

TI Corp Project/Site Hazard Identification Form

Project name: Hwy 99 – FRTP Pre-load	Project number: Click here to enter text.
Location: SB Hwy 99 between Blundell and Steveston OP	
Disposition: Surcharge placement	
Initiated by: Tracy Wynnyk	Date: February 7, 2024

Hazard	Comments
Environmental	
Terrain <ul style="list-style-type: none"> <input type="checkbox"/> Rock Fall <input checked="" type="checkbox"/> Soils <input type="checkbox"/> Avalanche 	<p>RoW is subject to soft soils which may become unstable and the hazard may increase during wet periods. Ground can be quite slippery.</p>
Hydrology <ul style="list-style-type: none"> <input type="checkbox"/> Creeks/streams/river/lake <input checked="" type="checkbox"/> Ground water <input checked="" type="checkbox"/> Run off 	<p>Deep ditches and settlement ponds to the west of the RoW. Water of unknown depth.</p>
Location <ul style="list-style-type: none"> <input type="checkbox"/> Isolation <input checked="" type="checkbox"/> Weather Conditions <input type="checkbox"/> Temperature <input checked="" type="checkbox"/> Lighting <input type="checkbox"/> Contamination <input checked="" type="checkbox"/> Wildlife <input checked="" type="checkbox"/> Vegetation 	<p>Rainy and wet conditions and spray from vehicles - can impact stability and visibility. Wind can display items on site and traffic control signage.</p> <p>Night work and low light conditions can impact visibility of drivers and workers along the corridor.</p> <p>Waterfowl is plentiful in the ditch areas and coyotes are known to be in the area. Consider avoiding attractants.</p> <p>Blackberry bushes are in the right of way and can be an abrasion and trip fall hazard. Stinging nettle is also indicative of the area.</p>
Communications <ul style="list-style-type: none"> <input type="checkbox"/> In/Out of site <input type="checkbox"/> On site 	<p>NA</p>
Surroundings <ul style="list-style-type: none"> <input type="checkbox"/> Access/Egress constraints 	<p>Access/egress can result in unanticipated movements by construction equipment and traffic and may be unexpected by drivers passing at various speeds. Ensure this is addressed in TMP.</p>

Hazard	Comments
Environmental	
Utilities/Agencies <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Phone systems <input checked="" type="checkbox"/> Power lines <input type="checkbox"/> Fibre Optic Lines <input checked="" type="checkbox"/> Gas lines/Gas pipelines <input checked="" type="checkbox"/> Local Gov't Services (water, sewer, etc) <input type="checkbox"/> Rail (CN, CPR, BNSF) 	<p>Power lines and phone systems cross Hwy 99 just south of Blundell.</p> <p>MoT electrical is throughout the RoW – powers lights, cameras, overhead message board and other assets.</p> <p>High pressure gas line crosses Hwy 99 just south of Blundell. MoT culverts/draingage run under the Hwy.</p> <p>Richmond water systems and drainage systems are in the RoW.</p> <p>Consider use and storage of equipment in proximity of utilities and ensure a BC 1 Call prior to work commencing.</p>
Work Factors	
Work factors <ul style="list-style-type: none"> <input type="checkbox"/> Confined space <input type="checkbox"/> Blasting <input checked="" type="checkbox"/> Traffic control <input checked="" type="checkbox"/> Traffic/pedestrian concerns <input checked="" type="checkbox"/> Removal of barriers <input checked="" type="checkbox"/> Overlapping/adjacent site <input checked="" type="checkbox"/> Maintenance Contractor / District Activities 	<p>Entering and exiting the site requires consideration and appropriate traffic management.</p> <p>Traffic speeds vary based on congestion and the counter flow. Congestion can sometimes increase speeds on the HOV lane due to vehicles exiting at Steveston Hwy.</p> <p>Steveston Hwy project is on the south side of the work however their advance warning signage is north of the Steveston OP. Coordination with FCCL will be required to ensure project traffic management efforts are not impacted.</p> <p>Significant debris in the RoW which may be from insecure loads passing on the Hwy.</p> <p>Any areas where barriers are removed presents and exposure to public traffic and will require addressing to ensure driver safety.</p> <p>Confirm any additional potential work overlaps with the other parties such as the City of Richmond and Mainroad.</p>
Excavation <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Over 4' (1.2m) - trenches <input type="checkbox"/> Over 20' (6.1m) 	<p>Excavations are anticipated to be mainly stripping however any over 4' can present a fall/entrapment hazard if not properly sloped, shored or benched.</p>
Fall protection <ul style="list-style-type: none"> <input type="checkbox"/> Over 10' (3.0m) <input type="checkbox"/> Over 25' (7.6m) 	<p>NA</p>
Land clearing <ul style="list-style-type: none"> <input type="checkbox"/> Tree removal/brushing/grubbing <input checked="" type="checkbox"/> Danger trees 	<p>Danger trees may exist on the west side of the ditch and these should be monitored for worker safety and assessed for removal. Property ownership needs to be confirmed prior to removal of any trees.</p>
Pits – Source _____ <ul style="list-style-type: none"> <input type="checkbox"/> Sloping <input type="checkbox"/> Recreation <input type="checkbox"/> Recent pit activities 	<p>NA</p>

