

# STAFF REPORT

## *City Council Consent Item*

---

**DATE:** April 17, 2023

**TO:** Honorable Mayor and Council Members

**FROM:** Brendan Byrd, Public Works Director/City Engineer

**SUBJECT:** Public Works/Engineering Department Monthly Report

**STAFF RECOMMENDATION:**

Receive report as an informational item.

**EXECUTIVE SUMMARY:**

**Public Works Director/City Engineer**

Police Facility Remodel Project

Work on the police facility remodel project has continued through the last month, with the contractor working each day during that time. To date the majority of the building demolition is complete, including all walls and wall finishing's, ceilings, flooring, and utilities. Two other primary focuses of the contractor over the past few weeks have been prepping the pool room for the new concrete floor, and installing new plumbing, in the existing concrete floor (see photos inset right). By the end of the week of April 10<sup>th</sup>, staff anticipates having the pool and hot-tub room completely covered in new concrete.



While the contractor has been working, staff's efforts have focused on construction management and inspection. Staff have been working through various submittals and contractor requests for information, in addition to documenting daily construction activities and guiding design revisions.



In addition to construction management, staff have also been working closely with Police Department staff on the radio communications upgrades required for the project, and have worked with AT&T and PG&E on service applications. Lastly, staff also submitted a supplemental application with PG&E that would allow the City to install solar panels on the facility under the outgoing NEM2 rate structure, which when installed could result in significant electrical usage savings at the facility in the long-term.

### Water Tank Coating Project

Staff finalized contracting and bonding with the contractor in early April, and participated in a pre-construction meeting. Staff anticipate the contractor mobilizing to Fortuna in late April or early May to begin work. In preparation, City public works staff have been prepping the sites for the contractor, most notably by preparing for the temporary water tanks that will be used while the primary tanks are being taken offline for coating.

### 12<sup>th</sup> Street LID Project

Staff opened bids for the project on March 16<sup>th</sup>. The City received four bids, with the apparent low bid submitted by RAO Construction. The bids came in above the established project grant budget, and since then staff have been working with the State Water Board (granting agency) to seek gap funding. Fortunately, there appear to be excess funds available, and staff are optimistic that the City will be able to obtain the additional grant funding necessary to award the project at the first meeting in May.

### Kenmar and 12<sup>th</sup> Street Interchange Projects

In March staff brought the project environmental document to the council for adoption. Since that meeting, staff have been working to finalize outstanding items on the project report, with the assistance from our consulting engineers. Staff anticipate that the majority of the City-led work on this phase of the project will be complete soon, which will leave only the Caltrans Cultural Reporting and NEPA items outstanding. Once the Caltrans items are finalized, the preliminary design phase of the Kenmar project will be complete, and staff will continue to work to seek funding to continue future phases of work.

In early April, staff participated in a conference call with Caltrans Executive Management Staff in order to further present the City's interchange projects. The goal of the call was to further engage Caltrans in an effort to gain support for the City's interchange projects. Overall the meeting went well, and staff feel that with the level of project development that City staff have been able to complete to date, the City is positioning itself well for greater interest and participation from the state or other funding agencies.

