

MONTHLY REPORT

To: David Dickson, General Manager
From: Joe Guistino, Superintendent of Operations
Agenda: May 9, 2017

Report
Date: May 4, 2017

Monthly Highlights

Denniston Pump Station and Bridgeport Transmission Main Project – The transmission main is in service and will easily allow pumping in excess of 525 gpm.

El Granada Tank 3 Rehabilitation and Coating Project – Progress is slow due to lack of coordination between the general contractor and their subs. Meeting to resolve outstanding issues scheduled for 9 May.

Source of Supply

Denniston and Pilarcitos Reservoirs were the source of supply in April, supplying approximately 39 MG of water. Denniston Water Treatment Plant (WTP) ran for 27 days and supplied 36% of water in April. It was shut down for 3 days due to high influent turbidity.

System Improvements

District Yard

We are now keeping a supply of cut back (cold patch) in the yard to allow for easier access for temporary patches after off hour main break repairs.

Field Lights

The operators are now equipped with personal safety lights for use during night time repairs.

Backhoe Improvements

The failing seat on the backhoe was replaced during its last service.

New Engineering Specifications

A consulting firm is bringing our engineering specs up to current standards, which will allow for improved clarity when communicating District requirements to contractors when installing new system components.

New Sample Stations

A representative of Steel Source gave a yard presentation of a new sample station design that would be a significant improvement over our existing stations. The new

station is ergonomically designed, protects the sample stream while sampling and provides shelving for bottles and instrumentation during the sampling process. We will be procuring a quantity of these stations in the next fiscal year.

Safety Data Sheets (SDS)

The SDS binders have been updated at the treatment plants.

Other Activities Update:

Meter Replacement Program

There were 53 meters replaced with Badger e-meters in April for the automated metering infrastructure (AMI) program. Of the 53, 48 were Sensus meters, 4 were Rockwell meters and 1 was a replacement Badger meter due to a scratched lens.

Pilarcitos Canyon Storm Repair Mitigation

As you may recall from last month, we are required by the Regional Water Quality Control Board (RWQCB) to design and implement a permanent solution in regards to the emergency repairs to the Pilarcitos Creek stream banks from the storm damage sustained in February. We have retained Questa Engineering for the design and they did submit a satisfactory first draft, which is in review at this time.

El Granada Treefalls

This year's storms also caused a couple of trees to fall in a eucalyptus grove on our property behind El Granada Tank 2. The first treefall resulted in a 2 day power loss to the residents on El Granada Blvd above the El Granada Tank 2. The second treefall had occurred a short time later in the same grove but missed the power lines by only a few feet. It remains for us to remove the fallen trees. I will be petitioning the County of San Mateo for a permit to remove some of the trees in this grove in the new fiscal year.

Interagency Cooperation

A major leak occurred on the Sewer Authority Midcoast (SAM) force main as it crosses over Arroyo de en Medio in April. They made temporary emergency repairs and are considering horizontal directional drilling (HDD) as a permanent fix. We have provided them with a copy of the as-built drawings for the El Granada Pipeline jack and bore at that site.

Crystal Springs Pump 3 Repairs

In February I reported that the shaft casing for Crystal Springs Pump 3 (CSP3) was leaking and needed to be replaced. A contractor replaced the shaft and casing in April. We hired a diver to provide proper alignment with the shaft and casing at the bottom of the caisson. The job went smoothly and the unit will be put in service in May.

Power Outage

There was a power outage on 10 April which shut down the Nunes WTP. A crew responded and got the plant running again. The clearwell sample pump had failed during the power surge and was replaced by the spare unit we always keep handy.

Regulatory Agency Interaction

California Water Resources Control Board (CWRBC)

Sent in the completed annual report on the week of 17 April.

In April, I had to help to clear up some confusion with mislabeled samples and apparent water quality violations. The laboratory had mislabeled the sample results. They cleared up the confusion to the satisfaction of the CWRBC.

Safety/Training/Inspections/Personnel/Meetings

Meetings Attended

4 April – Debriefing on Pilarcitos Roads Project with the Resource Conservation District (RCD) and Randtron

10-13 April – Attended Cal/Nev Section American Water Works Association (AWWA) Spring Conference

19 April – Met with SRT engineer Tim Monahan on Arroyo de en Medio water line locations.

24 April – Met with Pacific Ridge developer on future housing plans

25 April – Webinar on Ferrate use in water treatment for preoxidation and disinfection

26 April – Operations & Maintenance (O&M) staff meeting

26 April – Biweekly status update meeting for Bridgeport Transmission Main and Denniston Pump Station Project

Tailgate safety sessions in April

3 April – Night Work: Reduced Visibility Increases Hazards

18 April – Keep Trouble Out and Let Help in with Access Control Part I

24 April – Keep Trouble Out and Let Help in with Access Control Part II

Safety Committee and Training

Safety Training in April was on Fire Safety. Davis, Donovan, Winch, Jahns, Whelen, Sulzinger, Schmidt, Damrosch and Duffy were in attendance.

Cal/Nev AWWA Fall Conference

I attended the Cal/Nev Section AWWA Fall Conference in Anaheim, California on the week of 10 April. I chaired the Awards Committee Meeting, moderated the annual Section Top Ops Competition, presided over the Awards Presentation, networked with my peers, putting the word out at CCWD will be seeking a

Superintendent in the Fall, and attended talks and discussions on various topics related to drinking water and the operation of drinking water facilities and programs.

Temporary Maintenance Worker

Local resident Ryan Stoll started his employment as Temporary Maintenance Worker on 24 April.

Webinar

On 25 April, Treatment Supervisor Donovan, Senior Operator Schmidt and I watched a webinar titled Integrating Ferrate into US Water Treatment Practice. This is an up and coming product that may allow us to discontinue pre permanganate application at Denniston WTP as well as allowing pre oxidant dosing at Nunes to improve the coagulation process and control growths of algae in the sedimentation basin. Use of permanganate aggravates brown water events in the distribution system if flushing isn't done on a frequent basis.

Projects

El Granada Tank 3 Rehabilitation and Coating Project

The project has been running slow due to lack of coordination and communication between the general contractor and the subs. The project should be complete by mid to late June. We are scheduled to meet with the general contractor on 9 May to discuss their poor progress and liquidated damages.

Denniston Pump Station and Bridgeport Transmission Main Project

The Bridgeport/Coral Reef Transmission main is installed and in service. We had a shutdown on 12 April to tie in the PRV at the end of Bridgeport and the main was put in service on the week of 17 April after disinfection and bacteriological testing. We were able to bring the treated water pump up to 525 gpm with plenty of room to go higher. Pressures in Clipper Ridge were in excess of 130 psi at this flow rate and so it was brought back down to 400 gpm until the PRVs are put in service and Clipper Ridge isolated at pressures around 90 psi. PRVs will be put in service on the week of 8 May.

The pump station is progressing according to schedule. The job was shut down for a few hours when a red legged frog decided to jump in the construction zone on 12 April. The biologist safely returned to frog to more suitable environs.

Stone Dam Pipeline

Environmental consultant AES has been hired to provide us with a biological and wetlands survey of the proposed pipe locations to determine if they will be an issue in the progress of this project. We expect their report by the end of May.