

# French Creek Water Service Area

## Introduction

The French Creek Water Service Area was established in 1980 and comprises an area west of Drew Road and south of the Island Highway between the City of Parksville and the Town of Qualicum Beach. There are currently 240 residential connections and no commercial connections to the water system. The water source for the French Creek Water Service Area comes from a series of groundwater wells located nearby. The water source is chlorinated and stored in two reservoirs.

## Detailed Description

### Wells

(see attachment for well locations)

Well #/ Name	Well Depth	In use	Wellhead protection?	Treated or Untreated by Chlorine
#1	39.6 m	No	Yes	Treated
#2	40.5 m	Yes	Yes	Treated
#4	40.2 m	Yes	Yes	Treated
#5	50.3 m	Yes	Yes	Treated
#6	52.4 m	Yes	Yes	Treated
#7	39.6 m	Yes	Yes	Treated

### Reservoirs

There are two reservoirs, one is a steel structure containing approximately 80,000 gallons, and the other is constructed of wood and contains about 60,000 gallons. Both reservoirs are located on Sunrise Drive.

### Distribution System

The distribution system consists of a mix of 200mm, 150mm and 100mm PVC and AC supply lines. Fire Hydrants are connected to the system.

## Maintenance Programs

### Sources

Regular maintenance of the well head areas to ensure the risk of contamination or systems failure is reduced or eliminated.

### Reservoirs

Metal reservoir is cleaned and flushed every two years, the wooden reservoir's age prohibits entry.

# French Creek Water Service Area

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## Distribution System

Water mains are flushed annually.

## Current Year Planned Maintenance / Improvements

Metal reservoir is to be upgraded in 2006, wooden reservoir is to be decommissioned in 2006.

Fire Hydrant maintenance.

## Water Sampling and Testing Program

*See attached for all water testing reports.*

The distribution system is tested using the following schedule.

Timing	Location	Tests
Weekly	In house laboratory (RDN)	Fecal Coliforms Total Coliforms Temperature PH Chlorine Total Dissolved Solids Salinity Conductivity Iron Manganese
Weekly (Health Dept. Required)	Independent Laboratory*	Fecal Coliforms Total Coliforms
Monthly	Independent Laboratory*	Chloride
Quarterly	Independent Laboratory*	Chloride Conductivity Sodium Total Dissolved Solids
Annual	Independent Laboratory*	Complete potability testing in all wells in October. Complete potability testing in system water (residence).

\* North Island Laboratory.

## Source Transmission and Distribution System Water Quality

See attached lab analysis sheets.

# **French Creek Water Service Area**

## **Emergency Response Plan**

The French Creek Water Local Service Area Emergency response plan is attached for information. This document is updated annually to ensure contact and other relevant information is in place. The emergency Response Plan for part of the overall RDN's Emergency Response Plan Document.

## **Cross Connection Control Program**

Cross connection control is largely achieved through the installation of dual check valves at every metering point in the system. A Cross Connection Control is being developed in 2007.

## **Water Quality Inquires and Complaints**

Inquires were of a general nature related to the delivery of potable water to serviced properties.