

Summerland Irrigation Upgrades Project

AGRICULTURE AND AGRI-FOOD CANADA
SUMMERLAND RESEARCH AND DEVELOPMENT CENTER
SUMMERLAND BC

Nov 2020

Overview



Access
from
Highway
97



Main
Building
Entrance



Security gates onsite – multiple locations
Electronic locks and keyed locks



Current irrigation equipment



PUMPHOUSE



PUMPHOUSE




PUMPHOUSE



Reservoir

- Concrete vault at the upper end of the research center.
- Is a balancing reservoir and provides gravity fed water to the irrigation system
- Some maintenance aspects are anticipated with the design to ensure ongoing operation and system reliability
- Confined space – entry by permit only; by trained staff



 RESERVOIR

Reservoir



Reservoir



NEW LAYOUT

- REPLACE THE MAIN TRANSMISSION LINE FROM THE PUMPHOUSE TO THE RESERVOIR INCLUDING THE ADDITION OF 2 PRESSURE RELIEF STATIONS AND A FILTRATION STATION.
 - The section of pipe under the highway and up the escarpment will need to be evaluated in detail to see if it needs to be replaced. If replacement is required, installation will be by directional drilling.
 - High pressure pipe lines will be ductile iron pipe
 - Lower pressure lines will be PVC
 - The existing pumphouse, pumps, and intake are to remain
- REPLACE THE MAIN LATERALS THAT SERVICE THE IRRIGATION PLOTS
 - The preliminary estimates on pipe size and run are:
 - 600m of 250mm PVC, 7500m of 150mm PVC, and 6300m of 100mm PVC pipe
 - Sprinkler heads/field application equipment is not anticipated to be part of the scope

New layout

