

**Lafayette Water Works Plant**  
**Water: Our Most Precious Resource**  
**March-25**

**Operations**

**Glick Station**

Ran Oracle usage calculations and pulled measurements for new storage tanks  
Hauled fluoride waste to Renew for disposal  
Meeting with staff on a solution to keep bags from falling into mixing tanks  
Ongoing work to get station prepared to run after construction work  
Ran chlorine dosage calculations and dialed in new chlorine pump skid  
Meeting with Wessler, Reynolds, and Water Solutions on double wall tank implementations  
Worked with Mains foreman to get new chemical feed lines primed, adjust dosing  
Trained maintenance tech on morning operations duties at Glick  
Troubleshoot dosing issues and began running station after-hours  
Ran dosage calculations for Oracle system and confirmed accuracy with Water Solutions  
Broke down pallets and construction project junk around building, took good pallets back to Canal  
Cleaned up and organized construction site outside of building  
Got with ProMinent on linear curve calculations to run Oracle pumps at higher stroke percentage  
Took apart old pump mounting fixtures and set out for collection  
Met IT to install temporary network switch after existing switch failure  
Troubleshoot issues with chlorine pump skid  
Troubleshoot more issues with chlorine dropping out, analyzer issues, and well #5 failures  
Cleaned fluoride saturation tank and settling tanks  
Cleaned analyzer y-strainer and calibrated chlorine analyzer

**Murdock Park**

Checked on fire alarm

**MISC**

Updated daily field sheets with VFD data collection fields for booster stations  
Trained maintenance tech on operating SL1000 multimeter  
Completed February MRO and submitted to State  
Worked on DNR and IURC reports  
Got with Wessler Engineering on lead service line inventory public access directions  
Added new required lead and UCMR5 language as well as lead service line directions to 2024 CCR  
Ran dosage calculations for Oracle system and confirmed with Water Solutions  
Completed 2024 CCR report  
Responded to questions from Evonik process engineer and tentatively planning future tour  
Took pictures, labeled, and sent Steve ProMinent equipment serial numbers for asset list  
Looked into Tate and Lyle 2024 usage with UBO director for IURC report  
Confirmed IDEM's records for existing wells and tanks  
Put together spreadsheet of failed samples and upstream/downstream sample sites  
Got with IDEM for direction on responding to failed samples  
Updated operator work log and relocated file for easier access  
Reviewed PFAS claims portal email and followed up with Steve

Lab tech collected 15 repeat and upstream/downstream samples from failed sites  
Got with IDEM on direction for dealing with business closure at repeat sample site  
Worked with Maints foreman on updating IURC cleaning/testing/GPM data  
Fixed damaged Glick daily field sheet formulas  
Reached out to Element for 2nd quarter PFAS testing quote  
Lab tech collected source trigger samples and 1 more repeat sample from distribution site  
Took truck #461 to IT due to modem issues  
Updated hydrant painting spreadsheet and made available to operators  
Picked up truck #434 from Fleet  
Took truck #461 to Fleet due to modem issues  
Responded to IDEM on questions about Canal and Glick wellfield, separate or single wellfield  
Cross-training operators on lab testing framework and paperwork  
Cross-training operators on bacteria sample collection and paperwork  
Got with Godlove to make sure they can accommodate volume of source trigger samples required  
Cross-trained service tech on testing framework and lab monitoring spreadsheet  
Cross-trained service tech on bacteria sample collection and paperwork  
Got with IDEM on direction for two failed source trigger samples  
Laminated booster pump SOPs and new ammonia mixing chart for Glick  
Got in touch with Besse Water Solutions and got quote on bacteria sampling  
Took truck #461 to Lafayette Electronics and then back to Fleet, ongoing modem issues  
Put together positive bacteria response plan spreadsheet  
Completed DNR report and sent to supervisors for approval  
Collected distribution fluoride sample and shipped to Health Dept.

**196 after hours and weekend service request calls that are handled by our System Operators and On-Call personnel.**

Average pumping: 6.4 mgd  
Maximum Pumping: 8.7 mgd  
Minimum Pumping: 3.5 mgd

## **Lab**

Monthly MRO Report.  
Monthly Total Coliform Report.  
Extra Cleaning in Lab  
Collected & tested 80 distribution samples for TCR Report.  
Collected & tested 4 distribution Fluoride split samples for State NaF report.  
Reagents made.  
Training Operators in the Lab.  
TC repeat samples and source samples done.

