



Dam Owner Annual Inspection Form Earthen Dams

Project Data

Dam Name:	
County:	State Dam No. (if known)
Owner Name:	
Owner Address:	Telephone No.:
	E-mail address:
Inspected by:	
Inspection Date:	Weather:

Directions

- During inspection, check all boxes that apply. Fill in the overall condition of each structure and what actions will be taken to remedy any issues found. Mail or email a copy of the completed form to the Dam Safety Office.
- Mark approximate location of any problems on plan of dam footprint on page 6 and attach photos on page 7
- For concrete structures associated with your dam, check the “concrete in poor condition” box if you notice signs of settlement, misalignments, heaving, offset joints, cracks, or exposed reinforcements and make a note of what you have found in the line for overall condition.

Reservoir Data

Reservoir Level at time of inspection _____ feet below dam crest

Reservoir Outflow at time of inspection _____ cfs or _____ gpm

Condition of Dam (embankment, abutments, foundation)

Dam crest Check all that apply:

- | | | | |
|--|---|---|--------------------------------|
| <input type="checkbox"/> low areas | <input type="checkbox"/> surface cracking | <input type="checkbox"/> animal burrows | <input type="checkbox"/> brush |
| <input type="checkbox"/> horizontal misalignment | <input type="checkbox"/> ruts | <input type="checkbox"/> trees | |

Overall condition: _____

Actions needed: _____

Upstream face Check all that apply:

- | | | |
|---------------------------------|---|---|
| <input type="checkbox"/> slumps | <input type="checkbox"/> sinkholes | <input type="checkbox"/> animal burrows |
| <input type="checkbox"/> slides | <input type="checkbox"/> slope protection | <input type="checkbox"/> trees |
| <input type="checkbox"/> scarps | <input type="checkbox"/> wave erosion | <input type="checkbox"/> brush |

Overall condition: _____

Actions needed: _____

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-6831 or visit <https://ecology.wa.gov/accessibility>. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.

Condition of Dam Cont. (embankment, abutments, foundation)

Downstream face and toe Check all that apply:

- wet or soft areas
- slumps
- slides
- scarps
- sinkholes
- change in slope
- erosion
- unusual movement
- animal burrows
- water-loving vegetation
- trees
- brush

Is there seepage? Yes No If yes,

Location of seep: _____

Is the seep? clear turbid N/A

Estimated flow: _____

Is there sediment? Yes No

Overall condition: _____

Actions needed: _____

Pond liner Check all that apply:

- slope slumping
- tears, punctures, abrasion, other damage
- seam separation
- liner attachment issues to pipes, ramps, manholes
- ballooning of liner
- gas vents obstructed
- safety ladders/ropes integrity issues
- anchor trench/batten straps issues
- liner subgrade support movement or displacement

Overall condition: _____

Actions needed: _____

Internal leak detection system

- Check water level in sump. Is water present: Yes No
- Damage to pipe boot at riser? Yes No
- Odors coming from inside riser boot? Yes No

Overall condition: _____

Actions needed: _____

Drop Inlet Spillway or Culvert (Pipe) Spillway

Spillway entrance or approach channel Check all that apply:

- debris
- vegetation
- slides
- other obstructions
- erosion protection
- other debris barrier
- trash rack in good condition

Overall condition: _____

Actions needed: _____

Intake or riser structure Look at riser crest, sidewalls, floor, trash rack, air vent. Check all that apply:

- misalignment
- movement
- settlement
- cracking
- concrete deterioration
- seepage at joints or cracks
- metal corrosion
- missing bolts
- air vent obstruction
- debris
- vandalism

Overall condition: _____

Actions needed: _____

Drop Inlet Spillway or Culvert (Pipe) Spillway Cont.

Gates and gate controls Check all that apply: (leave blank if not applicable)

- | | | |
|---|--|---|
| <input type="checkbox"/> operable and working | <input type="checkbox"/> deterioration | <input type="checkbox"/> other damage |
| <input type="checkbox"/> corrosion | <input type="checkbox"/> vandalism | <input type="checkbox"/> annual maintenance has been done |

Overall condition: _____

Actions needed: _____

Outlet pipeline Look at concrete or metal condition, protective coating, pipe joints. Check all that apply:

- | | | |
|--|--|--|
| <input type="checkbox"/> debris | <input type="checkbox"/> cracks | <input type="checkbox"/> cavitation |
| <input type="checkbox"/> other blockage or obstruction | <input type="checkbox"/> deterioration | <input type="checkbox"/> seepage from drains/pipe exterior |
| <input type="checkbox"/> joint separation | <input type="checkbox"/> settlement | |
| <input type="checkbox"/> movement | <input type="checkbox"/> corrosion | |

