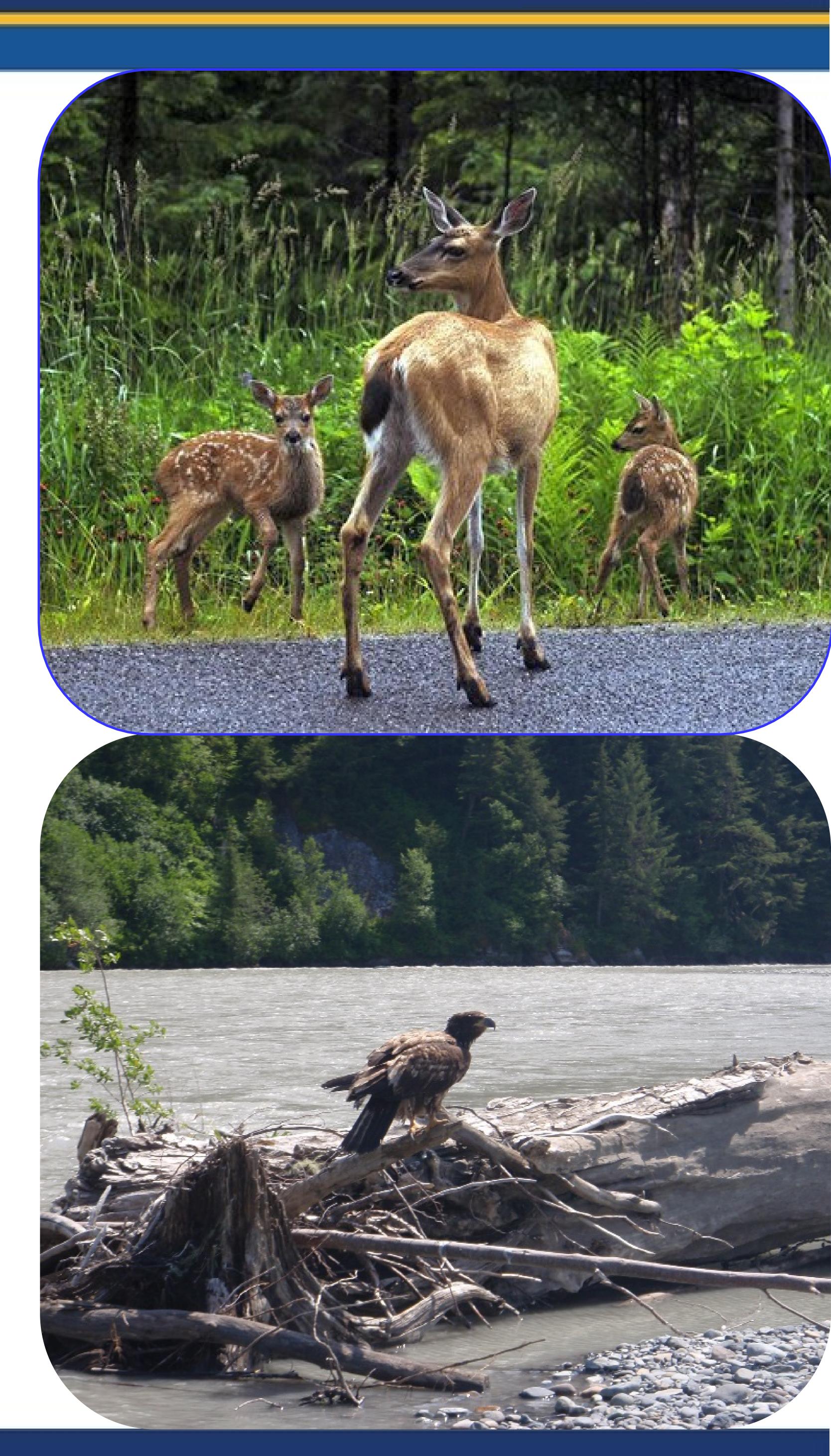


Project Scope



## ENVIRONMENTAL AND ARCHAEOLOGICAL:

- A detailed environmental assessment has determined anticipated impacts will be minimal.
- A site specific construction environmental management plan following best management practices for protection of the environment will be created and be managed by an onsite environmental monitor throughout construction.
- A buffer will be maintained along the lake shoreline in order to retain existing vegetation, and over 1400 plantings are proposed to help re-establish vegetation.
- An archaeological overview and impact assessment did not identify areas of archaeological significance within the site.
- The project lies within the traditional territory of the Tla-o-qui-aht First Nations.





