

Water Department
April, 2016
Monthly Report

Operational

1. The plant operated throughout the month and complied with all state and federal requirements for water quality and reporting.
2. All distribution system flows and pressure needs, for both fire protection and the water customers, were met.

Maintenance and Improvements

1. The staff performed all required preventative maintenance during the month.
2. Elkhead work by the staff this month consisted of routine maintenance and inspections. The water department staff continued to work with the river district's contractor on temporary repairs to the tower valves stem guides. The staff worked approximately 29.0 man-hours on this project in the month of April. After these repairs were completed the staff refilled the tower and started making increasing release rate changes as directed by the river district until the maximum discharge release rate was reached near the middle of the month.
3. SGM continued to work with the staff on various engineering projects for the city. They included the Lariat Lift Station replacement project, the Barclay and Sandrock Tanks repair project. Both of these projects are scheduled to start in May. The distribution system study for the minimum chlorine residual requirement was also worked on throughout the month with the staff collecting various distribution system and storage tank water samples for analysis at a commercial lab. Also, bench testing by SGM was performed with alternative coagulants for use at the water plant to try and reduce TOC levels, and to determine chlorine decay rates of the treated samples.
4. Phase 3 of the Shadow Mountain Project started early in the month and progressed quickly. This included overland water services being installed by the water department staff in the first block of Sequoia.
5. Due to windy conditions this month one of the large pine trees blew down at the water plant. Luckily it fell away from the plant and did not cause any damage. There were 3 other large pine trees at the water plant that were also dying and could possibly fall, so to avoid any potential damage from them falling/blown down by high winds, the staff had these trees taken down by a tree removal company. All 4 trees were then donated to the Parks and Recreation Department to be used at the "Whittle the Woods" this year.
6. Finally, throughout the month the staff assisted or worked with other city departments, vendors, customers, and contractors as needed. The staff continued to work on building & grounds maintenance, equipment repair, and the cross connection control program.

Distribution System Operation/Maintenance

1. All service lines and water mains were located and marked as required. There were 4 line locates required and completed this month.
2. All work orders, and service line inspections requested or scheduled were completed.
3. The annual fire hydrant flushing program commenced this month with the staff concentrating flushing on the east side of the city. The staff flushed a total of 148 fire hydrants during the month.
4. The valve exercising program was worked on by the staff this month with 8 valves being exercised.
5. The staff repaired 1 water leak on a 2" service line at the Valley Vista Inn this month.
6. Service line issues completed this month by the staff included replacing a leaking curb stop valve.
7. The annual water storage tank maintenance program was completed this month by the staff with the Roundbottom and the South Glen Erie Tanks being drained, cleaned, and inspected by SGM's structural engineer to assess any structural issues that would require repairs.
8. Finally, the staff continued to assist other city departments and contractors as needed. The staff thoroughly cleaned the office area and recoated the floor with an epoxy floor coating material that should hold up better than previous coating systems we have used in this room.

Note: The staff was able to perform their regularly scheduled maintenance this month. They were able to assist contractors, and complete all emergency assignments as required.

Water Production Statistics

04-01-16 to 04-30-16

Effluent Total Flow	= 27,931,000 gallons	Total Chemical Cost	= \$ 7,945.03
Backwash Total Flow	= 841,000 gallons	Total Chemical Cost/Mg	= \$ 276.14
Total Flow	= 28,772,000 gallons	Alum & Ash Cost/Mg	= \$ 164.86

(Backwash Flow % of Total = 2.92%)

The Craig Municipal Water Treatment Plant utilizes water rights for municipal use. These included direct flow diversions from the following:

Craig Irrigation Ditch
Fortification Creek Ditch

Deep Cut Ditch
Craig Water Supply System

Monthly Report

Wastewater

April 2016

A. Treatment – Operation:

1. Operated treatment plant to comply with State and Federal regulations.
2. Performed daily, weekly, and monthly maintenance as recommended in the manufacturer's manuals.
3. Treated average of 979,000 gallons/day of wastewater.
4. Received and treated 12,350 gallons of hauled waste.
5. Aerators were prepped for May installation into the east treatment lagoon.

B. Collection – Operation:

1. 10 man hours used to perform 14 line locates.
2. 24 man hours used to hydraulically clean 3575 ft. of pipe as part of a routine maintenance program.

C. Collection – Corrective:

1. 1 man hour used to respond to a backup complaint at 2161 B Street. Homeowner said basement was flooded. Main was inspected and found to be flowing properly. The main was hydraulically cleaned for good measure. It was determined to be the homeowner's issue.

D. Other:

1. Assisted other departments as needed.
2. Assisted local plumbers as needed.
3. Analyzed Maybell's monthly samples.
4. One of the plant operators obtained his "B" level certification.