



# RIO VISTA FIRE DEPARTMENT

## Standard 3.5

### Fire Hydrants

The Rio Vista Fire Department is committed to ensuring all fire hydrants located within the City are readily visible, accessible and perform to standards.

Fire Hydrant testing and marking is outlined in National Fire Protection Association (NFPA) 291 and hereby adopted by the Rio Vista Fire Department. Rio Vista standards require that public fire hydrants be inspected on an annual basis (private hydrants shall also be inspected as per requirements of NFPA and the California Fire Code).

Annual Inspection and maintenance procedures can be accomplished via Engine Company participation and affords personnel the opportunity to detect operational problems and allows for familiarity of requirements based on adopted codes. In turn, the Engine Company may document procedure as training and provides knowledge with respect to location and fire flows.

Flow testing of all hydrants will comply with NFPA recommendations and the Insurance Services Office (ISO) evaluation criteria. Hydrants shall be flow tested by staff that are trained to do so; generally, Fire Department and Public Works Staff together. Rio Vista Fire is working closely with Public Works to perform flow tests all hydrants Core Rio Vista as the CIP project continues. For the next several years there will be efforts to become 100% compliant with testing in Core Rio Vista.

Hydrant locations (GIS) are contained in the Fire Department Data Base (Emergency Reporting).

Flow Test results are captured in Emergency Reporting.

#### **The gallon per minute flow and associated hydrant color coding is:**

1500 Gallons per minute or above: **Blue**

1000 - 1499 Gallons per minute: **Green**

500-999 gallons per minute: **Orange**

Under 500 gallons per minute: **Red**

Capped pressured line: **Silver**

Draft Hydrant: **White**

## **Annual Maintenance**

It is the goal of the Rio Vista Fire Department to inspect each hydrant in the City annually. This inspection will ensure the hydrant is visible, readily identifiable and performs to standards in the event of a Fire.

The following procedures will be followed:

1. Notify Water Department via City Hall prior to testing procedures
2. Identify hydrant location/placement/number
3. Ensuring location conforms to the standard of the CFC as it relates to spacing and location
4. Utilize appropriate PPE (safety vest) when located in areas of vehicular traffic
5. Visual inspection, identifying any obvious defects, damage or missing components
6. Provide minimum 36" clearance around circumference of hydrant of all debris; cut vegetation if required
7. Visual inspection of threads
8. Visual inspection for Indication of leakage
9. Operating nut present and in proper working order
10. Open hydrant in slow manner ensuring water flow and clearing of debris
11. Close hydrant in slow manner ensuring absence of water flow
12. Paint as needed (Safety Yellow or equivalent paint )
13. Maintain documentation and forward repair requests to the Water Department

## **Flow Testing**

Flow testing of 10% of City hydrants will occur on an annual basis. Testing may occur in conjunction with Public Works Staff and shall be recorded in Emergency Reporting.

Staff members who perform Flow Testing will follow the procedure as described in **NFPA 291**. After the hydrants have been tested and certified, cap painting and documentation shall be done as described above.

## **Reference Material**

California Fire Code  
NFPA 291  
California Code of Regulations  
Rio Vista Municipal Code

## Hydrant Flow Test Form

Hydrant flow test data should follow the below procedure:

- Contact the **Public Works** department to determine the status of lines in the vicinity [repairs, out of service, excessive load, supply closed, etc...], and to advise the time and location of hydrant testing;
- Record data in Emergency Reporting after completing this form (confirm location on Map).
- Provide a report from Emergency Reporting to public works if requested.
- Provide a report to any requesting party.

Location \_\_\_\_\_ Date \_\_\_\_\_

Test made by \_\_\_\_\_ Time \_\_\_\_\_

If pumps affect test, indicate pumps operating: \_\_\_\_\_

Flow hydrant Location: \_\_\_\_\_

Static Pressure: \_\_\_\_\_ Residual Pressure: \_\_\_\_\_

Discharge Size: \_\_\_\_\_ Discharge Coefficient: \_\_\_\_\_

Flow PSI: \_\_\_\_\_

GPM per diffuser: \_\_\_\_\_

**Calculated Total GPM:** \_\_\_\_\_

Remarks: \_\_\_\_\_

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