



**PUBLIC WORKS AND UTILITIES DEPARTMENT
MONTHLY REPORT FOR
OCTOBER 2019**

***Note: New items and updates from last month's report are in bold print.**

PUBLIC WORKS

Natural Gas Distribution:

- Gas system Audit has been completed
- Some employees have received training and have been evaluated to be able to work on the gas system
- **Installed 3 new gas service lines for D.R. Horton**

Water Distribution:

- Installation of 38 radio read water meters have been completed to help with re-reads in the area of Route 43
- **Repaired water leak 450 Buckeye Springs**
- **Repaired water leak 255 El Camino**

Wastewater Collection:

- Cleared sewer blockage Springbrook St.
- Cleared sewer blockage 4th to 5th Durian /Cedar Alley
- Cleared sewer blockage 100 blk Monroe/Jackson Alley
- **Cleared sewer blockage 400 blk W. Elm**
- **Cleared sewer blockage 6th and Cedar**

Sidewalks:

- Section of sidewalk in front of 308 Cabrillo Dr. has been repaired

Parks:

- New park tables, trashcans, BBQs, drinking fountains and light poles have arrived for Sandalwood and Centennial Parks - We have started installing new trash receptacles in Sandalwood and Centennial Parks all new park equipment should be installed by end of September.-Installed 4 benches 2 at each park Sandalwood and Centennial. Concrete pads for tables and Awning have been poured for Sandalwood park. Centennial park to follow. **Finished installing Awnings at Centennial and Sandalwood Parks.**

Miscellaneous:

- Started removal of excessive red curb markings in Posa Chante Area. Should be completed first week of October. **Completed**
- 7 Dead trees have been removed with more to follow
- **Installed new vehicle restriction signs at both centennial and sandalwood parks**
- **Painted blue stripe on 6th Street**
- **Repaired section of 300 blk W. Polk St road patch 83 feet section**
- **26 Dead trees have been removed along Monterey medians**
- **Started striping new diagonal striping along Cedar from 5th to 7th**

Targeted Efforts to Enhance City Image and Business Appeal/Attraction:

No activity for the month of **October**.

UTILITIES

- Northwest Booster Station – P20 is down. P20 motor & pump have been sent out for repairs. Repairs should be complete mid-October. On going
- Northwest & Oil King Booster Sta. looking into replacing old air compressors and surge tanks with new equipment. Tri City Eng. now working on this. Getting info for them.
- City wide fire hydrant flushing. **Will began sometime in November.**
- Oil King Booster Station – P17 is down. P17 motor & pump have been sent out for repairs. Waiting for council approval to move forward with repairs. Council has approved repairs. Repairs should be complete mid-October. On going
- Crews have cleaned and weeded around the all the reservoirs and booster sta. Complete
- Cathodic Annual Testing is being done on Palmer & Calaveras Reservoir September 25, 2019. **Has been completed**

PUBLIC UTILITIES COORDINATOR

MyCivic

I was assigned to coordinate with MyCivic to develop a mobile app to facilitate better communication between the City and citizens. This application is intended to supplement our online presence alongside our website.

- **MyCivic App has been launched.**

CivicReady

Assigned to find a solution to requirements from the state to have an emergency notification plan (boil water notices, water events, natural gas emergencies, etc). CivicReady is an extension to our website, so it is an easy fit.

- Submitted MOA application to FEMA.
- **Coordinated efforts for City Manager, Fire Chief, and myself to take necessary classes to be able to submit emergency notifications.**
- **State coordinator has received application and submitted it to FEMA on our behalf.**

Water Plant/Wastewater Video Surveillance

I was asked to build out a site-to-site networked surveillance system for both the water plant and the wastewater plant.

- Received response from Alpha Video Surveillance, Hoffman security, and Royal Security.
- Created and submitted RFP to local surveillance vendors. Bid will close on October 18th.
- **Received responses from Cell Plan Technologies and Global Solutions Group**
- **Proposals are under review**

SCADA Updates

- **Provided updates/maintenance to systems including: PC's, iPads, and VPN interface**

Cross Connection Control

- Mailed notice to inspect letters to 61 businesses.
- Received a few responses from backflow testers and business owners
- **105 Backflows have been tested.**

Natural Gas System

I have been working with the Public Works department and Dan Bergman to help with the Natural Gas Audit of 2018. Additionally, I have been assisting with the response to PHMSA regulatory requirements.