#### 3D VIDEO RENDERING OF THE PROJECT:

- The adjacent video is on repeat, so keep watching to see any details over again.
- The locations of the relocated Hydro poles are approximate only.
- The new alignment leaves the old alignment between the rest area and the northeastern project limits. The old grade can be seen upslope of the new highway.
- Tall trees can be seen mid-slope on the lake side fill zones. These represent a planting terrace that will accommodate stable soils for planted vegetation to grow.
- Uphill of the rest area parking lot, the switchback trail to the view point lookout can be seen. This lookout is on the existing highway alignment at the summit of the hill.

Planned Traffic Closures and Construction Schedule



#### TRAFFIC MANAGEMENT STRATEGIES:

A traffic management strategy is required to construct the new highway, balancing traffic flow and worker and public safety.

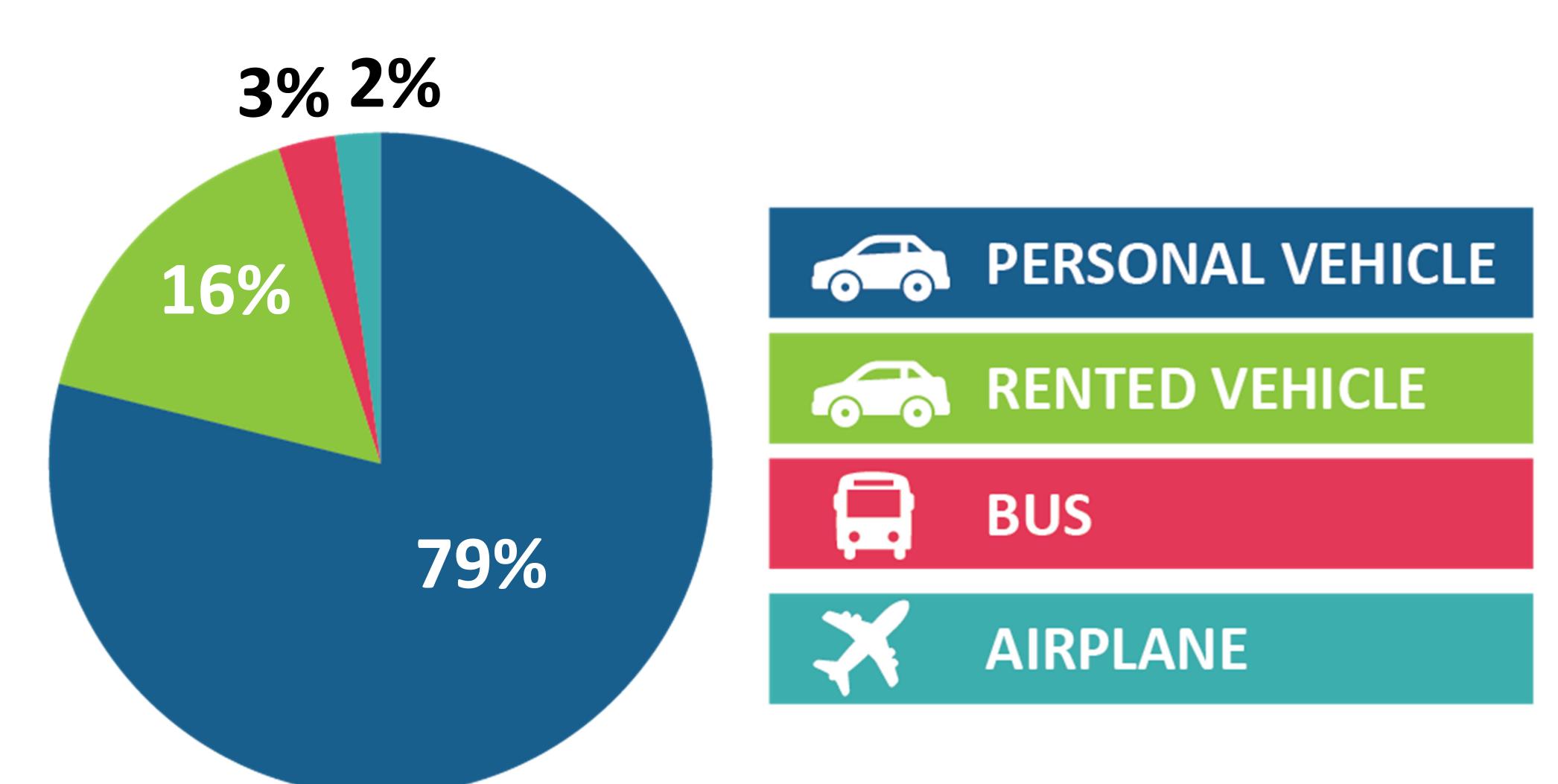
#### Constructability Considerations:

