

# Lafayette Water Works Plant

Water Our Most Precious Resource

June-22

## Operations

### Canal

Assisted Maintenance with north gate issues  
Meeting with Maintenance on ideas for chlorine system plumbing, etc.  
Assisted Maintenance with further north gate issues  
Assisted painters with Canal #4 and Canal #1  
Worked with Maintenance foreman on getting Clor-Tec machine running again  
Trained Operations/Maintenance staff procedure for switching to chlorine backup system  
Meeting with Chief/Maintenance Foreman on dealing with Clor-Tec system issues, planning ahead  
Got with chemical supplier for emergency delivery of 12.5% bleach totes  
Operators/Maintenance techs worked around clock to keep Clor-Tec system going after hours  
Set up chlorine backup system with Maintenance to give Clor-Tec machine a break  
Spoke with Frakes project manager about setting up analog output spares for use with chlorine backup pumps  
Worked with Maintenance Foreman on figuring out how to get another 4-20mA feed to run both chlorine backup pumps at once  
Operators ran chlorine tests all day to monitor feed rate  
Got with Puritan to have greensand filters serviced in case it is causing problems with Clor-Tec system  
Got with Frakes engineering on wiring schematic to run both chlorine backup pumps at the same time  
Troubleshoot phosphate pump issue of only pumping half the necessary dosage rate  
Retrieved and washed out 55gal drums and worked with maintenance on transferring oracle for removal of existing oversized tank  
Worked with Maintenance to move things around and move oversized oracle tank out of bldg., replaced with 800gal temporary tank  
Removed old chlorine safety data label off of 800gal oracle tank and replaced with proper label

### Glick Station

Assisted Maintenance with SCADA and running Glick #5 for Ortman to bacteria test well  
Meeting with Chief on possibility of keeping totes of 12.5% chlorine at Glick to store excess chlorine if tank can't hold full delivery  
Got with purchasing manager on ordering chlorine for Glick

### CPHSS

Got with IT on battery backup notifications

### Murdock Park

Conference call with Frakes on how to automate Murdock Park and issues we may have with existing SCADA hardware/software  
Worked with Frakes/Bowen/BL Anderson/Brand Electric on equipment feedbacks to SCADA, decisions on alarms needed/automation  
Further work with Frakes on equipment feedbacks  
Spent time with BL Anderson and Cla-Val on control valve operation, manual operation, associated equipment and maintenance  
Operations Foreman went down into new reservoir, recorded video of inside of tank and took pictures before it is filled for testing

### Elevated Towers

Turned on altitude valve and shut down bypass at Union tower after painting/repairs  
Researched transducers for replacing possible faulty one at Plaza South  
Spoke with engineering firm about water tower levels during a flow test they did

### MISC

Got with Chief/Fleet on brake lines going out in truck #433  
Got with purchasing manager and tank distributor on tanks quote and PO  
New operator trained for evening shift  
Reached out to distributor on chemical feed skid info  
Meeting with Chief on new hire training process  
Got with IT on getting new operator PC account set up  
Sent PO to HP Thompson and tank manufacturer for new chemical feed tanks  
Explained emergency call procedures, service line blow off valve, low pressure, and water heater shutoff valves to new operator  
Worked on MRO with lab technician and troubleshoot hard drive issues  
Got with IT on email attachment sending issues  
Assisted Purdue student with lead service line and PFOS testing questions  
Assisted Maintenance with turning wells off for chlorine repair  
Put together chemical order to stay stocked while purchasing manager is off work  
Working on email to Frakes Engineering on adding more pump relays for duplex pump systems  
Responded to pump skid distributor with chemical concentration info, etc.  
Got with IT on getting Frakes Engineering remote access for SCADA updates  
Trained operators on using WIN911 alarm test SCADA feature to test alarm functionality each night  
Got with Maintenance and put together parts and materials list to keep stocked  
Worked on Operations payroll issues with administrative assistant  
Ongoing communications with chemical distributor on emergency deliveries of product due to ordering issues  
Got with purchasing manager on Tech Connect renewal agreement with Rockwell/Kirby Risk for SCADA  
Got with tank distributor on tank specs and nozzle placements for new tanks to be manufactured

### After hours and weekend service request calls that are handled by our System Operators and On-Call personnel.

*Average pumping: 12.4 mgd*

*Maximum Pumping: 13.7 mgd*

*Minimum Pumping: 10.9 mgd*

### Lab

Monthly MRO report.  
Monthly Total Coliform Report.  
Worked on Lead and Copper sampling coming up.  
Collected & tested 70 distribution samples for TCR Report.  
Collected & tested 5 distribution Fluoride split samples for State NaF report.  
Helped train new operators in lab.  
Made NaF Reagents.  
Data Entry