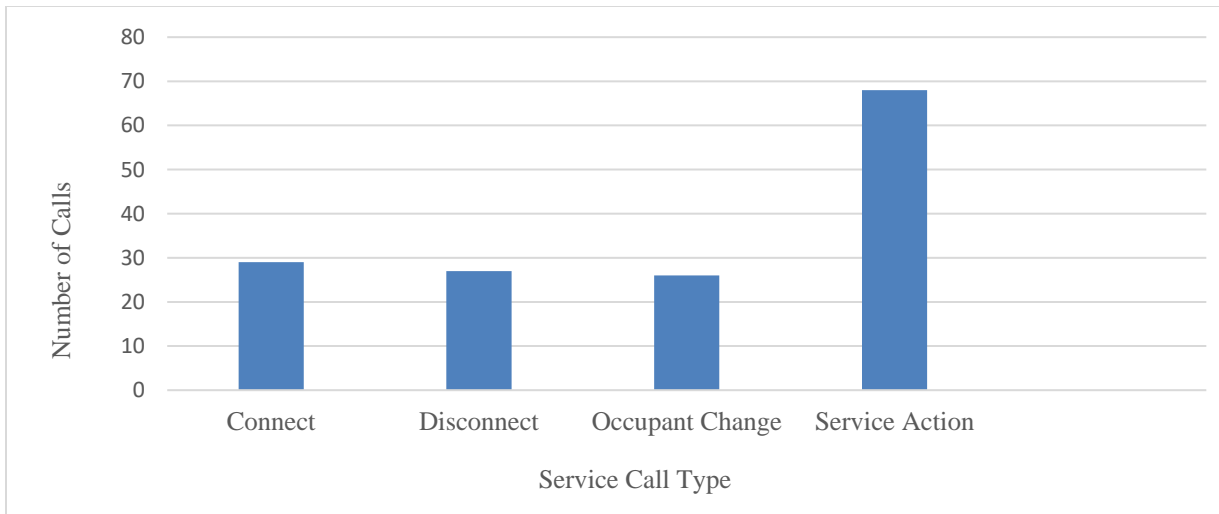
### Rohner Park Basketball Court Project

The project broke ground the week of April 3<sup>rd</sup>. At the onset, the contractor completed the excavation and base rock placement work, in preparation for pavement the week of April 10<sup>th</sup>. The contractor's current construction schedule should have most of the work completed by the end of April or early May, and the only item outstanding could be the striping and acrylic surfacing, which requires consistent dry weather to install.

## **Utilities Division- Utility Lead**

### Service Call Summary

- In March the utilities division completed 150 service calls. Figure 1 below shows the distribution of service calls by type.
- Underground Service Alert (USA) has changed their format and the utilities crew can no longer track how many mark and locates have been completed.



**Figure 1.** Utility division service calls by type in March.

Water Distribution System

- The utilities team installed two new services to the system in March, and changed out 18 dead water meters
- Finished state mandated Backflow Testing.
- In March we had two water leaks. As a result of this there was an estimated water loss of 100,950 gallons.
- Repaired a fire hydrant hit on Angel Heights, the estimated water loss for this was 24,000 gallons (see table below)
- Replaced four broken angle valves throughout the system.
- Installed two fire lines on Smith Lane for new multi-family buildings.

**Table 1.** Water leak rate and water loss estimates for March 2023.

Date	Location	Pipe Information	Estimated Leak Rate (Gallons per Minute)	Leak Duration	Total Estimate Leak Volume (Gallons)
3/3/2023	Leak at Round Table Pizza	2” PVC (Plastic)	7	10 Days	100,800
3/5/2023	Hydrant hit on Angle Heights	Fire Hydrant	600	40 Minutes	24,000
3/28/2023	4100 Block of Rohnerville Road	1” CTS (Plastic)	0.25	10 Hours	150

### Wastewater Collections System

- Utilities cleaned 14,000 feet of sewer main, and clean two sewer plugs.
- Installed one new sewer connection on 9<sup>th</sup> Street.
- The City experienced a sanitary sewer overflow due to heavy winter storm in March. The majority of the overflow was contained onsite, and the crew was able to clean up the site the following morning.

### Miscellaneous Tasks

- The utilities division performed monthly maintenance on the division’s heavy equipment, including greasing and checking all fluids.
- Staff participated in lock out tag out, confined space, and traffic control training.