Overall condition: _____

Actions needed: _____

Pipeline outfall or stilling basin Check all that apply:

- | | | |
|--|--|---|
| <input type="checkbox"/> debris | <input type="checkbox"/> cracks | <input type="checkbox"/> undermining |
| <input type="checkbox"/> vegetation | <input type="checkbox"/> deterioration | <input type="checkbox"/> gabions in poor condition |
| <input type="checkbox"/> concrete condition poor | <input type="checkbox"/> settlement | <input type="checkbox"/> riprap layer in poor condition |
| <input type="checkbox"/> movement | <input type="checkbox"/> erosion | |

Overall condition: _____

Actions needed: _____

Lead-out drain outfall(s)

Able to locate? Yes No

Is there evidence of seepage? Yes No

Overall condition: _____

Actions needed: _____

Open Channel Spillway or Weir Drop Structure

Spillway entrance and overflow section, or weir overflow structure

Look at channel base, side slopes; concrete floor, sidewalls; weir boards. Check all that apply

- | | | |
|---|--|---|
| <input type="checkbox"/> debris | <input type="checkbox"/> cracks | <input type="checkbox"/> gabions in poor condition |
| <input type="checkbox"/> vegetation | <input type="checkbox"/> deterioration | <input type="checkbox"/> riprap layer in poor condition |
| <input type="checkbox"/> slides | <input type="checkbox"/> settlement | <input type="checkbox"/> weir boards in poor condition |
| <input type="checkbox"/> other obstructions | <input type="checkbox"/> cavitation | <input type="checkbox"/> log boom in poor condition |
| <input type="checkbox"/> concrete in poor condition | <input type="checkbox"/> erosion in earth or grass-lined channel | <input type="checkbox"/> other debris barrier in poor condition |
| <input type="checkbox"/> movement | | |

Overall condition: _____

Actions needed: _____

Open Channel Spillway or Weir Drop Structure Cont.

Gates and gate controls Check all that apply: (leave blank if not applicable)

- | | | |
|---|--|---|
| <input type="checkbox"/> operable and working | <input type="checkbox"/> deterioration | <input type="checkbox"/> other damage |
| <input type="checkbox"/> corrosion | <input type="checkbox"/> vandalism | <input type="checkbox"/> annual maintenance has been done |

Overall condition: _____

Actions needed: _____

Outlet channel Check: channel base, side slopes; concrete floor, sidewalls. Check all that apply:

- | | | |
|---|---|--|
| <input type="checkbox"/> debris | <input type="checkbox"/> cracks | <input type="checkbox"/> gabions in poor condition |
| <input type="checkbox"/> vegetation | <input type="checkbox"/> deterioration | <input type="checkbox"/> riprap layer in poor condition |
| <input type="checkbox"/> slides | <input type="checkbox"/> settlement | <input type="checkbox"/> seepage from under-drains or
along concrete exterior |
| <input type="checkbox"/> other obstructions | <input type="checkbox"/> cavitation | |
| <input type="checkbox"/> concrete in poor condition | <input type="checkbox"/> erosion in earth or grass-lined
channel | |
| <input type="checkbox"/> movement | | |

Overall condition: _____

Actions needed: _____

Spillway outfall or stilling basin Check all that apply:

- | | | |
|---|--|---|
| <input type="checkbox"/> debris | <input type="checkbox"/> cracks | <input type="checkbox"/> undermining |
| <input type="checkbox"/> vegetation | <input type="checkbox"/> deterioration | <input type="checkbox"/> gabions in poor condition |
| <input type="checkbox"/> concrete in poor condition | <input type="checkbox"/> settlement | <input type="checkbox"/> riprap layer in poor condition |
| <input type="checkbox"/> movement | <input type="checkbox"/> erosion | |

Overall condition: _____

Actions needed: _____

Under-drain outfalls Check all that apply:

Able to locate? Yes No Is there evidence of seepage? Yes No

Overall condition: _____

Actions needed: _____

Low-Outlet Works (visible elements)

Intake structure (if visible) Check all that apply:

- | | | |
|---|--|--|
| <input type="checkbox"/> debris | <input type="checkbox"/> other debris barrier in poor
condition | <input type="checkbox"/> metal in poor condition |
| <input type="checkbox"/> other obstructions | | |
| <input type="checkbox"/> trash rack in poor condition | <input type="checkbox"/> concrete in poor condition | |

Overall condition: _____

Actions needed: _____

Gates/valves and control mechanisms Check all that apply:

- | | | |
|---|--|---|
| <input type="checkbox"/> operable and working | <input type="checkbox"/> deterioration | <input type="checkbox"/> other damage |
| <input type="checkbox"/> corrosion | <input type="checkbox"/> vandalism | <input type="checkbox"/> annual maintenance has been done |

Overall condition: _____

Actions needed: _____

Low-Outlet Works Cont. (visible elements)

Outlet pipeline and pipe outfall Look at concrete or metal condition, protective coating, pipe joints. Check all that apply:

- | | | |
|--|---|---|
| <input type="checkbox"/> debris | <input type="checkbox"/> deterioration | <input type="checkbox"/> seepage from drains/pipe exterior |
| <input type="checkbox"/> other blockage or obstruction | <input type="checkbox"/> settlement | <input type="checkbox"/> gabions in poor condition at outfall |
| <input type="checkbox"/> joint separation | <input type="checkbox"/> corrosion | <input type="checkbox"/> riprap in poor condition at outfall |
| <input type="checkbox"/> movement | <input type="checkbox"/> cavitation | |
| <input type="checkbox"/> cracks | <input type="checkbox"/> undermining at outfall | |

Overall condition: _____

Actions needed: _____

Internal seepage/drainage controls (leave blank if not applicable)

Lead-out drain outfalls:

Able to locate? Yes No

Presence of fines or sediment? Yes No

Clarity of flow: _____

Estimated/measured flow(s): _____

Color or staining? Yes No

Measuring devices: _____

Overall condition: _____

Actions needed: _____

Piezometers:

Able to locate? Yes No

Readings: _____

In secure location? Yes No

Condition of casing: _____

Overall condition: _____

Actions needed: _____

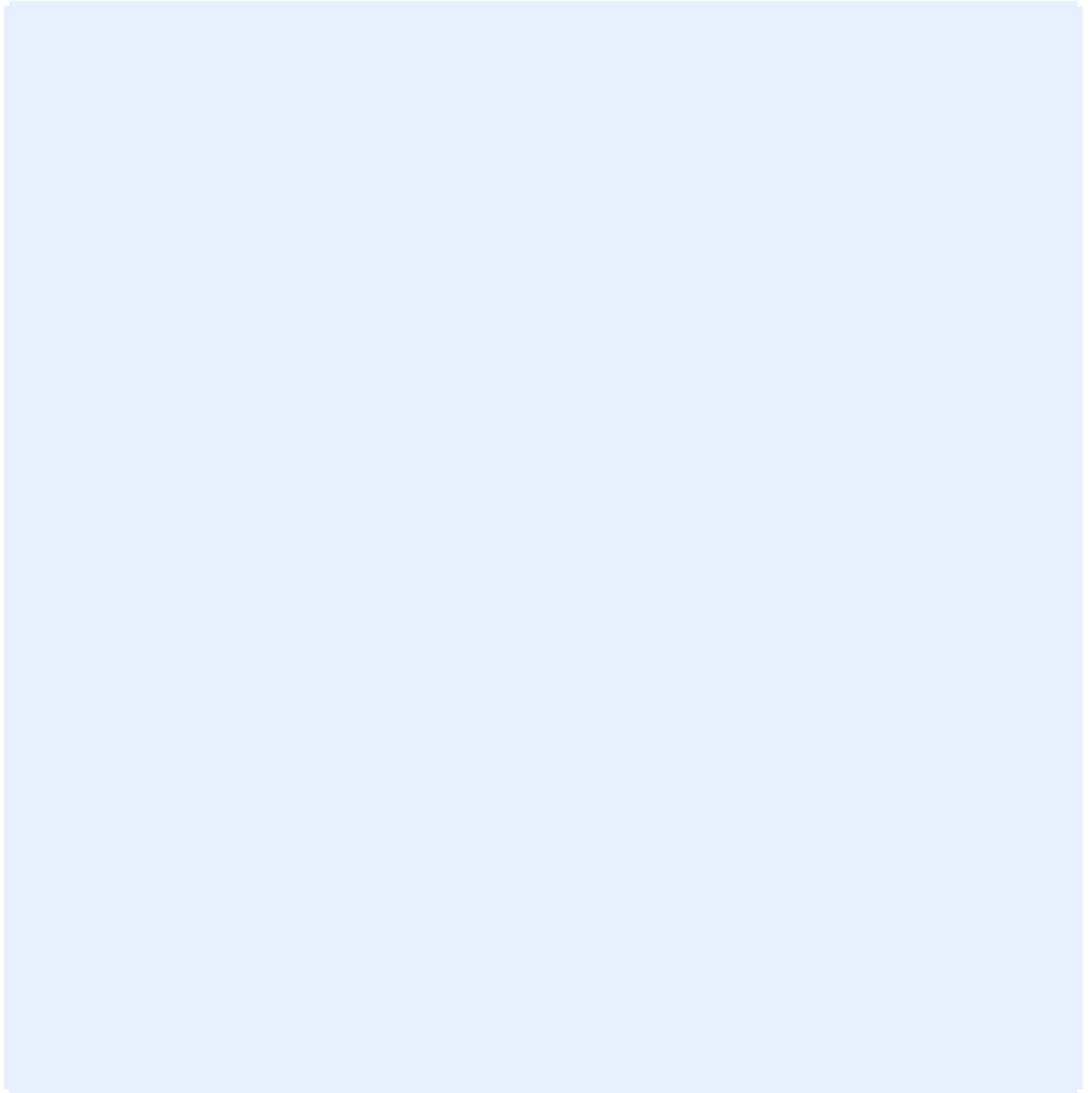
Emergency Action Plan (EAP) and Operation and Maintenance (O&M) Manual

