

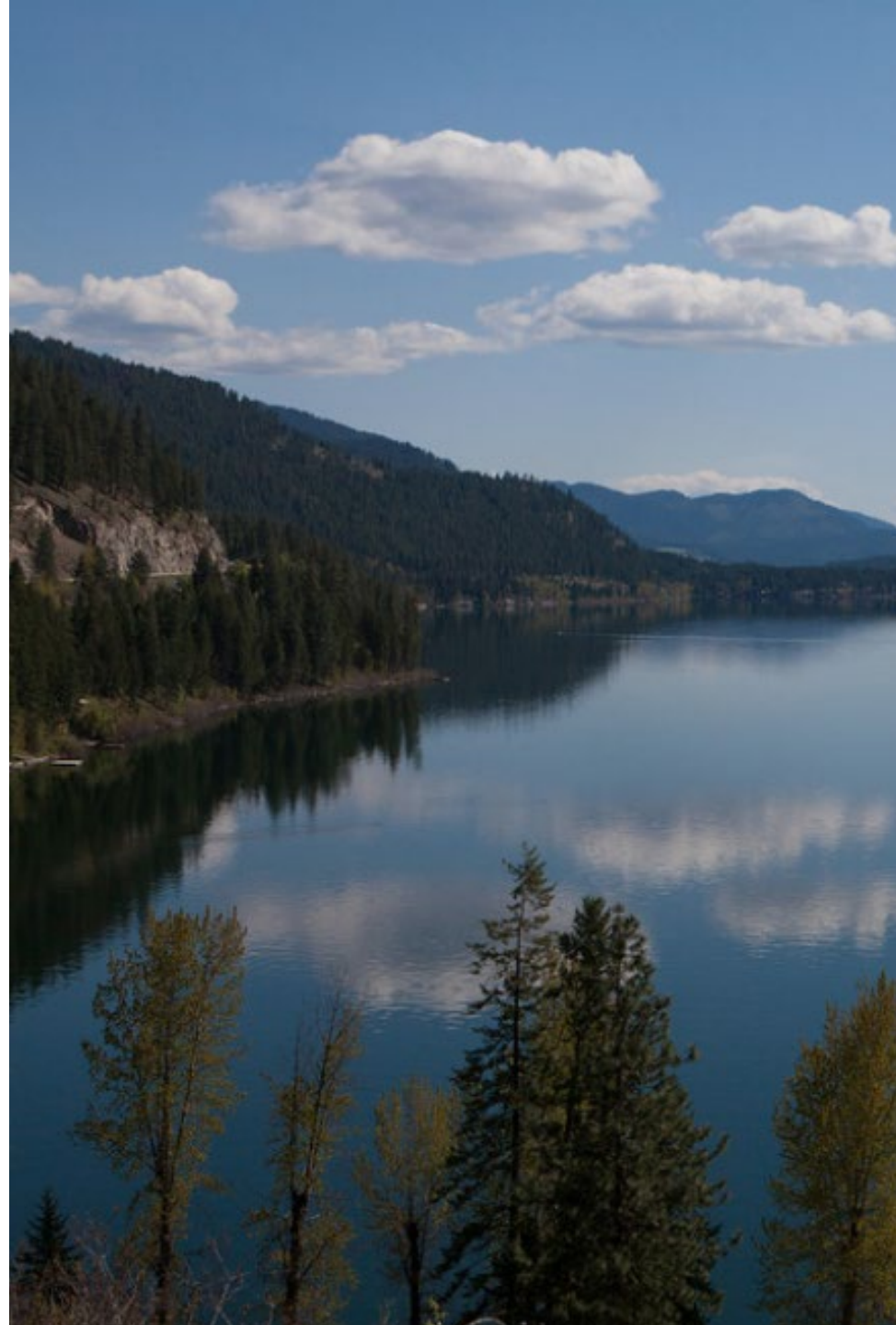


Regional District of  
Kootenay Boundary

# Christina Lake Water Utility

## *Source Protection/Water Conservation*

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# Source Protection

- **Goals of Source Protection**

- Identify and evaluate threats to drinking water safety and sustainability
- Develop recommendations to reduce risks and improve the resiliency of the water supply.