## **Maintenance**

### **Canal**

Replace O-rings 2in valve Well House #7  
Replace 3/4in Valve (Oracle Day Tank)  
Repair Chlorine Vent Tube On Roof Top (Metal Supports)

Measure 36in W. Main In Vault For Paint  
Install New Outlet Cover Well House #8  
Install Vice In Meter Building.  
Replace Door Latch (Operations Front Door)  
Fill Sink Hole In Well #10  
Replace Air Relief Clay Valve 3in Well House #7  
Clean Operations Building (Weekly)  
Replace VFD On HVAC Unit Motor Admin Building  
Remove salt Spreaders And Plows (412-1130)  
Clean Hypo Machine (Weekly)  
Put Mulch Down Around Trees  
Make Table Tops For Admin. Tables  
Clean Admin Building upstairs Office  
Remove Winterization from Wells #1-#5-#7-#8  
Hook Over Boarding Hose To Well #2  
Remove Winterizatoin#2  
Replace 1in Valve on Hypo Machine  
Replace Key scan SE. Door At Operations Building  
Install Door Stop Admin. Building  
Change Out UPS In Admin. Building upstairs (Back Flow Office)

### **Glick Station**

Open Line Valve Glick#1  
Adjust Packing #1  
Check For Leaks In New Vault  
Repair Road Into Well Field  
Adjust Packing #6  
Cleaning Flowmeter (Monthly)  
Remove Winterization and Add Oil to Well#5

### **Murdock Park**

Shut Down Dampeners on HVAC Unit  
Building Step For Generator

### **Water Towers**

Install Two New Outside Lights Plaza South  
Trim Trees And Mulch Plaza South  
Install New Battery For Security Touch Pad Union Tower  
Remove Old Padlock From Gate Union Tower  
Clean Floors Plaza South  
Clean Floors Hagerty Tower

### **MISC**

Pick Up Trash All Locations  
Build Extension Platform On Table Jack

Adjust Gate Union St. Tower  
Work On Press Washer (Drain gas and Replace Fuel Line)  
Install Tank Straps In Unit 436 For Cutting Torch  
Haul Millings To Parks Dept.  
Fire Ext. Monthly  
Safety Meeting (Blood Born Pathogens)  
Check Batteries (Security Touch Pads All Locations)  
Run Locations (Daily)  
Worked With Ortman 3/19/25 (Pat)  
Clean Maintenance Units 422,424  
Pick up New Well Motor From Kirby Risk  
Run Gensets (Weekly)  
Check Well Depths (Weekly)  
Fleet/Equip. Transfer (As Requested)  
Caucus Entry (Monthly)  
Mowing All Locations  
Check Oil In All Maintenance Units (Weekly)  
Snow Removal (As Needed)  
Flushing Twice A Year  
Escort Reliable Exterminators To all Locations (Monthly)  
Put Oil in New Well Motor/ Install Spout  
Pick Up Over Boarding Trailer From Haggerty Tower  
Pick up Sniffer From Renew For Various Confined Area Projects And Return When Finished

### **Construction**

Installed 5 New water services  
Repaired 7 Broken water mains  
Replaced 1 Fire Hydrants  
Repaired 4 Fire Hydrants  
Repaired 0 Service lines hit by contractors  
Repaired 1 Broken shutoff valve  
Made 1 - 2" Service tap/ 3 - 1" service taps  
Starting dirt work, replacing driveways and sidewalks from broken mains  
Cleaning and Sanitizing Breakroom/ Bathrooms / Organized work trucks-backhoes-dump trucks  
Safety Training: Bloodborne Pathogens

**Total Locates performed-885, 38 were emergency calls.**

### **Water Facility Inspectors**

Fire Hydrant Inspection 2  
Precon 6  
Assisted Construction Repairing Valve boxes 2  
Worked on punch list  
Performed 0 Bacteria Test  
Flushed Mains 2  
Worked on fire system forms  
Reviewed Prints

Fire Hydrant's Painted 0  
75 site inspections  
Performed 24 meter pit and meter inspections  
Turn on 7  
Hard Flush 2  
Witnessed 0 Hydrostatic Test  
Turn off 6  
Filled Main Line  
Chlorination Witnessed 0  
DE Chlorination 0

### **Backflow Inspector**

Performed 16 Inspections  
Attended ADA Meeting  
Trained Parks staff on Well Head Protection  
Attended Water Works Master Plan meeting  
Continuing to update BSI-Online  
Reviewed Prints  
Performed 1 Site Survey  
Worked on cleaning up the backflow portion of Laser fiche  
Updated MyGIS and Arc-Map  
Trained Clint Moore in Cross Connection Inspector duties

### **Customer Service**

Service Orders completed: 1250  
Meters changed: 7  
Dials changed: 8  
Customers Disconnected for non-payment: 551  
Meters Tested: 10