

# MEMORANDUM



TO: Kelcey Young, City Manager  
FROM: Greg Springman, Public Works Director  
DATE: April 11, 2023  
SUBJECT: Public Works Activities Report – March 2023

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	March, 2023	February, 2023	2023 YTD	2022	3 Yr Avg
Bathrooms/Garbage	9	10	30	168	360
Catch Basin Inspection/cleaning	1	0	1	3	13
Leaf Collection	0	0	1	1454	1105
Hydrant Flushing	35	0	35	200	276
Locates	56	36	130	498	479
Meter Re-Read	49	59	148	613	705
Mowing	2	0	2	117	95
Playground EQ Inspection	3	0	7	68	72
Pothole Repair	67	1	240	416	513
Sewer CCTV Miles	0.26	0.84	2.54	0.40	0.71
Street Sweeping Miles	122	66	300	1180	2072
Water Main Repair	0	3	3	11	12
Water Service Repair	2	1	5	38	30
Water Turn Ons/Offs	72	53	177	568	762
<b>Total Completed Work Orders</b>	<b>684</b>	<b>476</b>	<b>1846</b>	<b>6790</b>	<b>7137</b>

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

	March, 2023	February, 2023	2023 YTD	2022	5 Yr Avg
<b>Potable</b>					
MG Treated	25.91	25.27	80.33	346.58	389.07
Backwash Water in MG	0.95	1.12	2.94	15.66	19.99
Ave daily demand in MG	0.84	0.9	0.89	0.95	1.07
<b>Sanitary</b>					
MG Treated	80.44	52.49	201.45	677.61	587.83
Max Daily Flow in MG	3.48	2.89	3.48	6.01	6.01
Average Flow in MG	2.68	1.88	2.27	1.86	1.61

MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 4 exceedances for the month of February 2023.

- 2/8/2023 We experienced an excess solids in our clarifiers which caused cascade of exceedances.
  - Week of 2/5/2023 Weekly Ave TSS was 44.7 mg/L on a permit of 30mg/L
  - Week of 2/5/2023 Weekly Ave TSS was 706.7 pounds on a permit of 520 pounds
  - 2/8/2023 Daily TSS pounds was 1330.4 on a permit of 690
- For February Monthly cBOD mg/L was 16.3 on a permit of 15 mg/L

### **Current & Upcoming Projects**

#### **Small Diameter Water Main Replacement – 9<sup>th</sup> Avenue**

**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 starting with 9<sup>th</sup> Avenue.

**Status:** Project RFP bids from Contractors have been submitted. Staff awarded Project in September 2022. Construction commenced April 7, 2023.

#### **Water Master Plan – West Yost**

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

**Status:** Water Master Plan is scheduled for completion in March 2023. West Yost working on final draft of the Water Master Plan.

#### **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 May 2023 due to back ordering from vendor. 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 May 2023 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:** Replacement parts have been received by TAG and will be programed prior to installation.

### 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 2800 meters to date, project is 90% complete.

### Mahler WRF - Interim Improvement Project

**Scope:** Filter Belt Press was installed in approx. 1974 and is an operational and financial challenge to keep operating. Staff and West Yost prepurchase new dewatering equipment (screw press), sludge blend tank, and additional electrical components for the wastewater treatment plant as part of the upgrade project.

**Status:** PW staff and West Yost design, created bid documents for the project. IIP broke ground in March 2023 and is on schedule.