- Helped facilitate natural gas audit as a subject matter expert
- Created procedures for testing for electrical isolation
- Edited O&M to reflect new processes
- Identified and implemented changes required OQ training and evaluation in regard to electrical isolation testing
- Created a list of all, natural gas meters, in sequence, that are connected to steel pipeline.
- Submitted responses to PHMSA/CPUC regarding actions taken to comply with NOA's
- **Trained staff on how to conduct electrical isolation test**
- **"Meter Short Survey" is in progress**
- **Sent various pieces of equipment for calibration/repair**

Public Works iPads

I have been working on an ecosystem of iPads for Public Works. These are intended to serve several purposes. Primarily, they will act as a conduit for information between the Finance Department and Public Works. All service orders will be submitted via an iPad App. Additionally, it will serve many other application workflows. For example, the new 'Report An Issue' module in our newly launched App.

- **Setup 6 iPads with required programs**
- **Trained staff on operation of equipment**

WATER TREATMENT PLANT (WTP)

Working on card lock system for rolling gates, control room, shop, carbon room and rapid mix room. Charles Seders Construction is installing card lock system for the roll gates & control room doors. Work should begin July 8. New doors have been installed to the lab building. Working on running Electrical for the roll gates card read security system. Project should be completed by end of September. **On going**

UCMR4 Sampling is schedule for March and once every ¼ after that for the rest of the 2019 year. BSK Lab is doing the testing. Next testing dates will be September 13, 2019. Testing was done.

Rosemounts and tank level sensors are being calibrated by Solomon Electric. This project hasn't started yet. On hold.

Solomon Electric is working on getting quote for backup Generator for the Water Plant. **On going**

Chemical room flooded on May 3 at 11pm. All pumps, motors and electrical panel were damaged in the flood. Solomon Electric is building new Electrical & PLC panels for pumps and motors to work with SCADA system. Project should be completed by end of August. Project has been completed and back online working with SCADA system. Doing some fine tuning on new equipment.

Patriot Environmental Services has started to haul off some of the old chemical that was used years ago and not being used now (Carbon, Sulfur Acid, ect.). All chemical should be removed by the end of October.

Patriot Environmental Services will start to haul off some of the old chemical that was used years ago and not being used now (Carbon, Sulfur Acid, ect.) starting November 4, 2019

Patriot is also getting us a quote to haul off what is left in the fluoride tank and to wash it out. **Chemicals should be removed and tank washed out by end of November.**

Surveillance security camera system getting quotes for WTP & WWTP. Got a quote back from Alpha Surveillance. Larry has put out an RFP for Surveillance system.

Westland Canal did some Copper Sulfate treatment to the canal on August 21, 2019. Completed and everything went great. Next schedule treatment for Copper Sulfate is September 24, 2019. Has started and should be complete on September 25, 2019. **Has been completed**

Decant pump for Basin 1 & 2 has been repair and will be put back in service end of September. Having alignment problems. **Decant pump & motor have been install and put back in service**

P4 pump is out of service. Check valve went bad. Waiting on new valve replacement. Installed a new check valve P4 back in service. Complete

P6 wash water pump had a leaking check valve. Installed new 6" check valve. Complete
Installed new air vac valve as well.

P7 wash water pump had a leaking check valve. Installed new 6" check valve. Complete
Installed new air vac valve as well.

Univar – Working with company to remove acid tank. **Waiting for date to remove acid.**

P15 motor - Vibration test was done by Electric Motors. Bearing worn out. Need to send off for repairs.

Fresno County Health came out and did inspection of the water plant.

Ammonia Safety Alarm System is 60% complete.