Hazard	Comments
People/Agency Issues	
Public/community <input type="checkbox"/> Local Sensitivities <input checked="" type="checkbox"/> School or transit stops <input type="checkbox"/> Emergency facilities <input type="checkbox"/> Important facilities/events <input type="checkbox"/> Homeless camp potential <input checked="" type="checkbox"/> Sharp/infection litter potential	<p>Private schools along No. 5 Rd back onto work area. Consider items/conditions which may 'attract' children.</p> <p>Area has been known to contain sharps and infectious litter (medical waste). Suspected this is from inadequate storage of material during transport.</p>
Equipment/Materials	
Mobile Equipment <input checked="" type="checkbox"/> Roto Lights <input checked="" type="checkbox"/> Back up alarms <input checked="" type="checkbox"/> Good working condition <input checked="" type="checkbox"/> Free from leaks <input checked="" type="checkbox"/> Guarding & lockout	<p>All equipment and vehicles require roto lights, back up alarms and need to be in good working condition and free from leaks. Guards need to be in place and lock out procedures used for any servicing or securing of equipment.</p>
Materials <input checked="" type="checkbox"/> Storage/containment	<p>This is an environmentally sensitive area and any materials stored on site require containment 1.5 times the volume of the material being stored.</p>
Other <input checked="" type="checkbox"/> Old MoT infrastructure <input type="checkbox"/> _____	<p>Old metal and concrete bases are in the RoW. May present a tripping hazard or puncture tires. Review the area and assess removal options. Any cutting of concrete may present a silica hazard.</p>

Minimum requirements for all projects

<p>Site Specific Safety Plan must include:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Site hazards <input checked="" type="checkbox"/> Site map <input checked="" type="checkbox"/> Site rules <input checked="" type="checkbox"/> Safety coordinator name and contact <input checked="" type="checkbox"/> Site and emergency contacts <input checked="" type="checkbox"/> First aid attendant, location and communications <input checked="" type="checkbox"/> Route and directions to closest medical aid <input checked="" type="checkbox"/> Site evacuation procedures and muster stations (for all workers, not just medical emergencies) <input checked="" type="checkbox"/> PPE required on site <input checked="" type="checkbox"/> Site orientation process <input type="checkbox"/> Other specific to project _____ <input type="checkbox"/> Other specific to project _____ 	<p>All of these elements are required in a site safety plan.</p> <p>Site map should include site location, lat and long, identify first aid post, marshalling area and access/egress directions. This should be in the plan and posted with the name of the first aid attendant, site rules, etc.</p> <p>Site rules should include such items as fitness for duty, general safety requirements, incident reporting requirements, etc.</p> <p>Emergency contacts should include personnel responsible for the site and emergency services, other agency and Ministry personnel.</p> <p>First aid attendant must be named, site of first aid post needs to be identified and the means for contacting the attendant must be listed.</p> <p>The location, route and directions to medical aid must be provided.</p> <p>Site evacuation procedures and muster stations must be defined.</p> <p>PPE requirements for the site should be included so we can communicate the requirements to personnel prior to arrival.</p> <p>A process for orientation and site visits identifies how workers and visitors to the site will be accommodated on site.</p>
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