

## 2021 DIKE INSPECTION CHECKLIST

Dike No. (From database*; formerly "Dike GPS No.):	Dike Name (From database*):
Diking Authority:	Local Authority under EPA:
Water Course:	Dike Section:
Date Inspected:	Signed:

\* Flood Protection Works Database:

[https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/integrated-flood-hazard-mgmt/dikes\\_listed\\_by\\_ownerauthority.pdf](https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/integrated-flood-hazard-mgmt/dikes_listed_by_ownerauthority.pdf)

A. Is the contact person information correct in the Flood Protection Database\*?

Yes

No

If no, please provide details below:

B. Are all of the information for your dike(s) correct in the Flood Protection Database\*?

Yes

No

If no, please provide details below (if necessary, attached database sheets with mark-up):

C. Has the person inspecting the dike reviewed the "Flood Protection Works Inspection Guide", or is familiar with its contents?

Yes

No

If not, please refer to "Flood Protection Works Inspection Guide" (2000) for a detailed guide to dike inspection and reporting:

[http://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/integrated-flood-hazard-mgmt/fld\\_prot\\_insp\\_gd.pdf](http://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/integrated-flood-hazard-mgmt/fld_prot_insp_gd.pdf)

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D. Has the dike crest elevation been surveyed within the last 10 years?

Yes

No

If yes, when was the last survey (year)? \_\_\_\_\_

It is highly recommend that the Diking Authority survey the dike crest at least once every 10 years, to identify potential dike settlement and/or low spots that are not easily identified by visual inspection

E. Was the dike notably damaged (i.e., decreased flood protection provided by this structure or increased likelihood of failure) in a high flow event during the last flood season?

Yes

No

If yes, please briefly describe the damage (location and damage description)

F. Please describe the actions taken. If no actions were taken yet, what is the plan and timeline to address the damage? Will additional temporary flood protection works be required at this location this flood season?

This next part of the checklist is organized into 5 sections, as follows:

1. Access
2. Dike crest, slope, and fill
3. Bank and erosion protection
4. Appurtenant works
5. Vegetation management

## 2021 DIKE INSPECTION CHECKLIST

### 1. ACCESS - Any obstruction, deterioration or damage to dike access? (access routes, ramps, and gates)

	YES	NO***	N/A
Location(s)**:  Summary of Issues:        Maintenance Recommendations:        When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>• Unauthorized construction or activities (excavations, utilities, structures)</li> </ul>	YES	NO***	N/A
Location(s)**:  Summary of Issues:        Maintenance Recommendations:        When will Recommendations be Completed:			

Attached photos or sketch with corresponding reference in the checklist (e.g., photo 1...etc) for deficiencies observed – Section 1

\*\* When referring specific locations, please use either:  
 - Major landmarks (roads, intersections, bridges, etc.), DO NOT use local property names  
 - GPS coordinates (where possible)  
 - Chainages from the O&M manual drawings

\*\*\* Even if NO DEFICIENCY, still add confirmation (e.g., no deficiencies observed during field visit) under "Summary of Issues"

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### 2. DIKE CREST, SLOPE, AND FILL

**Any serious issues observed of the following?**

	YES	NO <sup>***</sup>	N/A
<ul style="list-style-type: none"> <li>• Dike Crest (ruts, loss of surfacing material, cracking)</li> </ul>			
Location(s):  Summary of Issues:  Maintenance Recommendations:  When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>• Settlement, slumping, sink holes (dike fill and/or slope)</li> </ul>	YES	NO <sup>***</sup>	N/A
Location(s):  Summary of Issues:  Maintenance Recommendations:  When will Recommendations be Completed:			

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	YES	NO <sup>***</sup>	N/A
<ul style="list-style-type: none"> <li>• Slope instability (slides, sloughs, toe or slope bulges)</li> </ul>			
<p>Location(s):</p>  <p>Summary of Issues:</p>   <p>Maintenance Recommendations:</p>    <p>When will Recommendations be Completed:</p>			
<ul style="list-style-type: none"> <li>• Seepage, piping, boils</li> </ul>			
<p>Location(s):</p>  <p>Summary of Issues:</p>   <p>Maintenance Recommendations:</p>    <p>When will Recommendations be Completed:</p>			

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	YES	NO <sup>***</sup>	N/A
<ul style="list-style-type: none"> <li>• Animal Damage (rodents/beavers, animal burrows, cattle...etc., on crest and/or slope)</li> </ul>			
<p>Location(s):</p>  <p>Summary of Issues:</p>   <p>Maintenance Recommendations:</p>   <p>When will Recommendations be Completed:</p>			
<ul style="list-style-type: none"> <li>• Significant flood levels, loss of freeboard (overtopping or flood reaching within 0.6 m below the crest in the last 12 months)</li> </ul>			
<p>Location(s):</p>  <p>Summary of Issues:</p>   <p>Maintenance Recommendations:</p>   <p>When will Recommendations be Completed:</p>			

Attached photos or sketch with corresponding reference in the checklist (e.g., photo 1...etc) for deficiencies observed– Section 2

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## 2021 DIKE INSPECTION CHECKLIST

<b>3. BANK/EROSION PROTECTION</b>	<b>YES</b>	<b>NO<sup>***</sup></b>	<b>N/A</b>
<b>Any serious issues observed of the following?</b>			
<ul style="list-style-type: none"> <li>• Bank Protection loss or displacement (steep slopes, beaching, scarping, weathering)</li> </ul>			
<p>Location(s):</p>  <p>Summary of Issues:</p>    <p>Maintenance Recommendations:</p>    <p>When will Recommendations be Completed:</p>			
<ul style="list-style-type: none"> <li>• Erosion (toe scour, bed degradation, outflanking)</li> </ul>	<b>YES</b>	<b>NO<sup>***</sup></b>	<b>N/A</b>
<p>Location(s):</p>  <p>Summary of Issues:</p>    <p>Maintenance Recommendations:</p>    <p>When will Recommendations be Completed:</p>			

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	YES	NO <sup>***</sup>	N/A
<ul style="list-style-type: none"> <li>Changing Channel Flow Patterns (channel infilling, gravel bars, log or ice jam)</li> </ul>			
Location(s):			
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			

### 4. APPURTENANT WORKS

	YES	NO <sup>***</sup>	N/A
<ul style="list-style-type: none"> <li>Flood Boxes/Pump stations (inlet/outlet channels, gate operation, trash racks, debris, erosion, corrosion, structure, mechanical components)</li> </ul>			
Location(s):			
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>Culverts/Discharge Pipes (breaks, holes, cracks, corrosion, deterioration)</li> </ul>			
Location(s):			
Summary of Issues:			
Maintenance Recommendations:			
When will Recommendations be Completed:			

Attached photos with corresponding reference in the checklist (e.g., photo 1...etc) for deficiencies observed– Section 4

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### 5. VEGETATION MANAGEMENT

	YES	NO***	N/A
<ul style="list-style-type: none"> <li>Vegetation hampers or prevents access?</li> </ul>			
Location(s): Summary of Issues:  Maintenance Recommendations:  When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>Vegetation reduces visibility to dike toe on each side?</li> </ul>			
Location(s): Summary of Issues:  Maintenance Recommendations:  When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>Trees in or near dike (within 2m from toe) with potential for uprooting?</li> </ul>			
Location(s): Summary of Issues:  Maintenance Recommendations:  When will Recommendations be Completed:			
<ul style="list-style-type: none"> <li>Annual/Multi-year vegetation management plan in place? (if yes, attach management plan to the report)</li> </ul>			
If not, please discuss how one will be put into place:			

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