Basin 3 taken down for annual maintenance

WASTEWATER TREATMENT PLANT (WWTP)

Drying beds:

Other items at Wastewater Plant:

- City crew working on getting pond 3 & 4 cleaned by spraying and burning the weeds, cattails and small trees. Ponds 3 & 4 starting to look good, but still have spraying and burning to do. On going
- Old Rifle Range Tires – Waiting on Shamrock to sign city contract. **All tires have been removed and project is complete.**
- Surveillance security camera system getting quotes. Larry sent out RFP for surveillance system
- Working on getting Clarifier and Digester repaired and back in service. Crew has been flushing out lines and repairing diffusers on the digester. Digester has been repaired and is ready for startup.
- Clarifier has had some repairs done as well. Railing has been painted, all metal and the walls have been pressure wash to install protective coating and sweep arm has been taken down and is being worked on by West Hills Machine for repairs. Waiting on quotes for new weirs and sealant. Repairs are still being done on the Clarifier. **Waiting on the arm repair.**
- West Hills installed some new locking mechanism on the C- trains. Complete
- **Effluent water is being directed to the radio field now.**
- **Garlic plant – Took water sample to see what is in the water before WWTP takes water from them.**

CITY ENGINEER

Project Status Update as of October 30, 2019:

1. Cambridge Signalization
 - a. Caltrans has approved the Encroachment Permit.
 - b. The Right of Way Package was approved by Caltrans and the request for authorization of Construction was submitted on August 14th. Once we receive authorization for construction the project will be put out to bid.
 - c. **Funding is exhausted for 18/19 FFY. Expedited Project Selection Procedure concurrence letter was approved by FresnoCOG on September 26, 2019 to move the CON portion of project to 19/20.**
 - d. **Request for authorization of Construction was re- submitted on October 14th. Once we receive authorization for construction the project will be put out to bid.**
 - e. Construction anticipated Fall/Winter of 2019.
2. Rule 20A Undergrounding
 - a. City Engineer working with PG&E to underground overhead utilities on Elm Avenue from Cambridge Avenue to just south of Cherry Lane.
 - b. Project moving along slowly and is still years away from construction.
 - c. **Requested update from PG&E awaiting response.**
3. Phelps Ave Improvements
 - a. Bids were open August 27th and project awarded at September 5th Council Meeting. The project is anticipated to begin construction on September 30th.

- b. Plans have been resubmitted to Caltrans and we are awaiting comments. There were some minor comments on the last submittal that were addressed. The encroachment permit will be approved pending State Clearinghouse approval of Notice of Exemption.
 - c. **State Clearinghouse approved Notice of Exemption and Encroachment Permit approved by Caltrans.**
 - d. **Project Contractor obtaining Rider Permit approval from Caltrans. The project is anticipated to begin construction on November 4th.**
 - e.
- 4. ATP 2017 Cycle 3 Sidewalk Gap Improvements
 - a. City was awarded additional funds for the project for a total grant amount of \$1,284,000 and a local match of \$175,000.
 - b. The project has been given an extension of 20 months to work with Caltrans and Fresno Council of Governments to find the best solution for the project.
 - c. Meeting with the School went well and the design is taking the information from the meeting into account.
 - d. **Additional Topographic survey in progress and design is underway.**
- 5. ATP Cycle 4
 - a. City was awarded a grant in the amount of \$951,360 with a local match of \$66,360.
 - b. The request for environmental studies was submitted to Caltrans on August 8th. The request will be on the October CTC agenda. Once the request is approved an RFQ will be released for Environmental Studies on the trail segments adjacent to the creek.
 - c. **The request for environmental studies was approved by the CTC at the October Meeting. An RFQ is being prepared and will be released for Environmental Studies on the trail segments adjacent to the creek within the next 30 days**
- 6. RSTP - Forest/Truman from 1st to Elm
 - a. City was awarded additional funds for the project for a total grant amount of \$1,400,000 and a local match of \$125,000.
 - b. Caltrans has approved the Encroachment Permit.
 - c. Project released for bidding on September 10th with a bid opening October 3rd.
 - d. **Bids were opened October 3rd and project awarded at the October 10th Council Meeting. The project is anticipated to begin construction on November 18th .**
- 7. CMAQ - Paving of Various Alleys Ph. 3
 - a. Topographic survey has been completed and design is underway.
 - b. **Construction has been put off until next fiscal year due to wanting to replace underground utilities in the alleys.**
- 8. Water Treatment Plant Permanent TTHM Reduction Project
 - a. With Regional Water Resources Control Board review and approval permanent acid storage and feeding facilities changed to liquid CO2 for plant operator safety.
 - b. **Design of permanent facilities in progress.**
 - c. **Anticipate construction in Fall/Winter 2019.**
- 9. WWTP Concrete Yard Boxes and Ponds Rehabilitation Project
 - a. Bids opened on November 8, 2018 and they came in over budget.
 - b. **Working with the City to reduce project scope and re-release for bidding.**