- **Method** *(BC Comprehensive Drinking Water Source-to-Tap Assessment Guideline)*

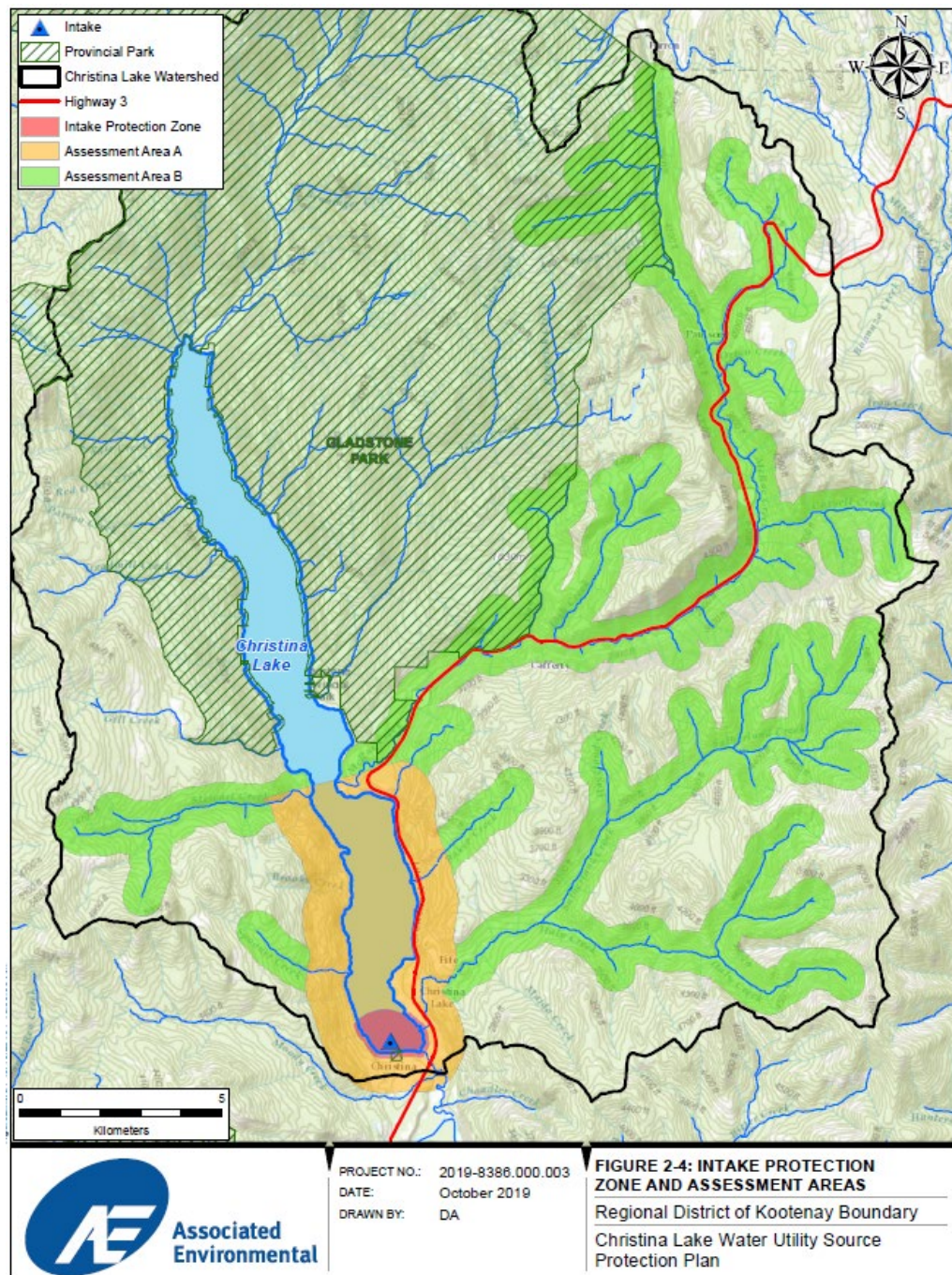
- Characterize the water source and delineate the assessment area (Module 1)
- Conduct a contaminant source inventory to identify drinking water hazards (Module 2)
- Rank the identified hazards (Module 7)
- Recommend actions to improve drinking water safety (Module 8)

