

September 9, 2015

Information Paper: Critical Infrastructure and Services Information

As required by law to protect public health and to provide reliable water and sewer service to our customers, Yorba Linda Water District personnel perform and oversee the following maintenance, repair, and regulatory compliance activities on the water and sewer systems each year. These activities are performed by State licensed water system and sewer system operators. The Yorba Linda Water District has been classified by the State Water Board as a water distribution Level 5 facility. Level 5 is the highest classification for water distribution and water treatment systems in the State. Yorba Linda Water District's water treatment system is classified as a water treatment Level 3 facility. It takes many years of documented hands on experience, training and successful completion of several courses and examinations given by the State before a water system operator can obtain their license. In order to maintain these licenses the operator must successfully complete ongoing training courses each year. The District's license to operate is held by the State Water Resources Control Board.

The current value of the Water System is 531 million dollars. The Wastewater System is valued at 258 million dollars. Together, this Critical Infrastructure is valued at 789 million dollars. When the Division of Homeland Security was established, the President declared Water Utility Workers as Emergency Responders. The professionals that operate this system are First Responders just like Fire and Police, and respond 24/7 to maintain this infrastructure and keep our public safe.

Water Production Division:

1. District staff maintains approximately 330 miles of water distribution and transmission mains.
2. 14 reservoirs (Up to 57 million gallons of water storage).
 - AWWA M-42 recommends all reservoirs be inspected/cleaned every 3 years.
3. 10 wells which are inspected daily and monitored 24 hours a day, 7 days a week, 365 days a year.
4. We manage 20 different water pressure zones many of which are monitored through our control room.
5. 12 booster pump stations – Inspected daily and continuously monitored.
6. 261 pressure control valves – Inspected and serviced annually.
 - In 2014 staff repaired 41 pressure control valves.

Mechanical Services Division:

1. The district owns and maintains 76 large pieces of equipment and vehicles:
 - Trucks/Vehicles: 48
 - Backhoes: 3
 - Jetter/Vactors: 2
 - Hydro Excavators: 1
 - Dump Trucks: 3
 - Stationary Natural Gas Engines (Pump Drivers): 15
 - Portable Pumps/Generators (Emergency Response): 4
2. The following maintenance services were performed during fiscal year 2014/15:
 - Over 400 vehicle repairs and services and 20 heavy truck (CHP) "BIT" inspections.
 - We performed 92 oil and filter changes, 46 valve adjustments, 122 portable emissions analyzer tests, 11 source tests, 175 miscellaneous repairs/troubleshooting on our stationary engines.
 - We performed 4,700 AQMD emissions inspections (daily requirement if engine is running).

Water Maintenance Division:

1. The District owns and maintains 3,925 fire hydrants: inspected and serviced annually
 - In 2014 we repaired 97 fire hydrants and replaced 57 fire hydrants.
2. The District has over 5000 dead end water mains and flushes 300 each year in order to maintain water quality and protect public health throughout the water distribution system.
3. We have over 11,000 valves that are serviced every two years.
 - In 2014 we repaired 5 valves and replaced an additional 59.
4. We have 526 Air/Vacuum release valves which are serviced annually.
 - In 2014 we repaired 5 and replaced 5.
5. We currently have 24,653 meters throughout the water distribution system.
 - In 2014 the maintenance division installed 177 new meters and replaced 321 broken or stuck meters.
6. The following water systems were repaired or replaced in 2014:
Water Mains:
 - Repaired: 15.Water Service Lines:
 - Repaired: 44.
 - Replaced: 151.
7. Operation and Maintenance staff were dispatched to our customers properties in response to customer service calls:
During Calendar YR 2014:
 - Customer service calls that required field service work: 1,579.
 - Additional customer service calls that required field service work after hours: 703.*January through July of 2015:*
 - Customer service calls that required field service work: 976.
 - Additional customer service calls that required field service work after hours: 411

Sewer Collections Division:

1. The District cleans and maintains 259 miles of sewer main annually. In 2014 the following services were performed:
 - Video Inspections (CCTV): 52 miles.
 - Repaired/Relines 13 sewer pipes.
2. Sewer Collections staff inspects and maintains 6,545 manholes annually.
 - In 2014 we repaired 43.
3. The District has 2 sewer lift/pump stations which are serviced monthly and inspected weekly.

Water Quality Division:

1. The following water samples and analysis were performed in fiscal year 2014/15:
 - Compliance samples and analysis: 11,688 (State Water Board Required Testing).
 - Special samples and analysis: 4,105.
 - Total samples and analysis performed: 15,793.
2. The District is responsible for establishing and overseeing a backflow prevention program: (State Water Board Required Program).
 - The District is responsible to ensure 3,928 customer owned backflow devices are tested and operating properly each year.
 - In fiscal year 2014/15 all 3,928 devices were tested and the district received the required test reports from County Certified Testers.