## Maintenance

### **Canal**

Changed oil in all well motors at Canal (9 Wells)  
Replaced packing in Well #8  
Repaired and replaced part of the Chlorine line. This was on overtime  
Replaced fan in men's restroom in Administration Building  
Adjustments to north gate and greased  
Repaired leaks in Chlorine line (Multi repairs done different days)  
Replaced o-rings in backflow device for Oracle  
Glue and replace all new parts for Brodel Chlorine pump  
Adjustment on walkthrough gate back of the inventory building  
Replaced capacitor and fan motor AC unit Electrical room Admin. Building  
Cleaned all pumps in chemical feed area  
Trouble shoot Genset #1 due to failure during power outage (Duke 06/22/22)  
Worked on the Hypo Generator  
Changed oil in the Phosphate pump  
Replace Freon in AC unit Administration building  
Repaired AC unit on Administration building  
Installed new Oracle tank in Chemical feed room Operations building  
Removed large holding tank in Operations building  
Changed oil in Genset #1  
Worked on the keypad South gate  
Cleaned coils on the AC units and replaced filters on all Units  
Replaced hose in brodel pump (O/T)

### **Glick Station**

Worked on Safety berm at glick to protect valves  
Changed oil on the well motors #1, #2, and #3  
Flow meter cleaning (was weekly now as needed)  
Disassembled and replaced diaphragm Well #5 (3 day Job)  
Replaced Chlorine inlet and outlet lines at Glick pump station  
Glick Chlorine leak (overtime)  
Cleaned all pumps in chemical feed building Glick  
Replaced pipes on the drain back well#5  
Unlocked towers for Ortman

### **CPHSS**

Gathered and delivered all tools and equipment to park to change oil in gensets  
Changed oil in the Genset at the park  
Added antifreeze in the genset at the park

### **Water Towers**

Replaced locks on the steel water towers due to decay of the old ones

### **Misc.**

Pick up and delivery of vehicles to and from Fleet  
Fire extinguisher checks (monthly)  
Boiler checks (weekly)  
Run gensets (weekly)  
Cleaning of the Operations Building (weekly)  
Departmental Safety meetings (monthly)  
Hypo-Generator not working properly Holly J. and Jim F. was on Overtime  
many hours and people this week  
Check all locations Daily  
Entered the Caucus report for previous month (Holly)

## Construction

Installed 14 New Water Services  
Repaired 2 Broken water mains / One hit by contractor  
Replaced 1 Fire Hydrant  
Repaired 5 Meter pits  
Updated 5 water services to the main to remove lead service line  
Repaired 2 service lines hit by contractor  
Repaired 2 shut offs  
Retired 2" service line  
Made 3 Service taps  
Cleaned and Sanitized breakroom/organized work trucks, backhoes and dump trucks Safety training: Personal Protective  
Equipment  
**Total Locates performed-1290, 62 were emergency calls.**

**Water Facility Inspector**

Attended 1 Precon meetings  
Assisted Customer Service  
Laserfishing files  
Assisted Construction (1)  
Worked on punch list  
Bacteria samples 10  
Flushed 9 systems  
Worked on fire system forms  
Reviewed Prints  
Worked on cleaning up my job board  
42 site inspections  
Performed 4 meter pit and meter inspections  
Turn on (22)  
Hard Flush (1)  
Dechlorination witnessed (1)  
Filled mains (2)  
Hydrostatic Test witnessed (7)  
Turn offs (21)  
Worked on paper work  
Chlorination witnessed 1  
Training Event 1  
Fire Hydrant Inspection 3

**Backflow Inspector**

Performed 31 Inspections  
Continuing to update BSI-Online  
Attended Permits meeting  
Reviewed Prints  
Delivered 1 Letter to Install a backflow assembly  
Covered Operations shifts  
Cross-Trained In Operations for the morning mixing and data entry  
Worked on cleaning up the backflow portion of Laser fiche  
Updated MyGIS and Arc-Map  
Assisted ZF (TRW) with their Fire and Domestic water systems mapping and configuration

**Customer Service**

Customer Service Field Techs responded to the following requests/services:  
Service Orders completed:1401  
Meters changed:342  
Dials replaced:6  
Customers disconnected for non-payment:250