- Significant rock blasting and hauling
- Construction staging to minimize stoppages
- Need to maintain one travel lane during peak traffic periods
- Emergency vehicle access through the site

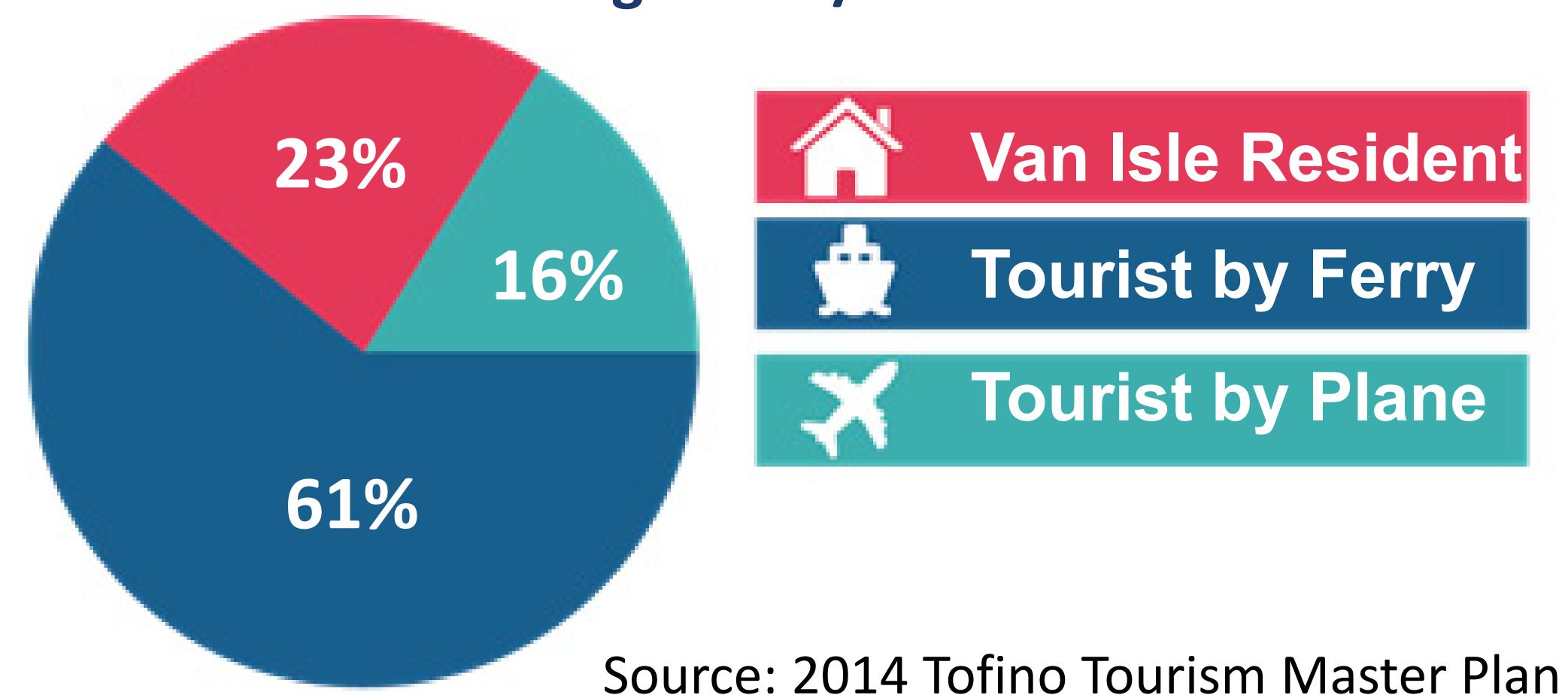
#### Tourism and Economic Considerations:

- Economic need to keep highway open
- Tourism and seasonal traffic influxes
- Ferry schedules
- Commercial vehicle shipping and deliveries for local restaurants and fish plants

#### Tourist Transportation to and from Tofino/Ucluelet



# Tourist Transportation to Vancouver Island before visiting Tofino/Ucluelet



Planned Traffic Closures and Construction Schedule



# TRAFFIC MANAGEMENT STRATEGIES:

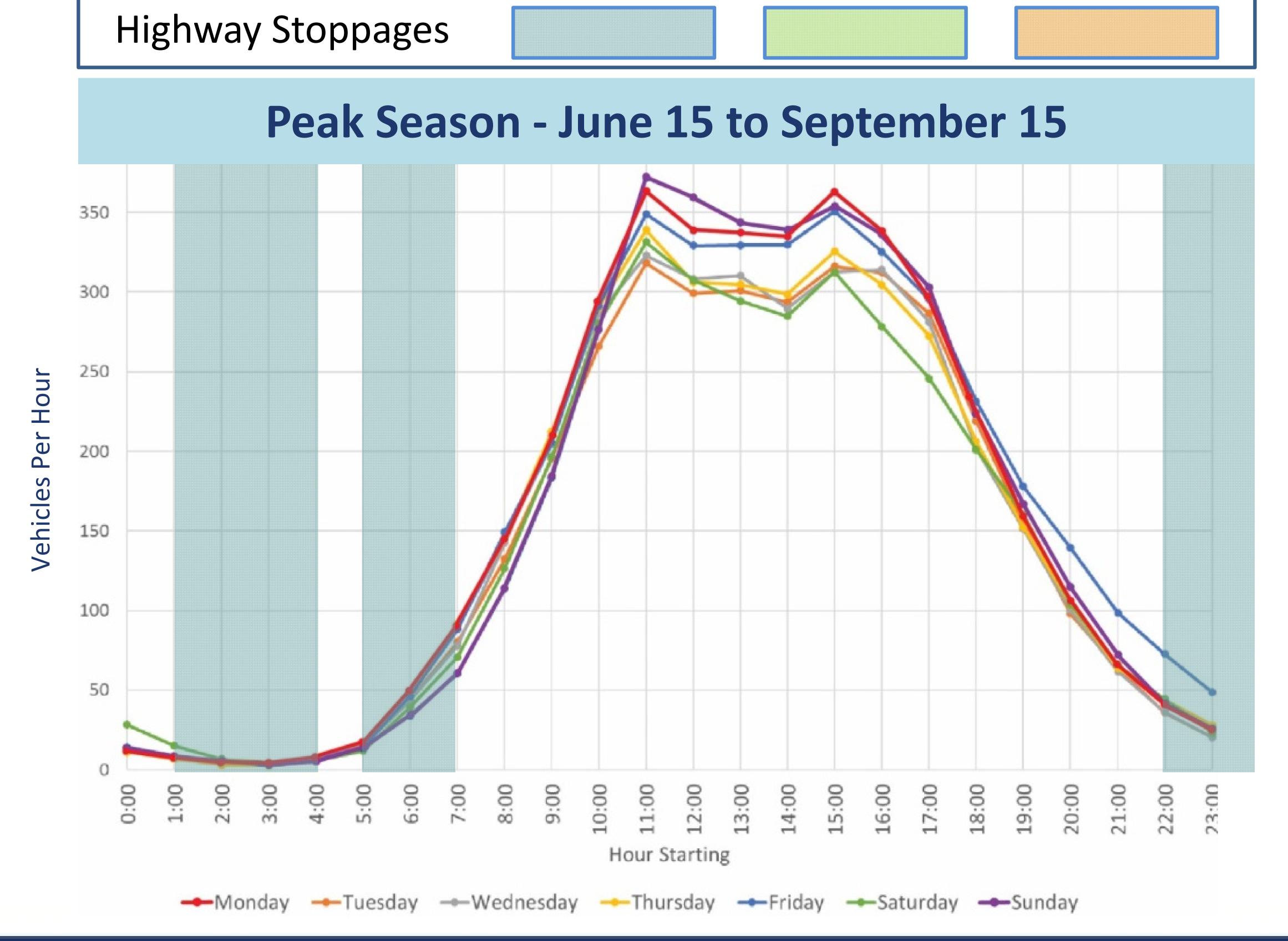
- Majority of the rock blasting and traffic stoppages are planned during the night to minimize traffic disruptions, but some traffic stoppages are required for "daylight critical" activities like rock scaling.
- No traffic stoppages are permitted during long weekends, including the day before or after.
- Single Lane Alternating Traffic (SLAT) may result in up to 30min delays during peak traffic periods.