# Source Protection

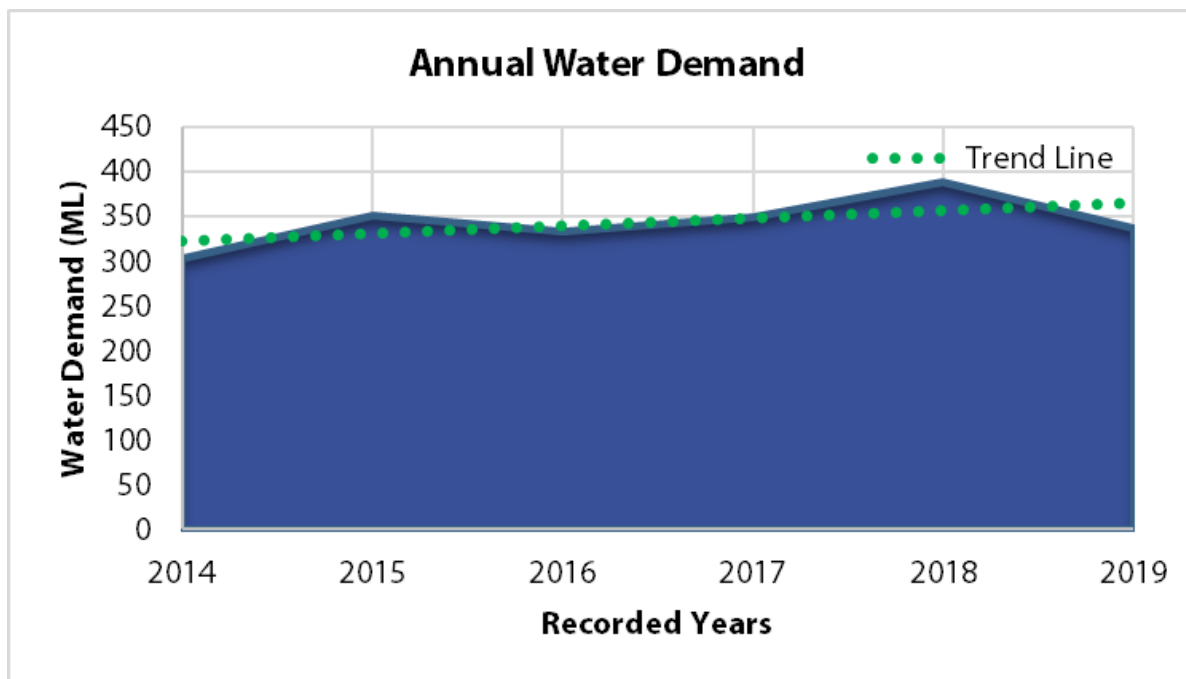


## • Recommendations

- Engagement with other public agencies and industry.
- Improve public awareness of the water source and importance of source water protection.
- Water system infrastructure management and operations.
- Monitoring and lake studies.
- Legislation and policy (i.e., through the Official Community Plan review process, which is currently underway).
- Emergency preparedness.



