

MEMORANDUM



TO: Christy Wurster, City Manager Pro-Tem
 FROM: Greg Springman, Public Works Director
 DATE: March 8, 2022
 SUBJECT: Public Works Activities Report – February 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	February, 2022	January, 2022	2022 YTD	2021	3 Yr Avg
Bathrooms/Garbage	17	19	36	169	503
Catch Basin Inspection/cleaning	1	1	2	6	28
Leaf Collection	0	0	0	1637	666
Hydrant Flushing	0	0	0	324	302
Locates	56	45	101	491	486
Meter Re-Read	72	74	146	1060	777
Mowing	1	0	1	40	84
Playground EQ Inspection	17	5	22	49	56
Pothole Repair	32	86	118	514	597
Sewer CCTV Miles	0.14	0.00	0.14	0.16	2
Street Sweeping Miles	95	130	225	893	2374
Water Main Repair	2	1	3	9	10
Water Service Repair	0	7	7	20	41
Water Turn Ons/Offs	53	43	96	677	877
Total Completed Work Orders	548	411	959	6050	6973

WWTP and WTP Key Performance Indicators (KPIs)

	January, 2022	December, 2021	2022 YTD	2021	5 Yr Avg
Potable					
MG Treated	28.57	28.56	28.57	363.99	406.97
Backwash Water in MG	2.35	2.86	2.35	30.07	19.92
Ave daily demand in MG	0.92	0.92	0.92	1.00	1.12
Sanitary					
MG Treated	100.6	117.38	100.60	641.31	586.99
Max Daily Flow in MG	6.01	5.89	6.01	5.89	6.08
Average Flow in MG	3.245	3.79	3.25	1.76	1.61

* MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 11 exceedances and a SSO event for the month of January 2022.

- On 1/3/2022 at 1:37pm heavy rains, I&I greatly increased the incoming flow to the treatment plant. An unknown amount of rain-diluted wastewater flowed to the designed Ames Creek bypass structure. Our treatment facility was running at or above the continuous design capacity of 6.0MGD during the event, which ended on 1/8/2022 at 4:00 AM. An SSO Reporting form was submitted separately.
- On 1/04/2022 Max daily TSS pounds was 1544.3 on a permit limit of 690 pounds
- On 1/05/2022 Max daily TSS pounds was 1052.6 on a permit limit of 690 pounds
- On 1/05/2022 Weekly Avg TTS pounds was 1298.4 on a permit limit of 520 pounds
- On 1/25/2022 Max daily TSS pounds was 886.7 on a permit limit of 690 pounds
- On 1/26/2022 Max daily TSS pounds was 1966.8 on a permit limit of 690 pounds
- On 1/26/2022 Weekly Avg TTS pounds was 1426.7 on a permit limit of 520 pounds
- On 1/26/2021 Weekly Avg TTS mg/L was 77.5 on a permit limit of 30.0
- Monthly Average TSS pounds was 792.2 on a permit limit of 350 pounds
- Monthly Average TSS mg/L was 30.6 on a permit limit of 20.0
- Monthly TSS % removal was 62.9 % on a permit limit of 70%

Additionally, on 1/04/2021 we had an E-coli MPN of 721.5 as a violation on the max limit of 406. We elected to take the violation rather than resample as we were in an SSO event, and it was unlikely that we would test out of the violation. A Noncompliance Reporting form was submitted separately.

We have suspicions that our outside laboratory made a procedural error with our effluent TSS on 1/26/2022. We had effluent TSS 116 mg/L with an influent of 117mg/L. Coupled with only an E. Coli of 41.1 on the 26th which would indicate our effluent was cleaner than the TSS would indicate. We have ordered the laboratory equipment to start testing TSS inhouse to help alleviate these concerns.

Current & Upcoming Projects

Wastewater Treatment Plant Improvement Project

Scope: Upgrades to equipment & processes for DEQ Compliance

Status: Engineer of Record (West Yost) completing WWTP Final Design Phase I and Phase II. West Yost will provide Council a WWTP Improvement Project update in April 2022.

Small Diameter Water Main Replacement

Scope: Engineer of Record and Staff has identify 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: Phase I & Phase II project documents will be presented to Council in March 2022. Engineer of Record and Staff will continue to provide updates as available.

Sankey Park Improvements

Scope: Install new paths, lighting, and playground equipment.

Status: Project was completed by January 2022. Final concrete path was poured in February 2022. Minor punch list of lighting remains to be finished by PW Staff.

2021 Overlay Project

Scope: Overlay multiple streets through the community.

Status: Phase I and Phase II construction has been completed for FY 21.

Water & Stormwater Master Plans – West Yost

Scope: Develop Water & Stormwater Master Plans to support development

Status: Kick off meetings for both projects commence October 2021. Staff will provide periodic updates. Projects scheduled for completion in July 2022.

Backwash Pump Evaluation – West Yost

Scope: Evaluate feasibility of adding a backwash pump and using clearwell for filter backwashes and the corresponding effects on the distribution system and treatment.

Status: Design completed by West Yost, materials starting to be ordered for 1st stage of project. Contract approved by council to Pacific Excavation, pre-construction meeting occurred in January 2022.

Finished Water Pump 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 Pump.

Status: Design completed by West Yost, materials starting to be ordered for 1st stage of project. Contract approved by council to Pacific Excavation, pre-construction meeting occurred in January 2022.

Fluoride at WTP

Scope: Fluoride system at WTP has failed/End of life budgeted for replacement FY21/22.

Status: PW Staff obtaining quotes for replacement. Staff will present topic to Council for discussion.

Streaming Current Monitors Replacement

Scope: The Streaming Current Monitors (SCMs) have failed at the WTP and are at end of life.

Status: PW staff have obtained a quote from our Integrator of Record and are proceeding on this project utilizing that contract. Project completed in February 2022.

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.