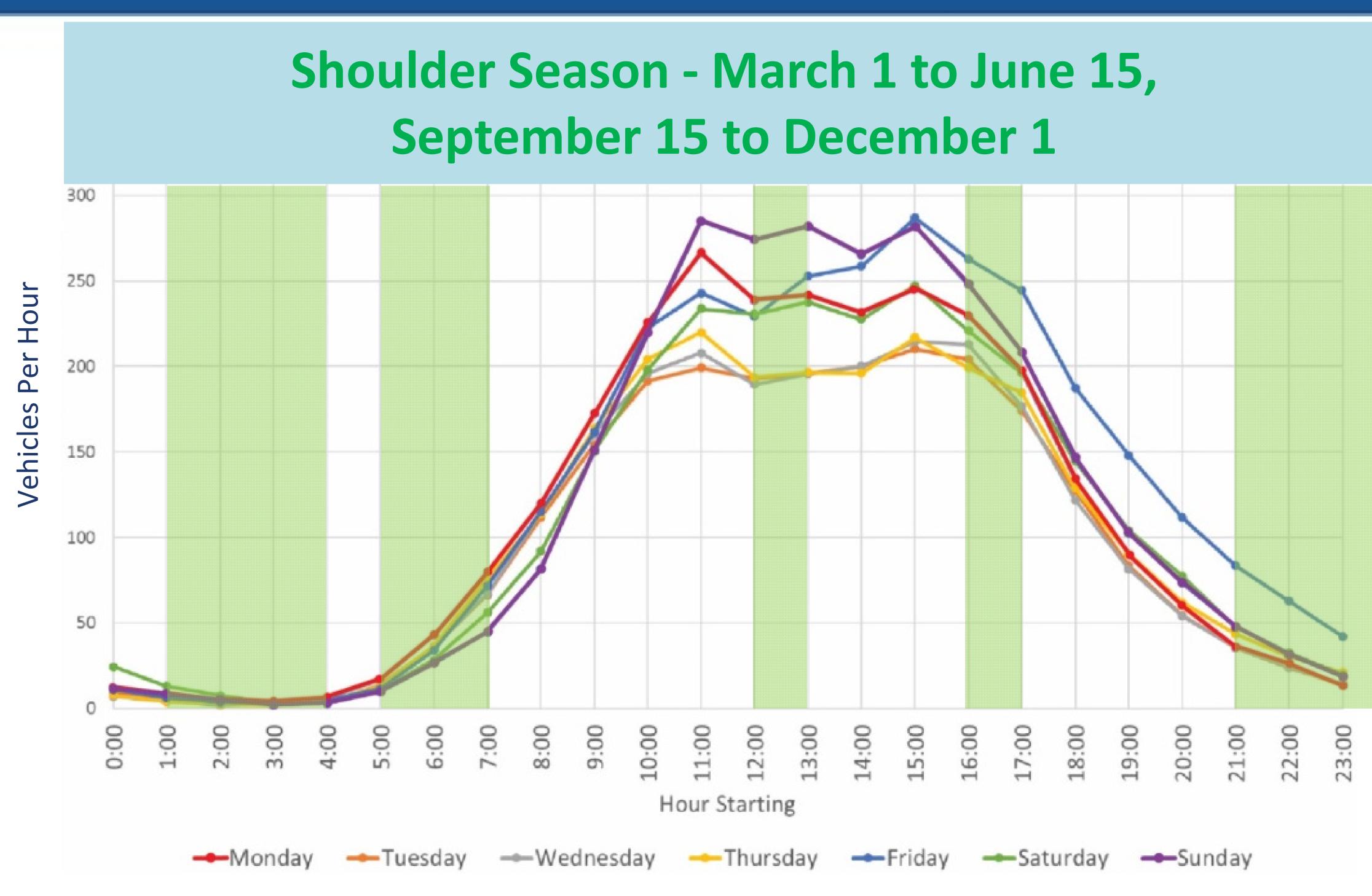
	Seasons	Peak Season	Shoulder Season	Off-Peak Season
	TIME	June 15 to September 15	March 1 to June 15 September 15 to December 1	December 1 to March 1
Ì	Midnight -1am	Open (Single Lane Alternating)	Open (Single Lane Alternating)	Open (Single Lane Alternating)
	1am - 2am	3 Hour Stoppage	3 Hour Stoppage	3 Hour Stoppage
	2am - 3am			
	3am - 4am			
	4am - 5am	Open (Single Lane Alternating)	Open (Single Lane Alternating)	Open (Single Lane Alternating)
	5am - 6am	2 Hour Stoppage	2 Hour Stoppage	3 Hour Stoppage
	6am - 7am	2 Flodi Otoppago	2 Hour Otoppage	
	7am - 8am	am - 9am am - 10am am - 11am am - Noon oon - 1pm pm - 2pm pm - 3pm Open (Single Lane Alternating)	Open (Single Lane Alternating)	
	8am - 9am			Open (Single Lane Alternating)
9	9am - 10am			
	10am - 11am			
	11am - Noon			
	Noon - 1pm		1 Hour Stoppage	1 Hour Stoppage
	1pm - 2pm		Open (Single Lane Alternating)	Open (Single Lane Alternating)
	2pm - 3pm			
	3pm - 4pm			
	4pm - 5pm		1 Hour Stoppage	1 Hour Stoppage
	5pm - 6pm		Open (Single Lane Alternating)	Open (Single Lane Alternating)
	6pm - 7pm			
	7pm - 8pm			
	8pm - 9pm			
	9pm - 10pm	2 Hour Stoppage	3 Hour Stoppage	3 Hour Stoppage
	10pm - 11pm			
	11pm - Midnight			

