

Preparation for Inspection

PREPARATION FOR INSPECTION AND INSPECTION SAFETY



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Class B Bridge Inspection
Course



Preparation for Inspection

Inspection Safety

- Occupational Health & Safety Act
 - high rigging
 - scaffold & swing stages
 - crane safety and rigging
 - confined spaces
 - working over water
 - working alone



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Inspection Safety (Continued)

- General Safety Issues
 - use proper equipment
 - park in a safe location
 - avoid unnecessary risk
 - assume all electrical is live
 - do not wear chest waders in fast moving water
 - use caution on ice
 - do not enter confined spaces
 - un-even ground
 - slippery culverts
 - fast flowing water
 - 3-point contact on bridgerails
 - inspect facing traffic – be alert
 - Working alone. Use check-in procedure – test it!!



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Inspection Safety (Continued)

- Traffic Safety
 - if possible schedule during low traffic flow
 - inform road authority
 - park vehicles well off roadway
 - wear high visibility vests
 - inspect facing traffic
 - be efficient and follow a routine – don't cross back and forth in traffic un-necessarily
 - be alert – be safe
 - use flag persons and signage if necessary-Level 2



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Personal Safety

- Personal Equipment
 - hard hat
 - proper foot wear (non-slip soles)
 - hip waders
 - eye protection
 - warm clothing
 - extra clothing
 - rain gear
 - 1st aid kit
 - bug spray
 - bear spray
 - snake bite kit
 - safety harness – Level 2
 - life jackets – Level 2
 - cell phone, gps



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Basic Tools for Inspection

- BIM Manual, Reference Manual
- Clip board and extra pencils
- Camera
- Long tape & steel weight
- Pocket tape
- Chipping hammer
- Binoculars
- Crack gauge
- Angle finder
- Flashlight and headlamp c/w extra batteries
- Marking crayons



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Basic Tools for Inspection

- Surveyor hand level
- Regular hand level
- Wire brush
- Plumb bob
- String line
- Measuring pole or electronic measuring device
- Personal equipment
- Shovel



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Inspection Equipment

- Inspection Equipment – Level 2
 - portable ladders
 - base 1/4 of length from wall
 - do not work on top two rungs
 - base firm and non-slip
 - extension ladders proper overlap
 - scaffold
 - anchor properly
 - design = 4X load
 - inspect daily
 - safety harness – Level 2
 - adjust to fit
 - attach to fixed anchor
 - check prior to use




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- BIM Inspection Forms
 - Order from BIS
 - Carry blank forms
 - Review previous inspections
- Bridge File Maps or AT Maps
 - shows bridge locations
 - GPS co-ordinates
 - plan route
 - set-up designated check-in person or system – test it!
- Bridge Inventory Information
 - use to confirm bridge characteristics
 - Inspection requirements
 - check bridge file number
 - Update inventory during inspection




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Whirling Disease

- Whirling disease is caused by a microscopic parasite of salmonid fish.
- This disease is not harmful to humans or other mammals but can have significant effects on some fish populations. It can be transmitted from infected locations to other water bodies:
 - through equipment used for swimming, paddling, boating, water pumping, and fishing
 - The movement of fish, mud and water can potentially spread whirling disease.
- Basic Preventative Practices as outline by Alberta Environment and Parks (AEP)
 - Clean
 - Drain
 - Dry

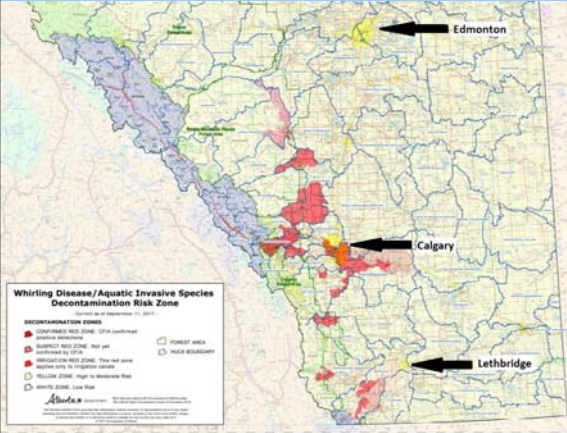


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Whirling Disease




Whirling Disease/Aquatic Invasive Species Decontamination Risk Zone
Updated as of September 21, 2017


DECONTAMINATION ZONES

- CONTAMINATED RISK ZONE (CRZ) confirmed aquatic invasive species
- HIGH RISK ZONE (HRZ) not yet confirmed by CPIC
- MODERATE RISK ZONE (MRZ) may not contain aquatic life or riparian corridor
- YELLOW ZONE (YZ) high or moderate risk
- WHITE ZONE (WZ) low risk

Alberta Transportation





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Whirling Disease





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Whirling Disease

- Decontamination Protocols as they apply to Bridge Inspection:
 - Different levels of decontamination required depending on what zone you are working in.

WHITE ZONE PROTOCOLS	YELLOW ZONE PROTOCOLS	RED ZONE PROTOCOLS
Level 1: Streamside Clean, Drain, Dry	Level 1: Streamside Clean, Drain, Dry	Level 1: Streamside Clean, Drain, Dry
	Level 2: Streamside Clean, QUAT, Rinse	Level 2: Streamside Clean, QUAT, Rinse
		Level 3: Decontamination Hub Hot water treatment Secondary QUAT treatment

- AEP has four useful documents on their website that inspectors are required to familiarize themselves with and adhere to:
 - Decontamination Protocol - Watercraft & Equipment
 - Decontamination Risk Map
 - Decontamination Quick Reference Guide
 - Decontamination Equipment List

<http://aep.alberta.ca/fish-wildlife/wildlife-diseases/whirling-disease/stop-the-spread.aspx>



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