

Emergency Response Plan
For
Shawnigan Village
Waterworks

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Shawnigan Village Waterworks Emergency Response Plan

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Shawnigan Village Waterworks Emergency Response Plan

Contamination of source – Spills, Vehicle Accident, Train Accident

Actions:

Shut down pumps
Notify Health Unit
Notify Users
Contact government agencies for advise and assistance.
Arrange alternate source if necessary, bulk hauler, bottled water

Contacts:

Local Health Unit (250-737-2010), Provincial Emergency Preparedness (1-800-663-3456),
Police (250-743-5514), Ministry of Environment (250-727-21410), Fisheries (.

Loss of Source - Intake damaged

Actions:

Shut down pumps
Arrange for alternate source, bulk hauler, bottled water

Contacts:

Local Health Unit

Broken Water Main

Actions:

Reduce Pressure (maintain enough flow to prevent backflow)
Call for repairs
Notify effected customers

Contacts:

System Engineer
Local Health Unit
Backhoe Greg Kendall
Doran & Sons Plumbing

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Chlorinator Failure

Actions:

Notify Health Unit
Shut off pumps
Notify Customers of boil water
Take Chlorine Samples at reservoir
Batch chlorinate at reservoir
Flush hydrants to distribute chlorinated water
Take Chlorine samples throughout system
Arrange for repairs

Contacts:

Local Health Unit
System Engineer

Pump Failure

Actions:

Notify customers if not able to maintain supply
Notify Health Unit if not able to maintain supply
Call for repairs
Monitor reservoir levels
Backfeed Jersey reservoir from upper reservoir by opening backfeed valve or opening a normally closed separation valve in the system
Arrange for backup pumps

Contacts:

Local Health Unit
Pumps Osbourne Electric
System Engineer

Low Pressure

Actions:

Identify area and Booster Pumphouse: Galland Rd. Pumphouse or Jersey Rd. Pumphouse
Check pumphouses for problem
Galland Rd. may only need to be reset if supply flow was low for a extended period of time

Contacts:

System Engineer
Pumps Osbourne Electric

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Power Failure

Actions:

Call BC Hydro estimate of time
Monitor reservoir levels
Backfill Jersey reservoir from upper reservoir
Notify customers if not able to maintain supply
Notify Health Unit if not able to maintain supply
Arrange for backup generators

Contacts:

Local Health Unit
HB Electric to connect generators

Backflow or Back Siphonage

Actions:

Notify Health Unit
Notify Customers of boil water advisory
Identify and isolate Cross Connection
Purge and Disinfect lines

Contacts:

Local Health Unit,

Earthquake

Actions:

Check for power
Monitor reservoir levels
Notify customers if not able to maintain supply
Notify Health Unit if not able to maintain supply
Arrange for engineer do a complete system check

Contacts:

Local Health Unit
HB Electric to connect generators
System Engineer

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Control System Failures

Actions:

Identify type of failure

- Lake Pump House
 - No Flow
 - Blocked Suction
 - Control Valve Malfunction
 - Mercoid Switch Malfunction
 - Telephone Line float communication
 - Pumps Air Locked
- Transfer Pump house and Reservoirs Jersey Rd.
 - Float Malfunctions at reservoir
 - Concrete Reservoir float operated level control
 - Transfer pump Controls
- Galland Rd. Booster Pumps
 - Low Pressure Reset
 - Mercoid Switch Malfunction

Run Pumps on manual if necessary

Review Control System Operating Manuals Located in Pumphouses

Contact System Engineer if needed

Monitor reservoir levels

Notify customers if not able to maintain supply

Notify Health Unit if not able to maintain supply

Contact contractors for repairs if needed

Contacts:

Local Health Unit

HB Electric

BC Telephone

System Engineer