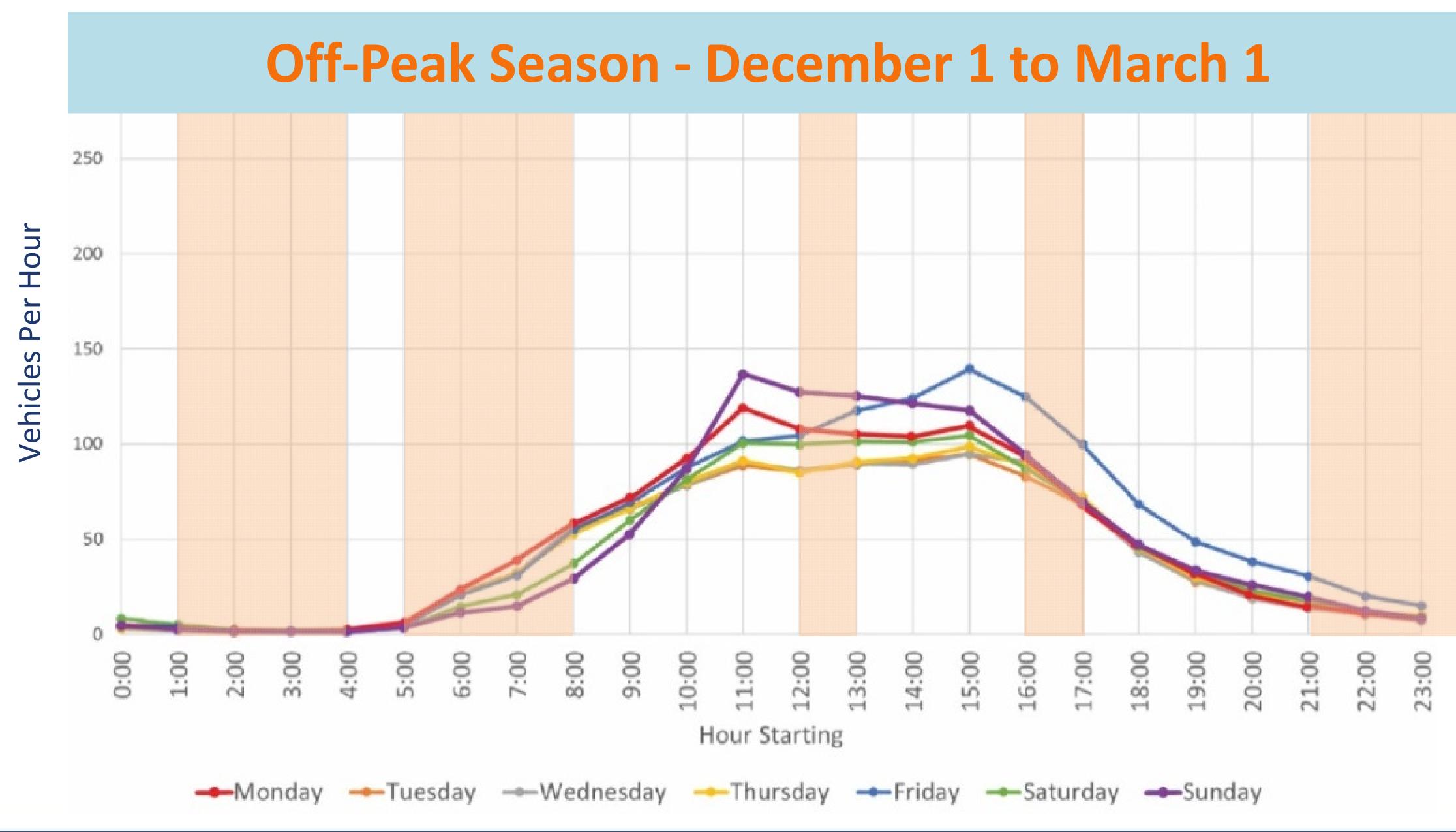




- Nightly traffic stoppages permitted year round
- Two midday stoppages allowed during shoulder and off-peak seasons, and seasonal SLAT permitted as follows:
  - Peak: 7am 10pm
  - Shoulder: 7am 9pm
  - Off-Peak: 8am 9pm