Date of EAP or last update on file with Ecology? Date: _____

Date of O&M Manual or last update on file with Ecology? Date: _____

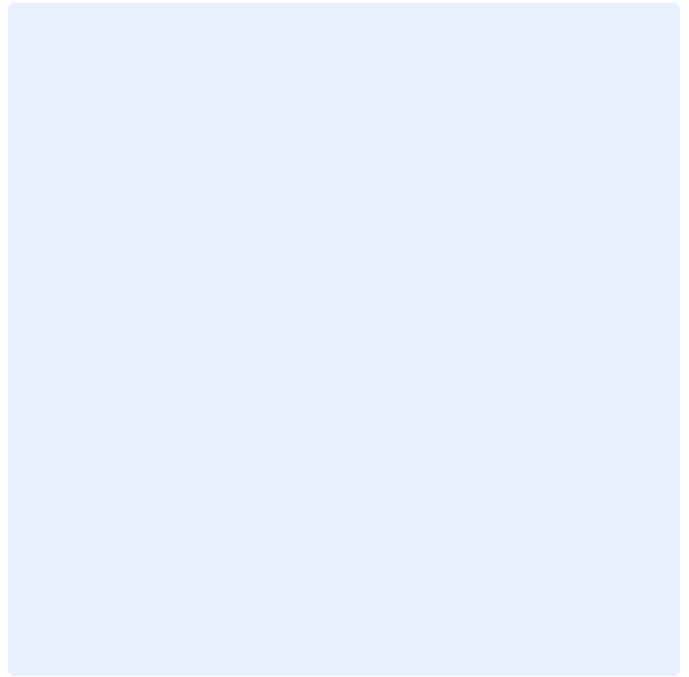
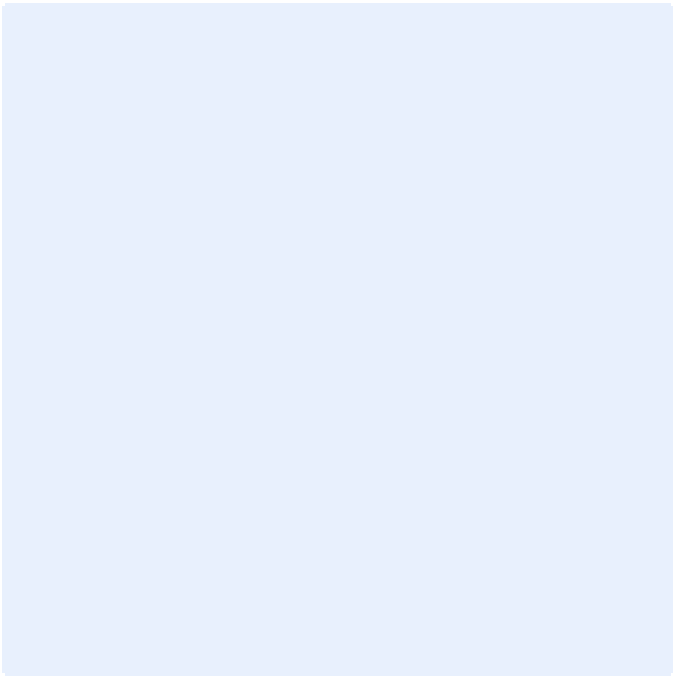
Additional Comments