# How much do we use?



# Water Conservation

- **Why water conservation?**

- Warmer winters (more rainfall and less snow during winter)
- Longer drier summers (less availability of water during summer months)
- Highest water demand occurs during driest months (estimated 74% of water use during the summer of 2019)

- **Why do we want it?**

- Reduce stress on Christina Lake and protect fish and aquatic ecosystems
- Ensure enough water available for fire protection
- Reduce operation and maintenance costs
- Increase life of infrastructure

- **What are the goals?**

- Modest 10% reduction in water demand by 2021
- Achievable through outdoor water use conservation



Regional District of  
Kootenay Boundary

# CHRISTINA LAKE WATER UTILITY WATER RESTRICTIONS

| ACTIVITY                                                                                                                                               | STAGE 1<br>Normal                                                                                                                                                    | STAGE 2<br>Dry                                                                                                                                                      | STAGE 3<br>Very Dry                                                                                                                  | STAGE 4<br>Extremely Dry                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Lawn, trees, shrubs, vegetables, flower gardens watered by sprinkler or irrigation system<br><b>Allowed 4:00 am to 9:00 am and 7:00 pm to 10:00 pm</b> | <b>Even Numbered Addresses</b><br>Tuesday, Thursday, Saturday<br><b>Odd Numbered Addresses</b><br>Wednesday, Friday, Sunday<br><b>No Watering Allowed on Mondays</b> | <b>Even Numbered Addresses</b><br>Tuesday, Saturday<br><b>Odd Numbered Addresses</b><br>Wednesday, Sunday<br><b>No Watering Allowed on Monday, Thursday, Friday</b> | <b>Even Numbered Addresses</b><br>Saturday<br><b>Odd Numbered Addresses</b><br>Sunday<br><b>No Watering Allowed Monday to Friday</b> | <b>Prohibited</b>                                     |
| Micro Irrigation or Drip Irrigation System                                                                                                             | Allowed                                                                                                                                                              | Allowed                                                                                                                                                             | Allowed                                                                                                                              | Allowed<br>4:00 am to 9:00 am and 7:00 pm to 10:00 pm |
| Watering with handheld container or hose with shut off nozzle                                                                                          | Allowed                                                                                                                                                              | Allowed                                                                                                                                                             | Between 7:00 pm and 7:00 am                                                                                                          | <b>Prohibited</b>                                     |
| Washing personal vehicles (does not apply to commercial car wash stations)                                                                             | Allowed with shutoff nozzle                                                                                                                                          | Allowed with shutoff nozzle                                                                                                                                         | Allowed with shutoff nozzle                                                                                                          | <b>Prohibited</b>                                     |
| Cleaning surfaces, sidewalks, driveways                                                                                                                | Allowed with shutoff nozzle                                                                                                                                          | Allowed with shutoff nozzle                                                                                                                                         | <b>Prohibited</b>                                                                                                                    | <b>Prohibited</b>                                     |
| Filling fountains, hot tubs, and pools                                                                                                                 | Allowed                                                                                                                                                              | Allowed                                                                                                                                                             | <b>Prohibited</b>                                                                                                                    | <b>Prohibited</b>                                     |
| Watering sod, new grass, plantings                                                                                                                     | Allowed with authorization from RDKB Environmental Services                                                                                                          | Allowed with authorization from RDKB Environmental Services                                                                                                         | <b>Prohibited</b>                                                                                                                    | <b>Prohibited</b>                                     |

**Questions?** Please contact **RDKB** at 250.368.9148 or 1.800.355.7352

rdkb.com

# Provincial Drought levels



- **Stage 1 – Normal Conditions**

- There is sufficient water to meet human and ecosystem needs

- **Stage 2 – Dry**

- First indications of a potential water supply problem
- Reduce number of watering days

- **Stage 3 – Very Dry**

- Potentially serious ecosystem or socio-economic impacts are possible
- Reduce number of watering days and non essential outdoor watering

- **Stage 4 – Extremely Dry**

- Water supply insufficient to meet socio-economic and ecosystem needs
- Reduce all outdoor uses of water to essential uses (mostly indoor use)