### **Water Treatment/Wastewater Division- Chief Plant Operator**

#### Division Staffing

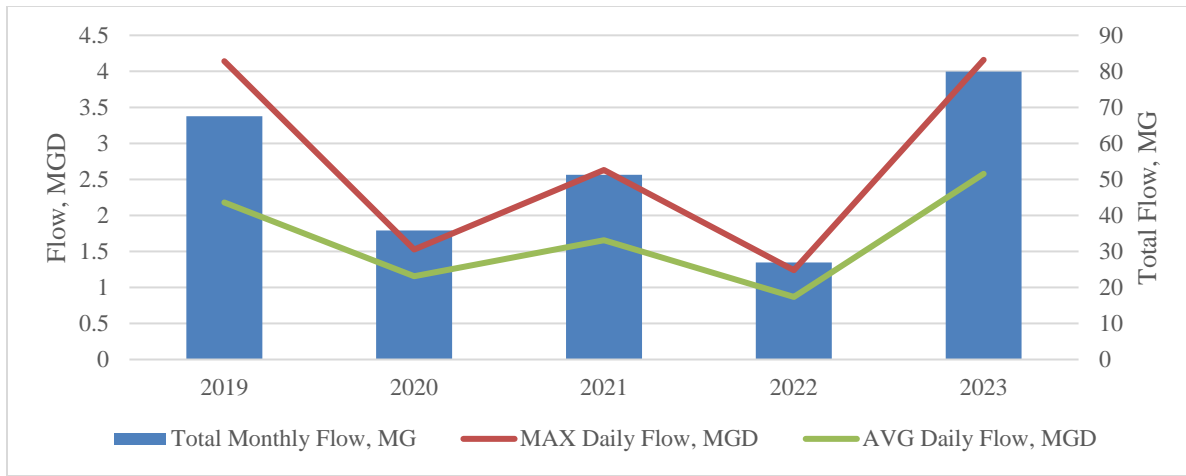
- New Operator-in-Training Ross Williams started work with the Wastewater Treatment Plant Division this month. He fills in the last empty position with the crew, and he will make a great addition.
- Treatment Plant Operator I Joel Rizzo took and passed his T2 Water Treatment Plant Operator certification examination this month.
- Staff attended training events on the use of lockout/tag-out equipment, confined space safety, first aid, and CPR training.



### **Wastewater Treatment**

**Table 2.** March wastewater plant effluent flows for the past five years in Million Gallons (MG) and Million Gallons per Day (MGD).

<b>Year</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
<b>Total Monthly Flow, MG</b>	67.552	35.810	51.290	26.940	79.920
<b>Maximum Daily Flow, MGD</b>	4.141	1.528	2.630	1.240	4.160
<b>Average Monthly Flow, MGD</b>	2.179	1.155	1.655	0.869	2.578



**Figure 2.** March wastewater plant effluent flows for the past five years in Million Gallons (MG) and Million Gallons per Day (MGD).

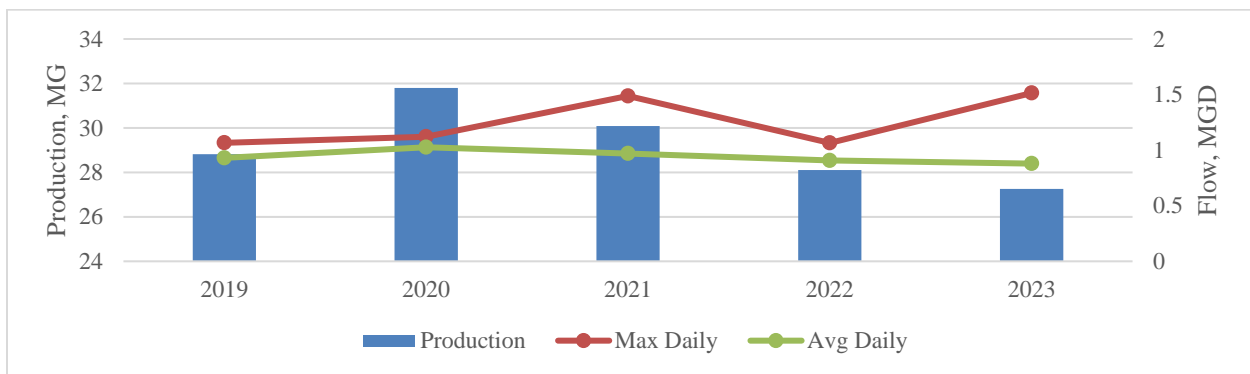
Wastewater Events & Maintenance Tasks Completed