Plan View of Dam

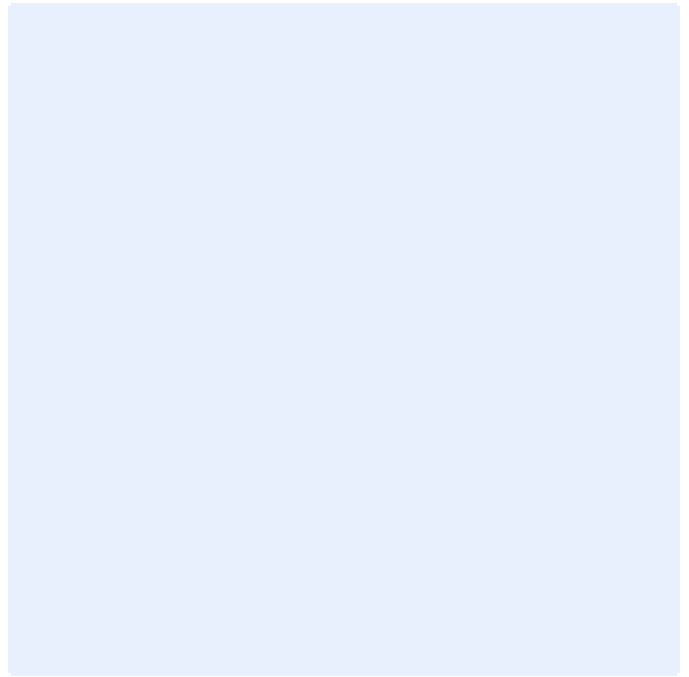
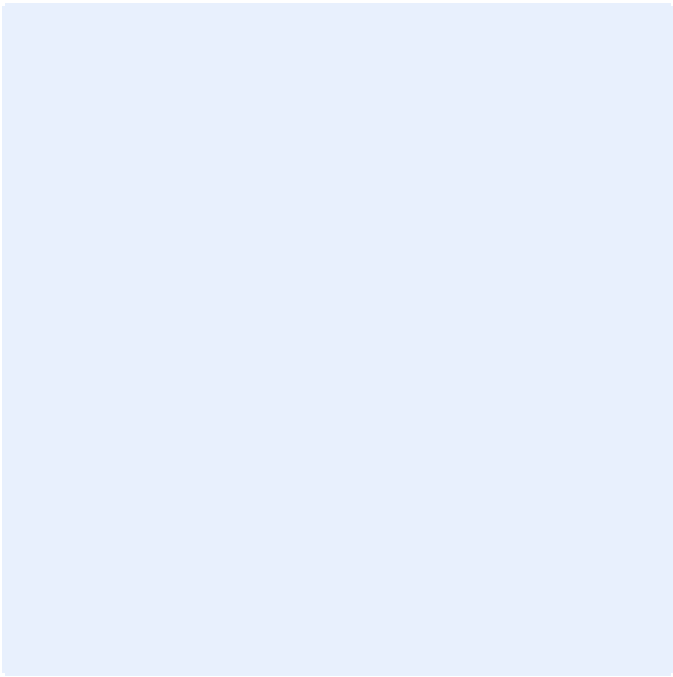


(Insert plan view of dam and spillways)

Photographs



(Insert photographs)



Mail or email a copy of this completed form to the attention of the Dam Compliance Technician at Ecology's Dam Safety office:

By email: damsafety@ECY.WA.GOV

By mail: Washington State Dept. of Ecology
Dam Safety Office
Attn: Dam Compliance Technician
PO Box 47600
Olympia, WA 98504-7600

Problems found during your inspection?

If a problem is observed, please call the Dam Safety Office at (360) 407-6872 during business hours for guidance and assistance.

If it is an emergency call:

1. Call **911**
2. Call State Division of Emergency Management
 - a. Call the Duty Officer (available 24 hours/day) at **1-800-258-5990**
 - b. Clearly state that this is a "**dam safety emergency**"

Would you like a customized inspection form?

If you have found that this form has sections that do not apply to your dam or there are aspects to your dam that are not captured in this form, contact the Dam Compliance Technician at (360) 407-6613 or damsafety@ECY.WA.GOV and we will create an Annual Inspection Form specific to your dam.

Helpful Documents and Information

[Ecology's Dam safety website](https://ecology.wa.gov/Water-Shorelines/Water-supply/Dams): <https://ecology.wa.gov/Water-Shorelines/Water-supply/Dams>

Documents found there:

- General information and dam ownership responsibilities
- Dam owner's guidance manual
- Impacts of animals on earthen dams
- Impacts of plants on earthen dams
- Burrowing animal guidance