

# MEMORANDUM



TO: Kelcey Young, City Manager  
FROM: Greg Springman, Public Works Director  
DATE: November 8, 2022  
SUBJECT: Public Works Activities Report – October 2022

This memorandum provides a brief periodic update of specific projects, WTP/WWTP O&M and Compliance status, and activities performed by the Public Works Department.

This table section summarizes work done on key maintenance activities.

Work Type	October, 2022	September, 2022	2022 YTD	2021	3 Yr Avg
Bathrooms/Garbage	11	9	151	169	503
Catch Basin Inspection/cleaning	0	0	3	6	28
Leaf Collection	285	0	285	1637	666
Hydrant Flushing	0	129	198	324	302
Locates	11	74	486	491	486
Meter Re-Read	31	75	583	1060	777
Mowing	5	5	117	40	84
Playground EQ Inspection	7	8	65	49	56
Pothole Repair	14	0	353	514	597
Sewer CCTV Miles	0	0.00	0.40	0.16	2.48
Street Sweeping Miles	147	15	880	893	2374
Water Main Repair	1	0	11	9	10
Water Service Repair	1	1	37	20	41
Water Turn Ons/Offs	25	57	524	677	877
<b>Total Completed Work Orders</b>	<b>486</b>	<b>655</b>	<b>5703</b>	<b>6050</b>	<b>6973</b>

## **WWTP and WTP Key Performance Indicators (KPIs)**

	October, 2022	September, 2022	2022 YTD	2021	5 Yr Avg
<b>Potable</b>					
MG Treated	29.83	32.52	292.40	363.99	406.97
Backwash Water in MG	0.81	1.03	12.74	30.07	19.92
Ave daily demand in MG	0.96	1.08	0.96	1.00	1.12
<b>Sanitary</b>					
MG Treated	22.14	22.00	563.50	641.31	586.99
Max Daily Flow in MG	1.04	1.18	6.01	5.89	6.08
Average Flow in MG	0.71	0.73	1.85	1.76	1.61

\* MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 33 exceedances for the month of September 2022.

- For September daily TSS pounds we exceeded 4 times with highest being 419.6 on a permit of 240
- For September Weekly Avg TSS pounds we exceeded 3 times with the highest being 324.1 on a permit of 180
- For September Monthly Avg TTS pounds was 260.5 on a permit of 120 pounds
- For September Monthly TTS mg/l was 39.3 on a permit of 10 mg/L
- For September Weekly TTS mg/l we exceeded 4 times with the highest being 56.5 on a permit of 15mg/L
- For September daily cBOD pounds we exceeded 7 times with the highest being 595.4 on a permit of 240
- For September Weekly Avg cBOD pounds we exceeded 4 times with the highest being 529.2
- For September Monthly Avg cBOD pounds was 387.9 on a permit of 120
- For September Monthly cBOD mg/L was 64.1 on a permit of 10 mg/L
- For September Weekly cBOD mg/L we exceeded 4 times with the highest being 89.0 mg/L on a permit of 15mg/L
- For September we exceeded our e-coli daily limit of 406 1 times with the highest being >2419.6
- For September we failed to meet our TSS %removal with 81.5% with a threshold of 85%
- For September we failed to meet our cBOD %removal with 69.4% with a threshold of 85%
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Our data shows that something came into the facility on August 9<sup>th</sup> and 23<sup>rd</sup> killing our biology both times. We are working with outside consultants and the DEQ to bring the plant back to normal operating parameters.

As of 10/1/2022 all parameters appear to be within permit parameters.

## **Current & Upcoming Projects**

### **Small Diameter Water Main Replacement**

**Scope:** Engineer of Record and Staff has identified aged water mains throughout the 54 miles of water distribution system. Staff and West Yost will take a phase approach to replace the 5 miles of small diameter water mains.

**Status:** Project RFP bids from Contractors have been submitted. Staff awarded Project in September 2022. Pre-Construction meeting scheduled for October 2022.

#### Pleasant Valley Bridge Water Main Repair

**Scope:** Pac Excavation to repair a broken 12" water main, replace 22 pipe hangers, and provide additional supports inside Pleasant Valley Bridge.

**Status:** Pac Excavation repaired the water main in August, 2022. Project completed

#### Water Master Plan – West Yost

**Scope:** Develop Water Master Plan to support development.

**Status:** Water Master Plan is scheduled for completion in November 2022. Staff will provide updates as necessary.

#### Stormwater Master Plan – West Yost

**Scope:** Develop Stormwater Master Plan to support development

**Status:** Stormwater Master Plan is scheduled for completion in June 2023. Staff will provide updates as necessary.

#### Backwash Pump Evaluation – West Yost

**Scope:** Install backwash pump, utilizing the clearwell for filter backwashes and the corresponding effects on the distribution system and treatment.

**Status:** Project awarded to Pacific Excavation. Backwash pump has been back ordered, projected arrival date was changed from November 2022, until December 2022 due to back ordering from vendor. Construction started May 2022. Project on schedule, other than the arrival of the backwash pump.

#### Finished Water Pump VFD Evaluation – West Yost

**Scope:** Evaluate feasibility to add a Variable Frequency Drive (VFD) to the current finish water pumps to maintain a constant level in clearwell to help facilitate backwash pumping.

**Status:** Project awarded to Pacific Excavation, with VFD installation coordinated with The Automation Group (TAG). Projected pump arrival date was changed from November 2022, until December 2022 due to back ordering from vendor.

#### Fluoride at WTP

**Scope:** Fluoride system at WTP has failed/End of life budgeted for replacement this FY23.

**Status:** PW Staff ordered replacement parts. Arrival for replacement parts TBD. Staff will provide updates to Council as necessary.

#### Water Meter Modernization

**Scope:** Replace water meters through the entire water distribution system.

**Status:** Public Works staff purchased 3000 Kamstrup Smart Ultrasonic water meters. Public Works staff has installed 2400 meters to date, project is 80% complete.

#### Wastewater Filter Belt Press

**Scope:** Filter Belt Press was installed in approx. 1974 and is an operational and financial challenge to keep operating, looking to prepurchase new dewatering equipment for the wastewater treatment plant as part of the upgrade project.

**Status:** PW staff currently working with Engineer of Record to confirm sizing of dewatering equipment.