10. City Standard Updates

- a. City Engineer has been directed to begin updated the City Standards to comply with recent standards. The city standards were last updated in 2006.
- b. Water Standard Plan update to backflow preventer started.

DIRECTOR

- **Street Light Acquisition:** Exchanging information with Tanko Lighting and should be receiving a report in the next 30 days.
- **TTHM:** Executed updated Contract for Services with City Engineer and MKN Consulting to finish the plans and specifications for the TTHM Project due to the recent change in engineering support services. Site meeting with Frisch and MKN occurred in September and final design is underway.
- **Derrick Bypass / Reservoir Assessment:** Staff released an RFP for tank inspection services in order to understand the level of repair needed on the tank. Proposals are due October 31st.
- Coordinating Water Plant staff and the City Engineer to continue the SCADA project moving forward with Frisch Engineering.
- **Coalinga Water Plant PSM/RMP:** Environmental Permitting Specialist met with plant staff and is currently developing all PSM/RMP programs for staff review in November.
- **County Inspection (Water Plant):** Fresno County department of environmental health inspected the water plant and provided a correction plan which staff is currently working on to complete in the 30 days given by the County.
- **Secondary WWTP Access Road:** The City Engineer is reviewing the location and will then begin working on obtaining the appropriate easements for dedication. Property owners will need to be contacted in the near future.
- **Center Median Rehab:** The City Council is expected to approved a budget allocation and scope of work at the November 7th Meeting and then staff will proceed with design and bidding.
- Staff has had back and forth conversations with Caltrans about the possibility of a school zone designations near the Faith Christian Academy School.
- Abandonment of the easement located on Monroe Street near Faith Christian H.S has a public hearing scheduled for November 7th.
- Staff reviewed grant writing proposals and the recommended firm will be considered at the November 7th CC Meeting.
- Grant writing proposals have been executed and grant writers are currently preparing applications for CMAQ and STBG Call for Projects due in November. Projects consist of a full reconstruction of Polk Street from Elm Ave to Monterey and additional trail segments from the trail master plan.
- Working on ordinances and other necessary documents for submission to the State Controller's Office in order for the City to be subject to the Uniform Public Construction Cost Accounting Act.
- Working in standardized informal and formal bidding procedures for smaller public works projects to expedite project delivery.
- Submitted the 2010 Urban Water Management Plan to State of CA with approved resolution.
- Working on RFP for the completion of the 2015 Urban Water Management Plan so that the City is eligible for Federal and State grants and loans for water projects.
- **State Parks Per Capita Program:** Resolution has been submitted to State and staff is awaiting allocation numbers from the State.
- Wastewater Consultant and City Engineer are working on opportunities for future uses of waste discharge, capital needs, and grant opportunities.
- Working with MSDSONline to consider a cloud-based program to house all safety data sheets for the City. – Decided not to proceed at this time.
- Working with Staff to develop the Adopt-A-Spot program guidelines and policies.
- Working with the Garlic Plant owners to find solution for storm water discharge into Industrial Park basin.

- Continued discussions with Staff, IGS and City Engineer on developing a long-range Capital Improvement Program for the Water Infrastructure.
- Developing a list of amenities for the parks related to the Per Capita Parks Program
- City Engineer working on bid documents for the repair of the Surge Tanks for the water plant. Should bid project in December.
- Coordinating with Water and Waste Water Plant Staff to get costs related to back up generators at the WTP and WWTP and various booster stations and pumps.
- Working with the City Engineer and PW's Staff to finalize design and cost estimates for a splash pad at Frame Park. Costs Estimates and Scope of Work is expected to come before the City Council in December.