- Multiple storms this past month required staff to respond to dramatic increases of wastewater system flows and numerous power losses. Overall, the system functioned well. Staff responded with diligence to all power losses and returned flow from the overflow ponds after each significant rain event to be ready for the next.
- Staff conducted significant maintenance tasks at the WWTP, including: repairing and replacing sections of the grit sump pump discharge piping and fittings; replacing the headworks backflow prevention device and associated piping; unclogging the headworks screw press discharge piping; and rebuilding the headworks biofilter with new grating, and rock media.

Water Treatment

**Table 3.** March potable water production for the past five years in Million Gallons (MG).

Year	2019	2020	2021	2022	2023
<b>Total Production, MG</b>	28.819	31.799	30.085	28.105	27.256
<b>Maximum Daily, MG</b>	1.066	1.121	1.487	1.065	1.514
<b>Average Daily, MG</b>	0.930	1.026	0.970	0.907	0.879



**Figure 3.** March potable water production for the past five years in Million Gallons (MG).

**Table 4.** Average March depth-to-groundwater static levels in the City’s active wells for the past five years in feet.

<b>Year</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
<b>Well #1</b>	21.0	27.4	26.6	28.1	18.9
<b>Well #2</b>	18.0	24.4	23.5	25.2	16.2
<b>Well #4</b>	23.5	29.7	29.3	30.6	22.3
<b>Well #5</b>	25.5	31.4	31.1	32.4	23.2

Water Events & Maintenance Tasks Completed

- Staff spent significant time on preparing the temporary water tanks and conducting site-work at Hillside and Campton Heights storage tanks. This is crucial and required work before staff can remove these two, large, steel tanks from service for the coating contractors. These temporary tanks will provide water service while the larger tanks undergo their maintenance by the contractors in the near future.
- Staff worked on over-hauling the emergency generator at Vancil reservoir.
- PG&E and Tesla performed their inspections and final testing of the battery pack installation at the water wells site on Eel River Drive. This was the last step before PG&E can grant permission-to-operate to the unit. Unfortunately, required upgrades to PG&E infrastructure will postpone this unit’s functioning indefinitely.
- Staff completed the annual Consumer Confidence Report, and posted this informative water quality document on the City’s website. It will be available at City Hall, or by mail to any customers who request it.

General Services and Streets - General Services Superintendent

The following is a list of scheduled assignments completed by the General Services staff in March:

- Staff responded to a sinkhole forming from a failing culvert on Elizabeth Barcus Way. Staff removed vegetation that blocked the outflow of the culvert. Staff will return and repair the culvert in better weather conditions. (See photo inset top right).

- Staff removed vegetation and material build up on the drainage ditch along Rohnerville Road.
- Staff monitored storm drain inlets during inclement weather. Staff was called out for multiple tree-related vegetation cleanups and removals from the recent high winds.
- Staff diverted water runoff into nearby basin at Osprey Terrace. Staff removed vegetation and exposed the culvert along the property line. (See photo inset right).
- Staff replaced a small barricade fence near Fortuna Boulevard and Kenmar Road. The fence was destroyed by an unknown vehicle.
- Staff potholed utilities on 12<sup>th</sup> Street for the upcoming stormdrain and raingarden project.



In addition to the special tasks noted above, staff also engaged in the following regular routine maintenance activities including USA's, street sweeping, recycling and trash management, road maintenance, vegetation management, and safety training and inspections. Staff is available for questions, requests, and emergency responses to the community.

**RECOMMENDED COUNCIL ACTION:**

Receive Public Works Department Monthly Report. Consent agenda vote.