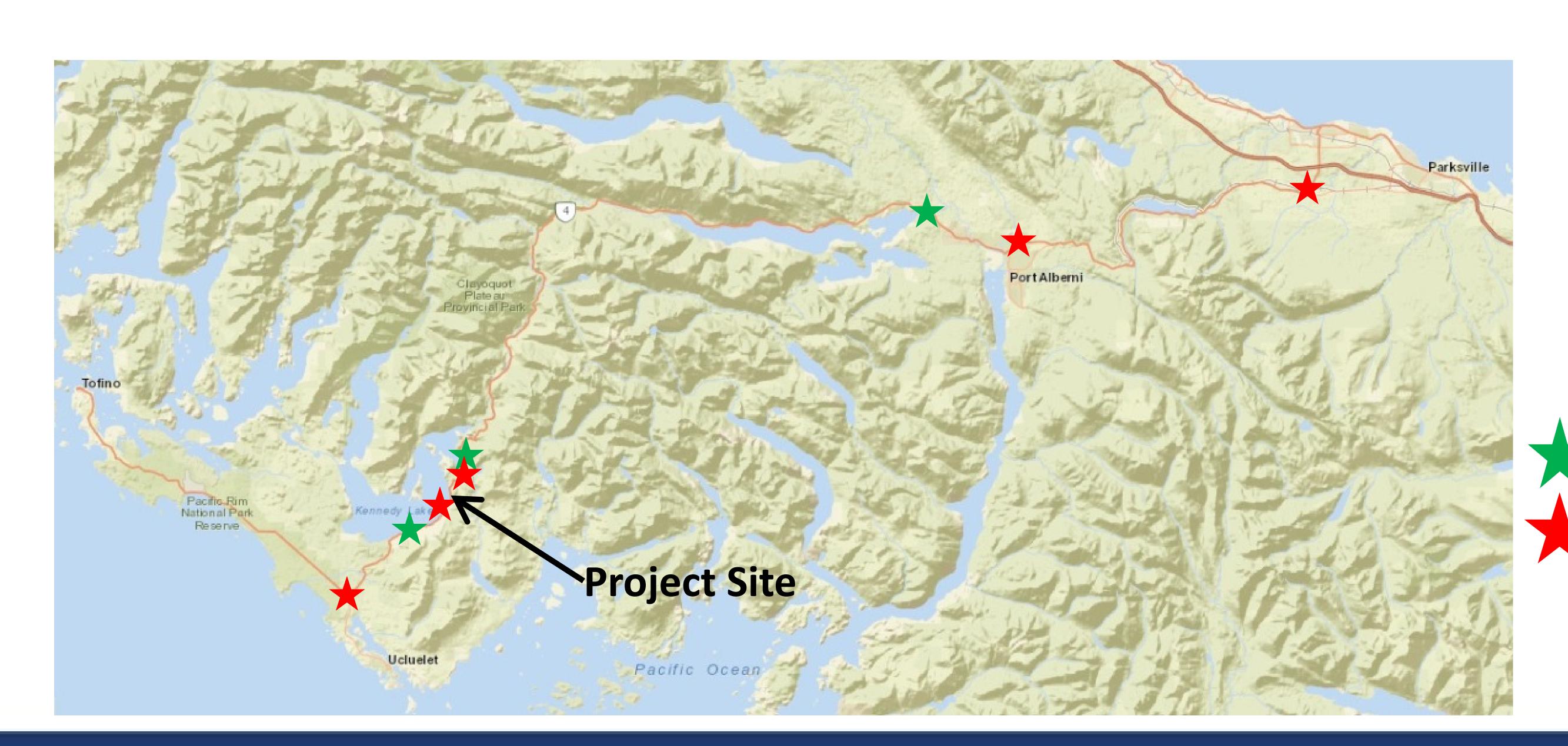


Traveller Information During Construction:



#### Updated travel information will be available via the following:

- Toll free hot line travel advisory messaging updated daily
- Drive BC (<u>www.drivebc.ca</u>)
- Project Website (<u>www.bc.ca/highway4kennedyhill</u>)
- Twitter (@TranBC, @DriveBC) and Facebook (TranBC)
- Emailed updates to business and community stakeholders
- Traffic Advisory Releases given to media and radio
- Changeable Message Signs (CMS) along corridor









Planned Traffic Closures and Construction Schedule



#### NEXT STEPS:

- Award the construction contract in February 2018
- Start construction in March 2018
- Finish construction by the Summer of 2020



#### THANK YOU FOR COMING!

Please remember to provide us with your feedback by:

- Completing a feedback form and leaving it with our team today
- O Sending an email to <a href="mailto:KennedyHill@gov.bc.ca">KennedyHill@gov.bc.ca</a>
- Visiting the project website at <u>www.gov.bc.ca/highway4kennedyhill</u>
- If you would like to provide your comments after the meeting, please complete the comment form and return via email before February 4, 2018