

# Cross Connection Control Program Proposed Ordinance Modifications

Presenting: Michael Woodruff, Director of Infrastructure Kim Schoen, Utility Maintenance/ Wastewater Manager

## Strategic Plan



Supportive and Sustainable Infrastructure Financially Responsible

Safe, Active, and Engaged Community

## Introduction

- ♦ Backflow & Hazards
- Backflow Devices

- Final Recommendation

### Backflow & Hazards

### How does a backflow occur ?

#### Two methods

A) <u>BACKPRESSURE</u> – This can occur when the pressure inside a bldg exceeds the pressure entering a bldg.

Example of Backpressure: Booster Pumps or Boiler Systems.

B) **BACK-SIPHONAGE** - This can occur in the event the pressure in the supply piping entering the bldg drops suddenly and a vacuum-like suction begins.

**Example of Back-Siphonage: Water Main Breaks** or the use of fire hydrants

### TWO TYPES OF HAZARDS AND WHERE THEY MAY BE FOUND.

#### **HIGH HAZARDS**

Buildings such as: Hospitals Funeral Homes Car Wash

Internal plumbing such as: X-Ray processing equipment

- **Commercial Boilers**
- **Post Mix Carbonators**

#### LOW HAZARDS

- Buildings such as:
- Coffee Shop
- Assisting Living
- Residential Home
- Internal Plumbing such as:
- Sinks w/ Threaded Connections
- Residential Boilers
- Dishwashers

### Backflow Assemblies

### Double Check Valve Assembly



### Double Check Valve Assembly



### Reduced Pressure (RP) Assembly



#### Vacuum Breaker



## Current Ordinance

In Building Section

Administrative Authority is Chief Building Official

 Guided by and Operated Under the International Plumbing Code

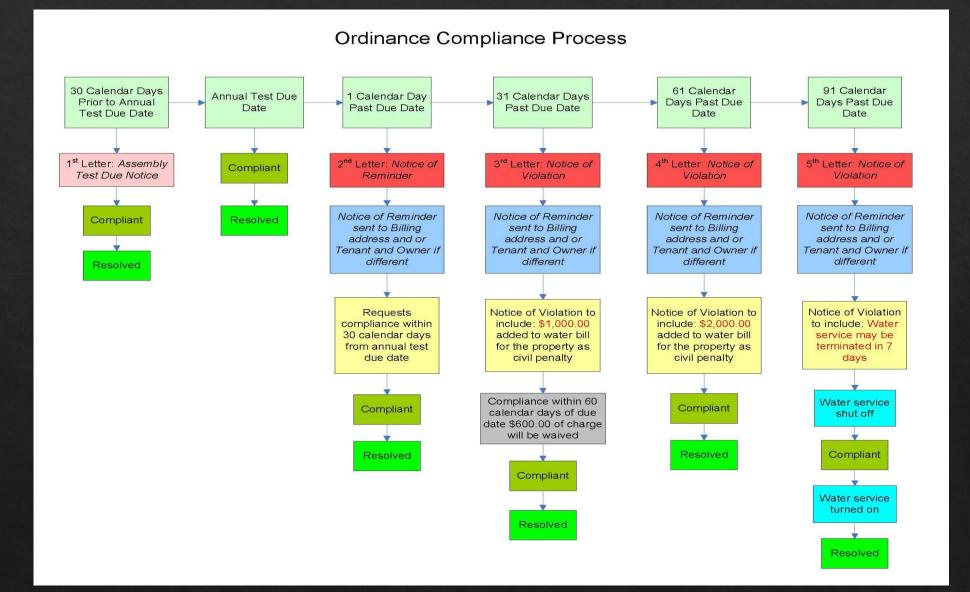
Limited Enforcement Options

## Proposed Ordinance Changes

- Administrative Authority the Director with Authority over Utilities

- Previous correspondence shall be considered when implementing
   the Ordinance

### Ordinance Compliance Process



## Staff Recommendation

- Staff is concerned that without the proposed changes to the existing Ordinance, compliance to meet CDHPE requirements in the future may be negatively impacted.
- Staff is prepared to work with our Communications Department to ensure that all affected entities are aware of the changes to the Ordinance and their compliance responsibilities following passage of the Ordinance.
- City currently has appropriate budget, staff and equipment to track and report results as required.
- Presentation of Ordinance as presented at the September 17, 2019 City Council Meeting for consideration and approval.

