

# CITY OF OAK CREEK WATER & SEWER UTILITY

## OFFICIAL NOTICE

**PLEASE TAKE NOTICE** that the Water and Sewer Utility Commission will meet virtually on Tuesday, October 13, 2020, at 9:00 am.

### **Important Notice**

This meeting will be held by video conference. Persons wishing to participate in this public meeting need to register via <http://ocwi.org/register> prior to the start of the meeting.

The webinar will start at 8:50 am so those that registered may log in.

Persons requiring other reasonable accommodations may contact the City at 414-766-7000.

Requests should be made as far in advance as possible.

The purpose of this meeting will be to discuss the topics listed on the attached agenda.

It is possible that members of and possibly a quorum of members of our governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

## **PUBLIC NOTICE**

**Please Note:** Upon reasonable notice, a good faith effort will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aid at no cost to the individual to participate in public meetings. Due to the difficulty in finding interpreters, requests should be made as far in advance as possible, preferably a minimum of 48 hours. For additional information or to request this service, contact the Oak Creek City Clerk at 414-766-7023 or write to the ADA Coordinator at the Health Department, City Hall, 8040 South 6<sup>th</sup> Street, Oak Creek, Wisconsin, 53154.

**DATED**, at Oak Creek, Wisconsin, this the 8th day of October, 2020.

/s/ Michael J. Sullivan  
General Manager

**A G E N D A**  
**WATER AND SEWER UTILITY COMMISSIONERS**  
**CITY OF OAK CREEK**

**TIME**  
9:00 am

**DATE**  
Tuesday  
October 10, 2020

**LOCATION**  
Via Video  
Conference Only

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**1.0 OPENING OF MEETING**

- 1.1 Roll Call
- 1.2 Minutes Approval - Regular Meeting 09-8-2020

**2.0 CLOSED SESSION**

- 2.1 Closed Session in accordance with Section 19.85 (1)(c), (e), and (g) of the Wisconsin State Statutes for the following purpose:
  - 2.1.1 Request for Extended Leave
  - 2.1.2 Wholesale Water Contract
- 2.2 Consider a motion to take action, if required

**3.0 PROJECT APPROVALS**

- 3.1 Award Brown and Caldwell Agreement

**4.0 MISCELLANEOUS MATTERS**

- 4.1 Utility Commission Secretary Election
- 4.2 Annual CMAR Report & Grade
- 4.3 Partnership for Safe Water 5-Year President's Award
- 4.4 Partnership for Safe Water 5-Year Director's Award

**5.0 FINANCIAL MATTERS**

- 5.1 Project Payment Approval
  - 5.1.1 Jewell Street Lift Station Abandonment, \$166,853.05
- 5.2 Voucher Approval

**6.0 ADMINISTRATIVE & OPERATIONS REPORTS**

- 6.1 Aldermanic Report
- 6.2 Engineering Operations Report
- 6.3 Distribution Operations Report
- 6.4 Plant Operations Report
- 6.5 Manager's Report

**7.0 ADJOURN**



# 19109: OCWSU SSMP

**To:** Brian Johnston, Oak Creek Water and Sewer Utility (OCWSU)  
**From:** Julie McMullin, Brown and Caldwell (BC)  
**Date:** September 3, 2020  
**Re:** 19109: OCWSU SSMP Amendment 1

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## Section 1: Background

The original scope of work for the OCWSU Sanitary Sewer Master Plan (SSMP) included a model calibration for up to 10 flow monitoring sites. A couple of months into the project, the BC modeling team identified 10 flow monitoring sites within the OCWSU sanitary sewer service area. After review and concurrence by the OCWSU, BC calibrated the model to these sites using events from the past three years. While the calibrated model helped provide insight to what conditions are occurring in the system between flow meters, significant gaps of unmetered and uncalibrated areas remained. Recognizing these gaps, BC discussed this with the OCWSU, who agreed with the approach to request that MMSD install 9 new flow meters to monitor areas previously unmetered or part of larger metershed areas that included flow from outside Oak Creek and that this data be incorporated into the model calibration. MMSD subsequently installed 4 of the requested meters in March 2020 and 3 of the requested meters in June 2020. The remaining 2 meters were installed in July 2020.

Data from the following requested meters are to be incorporated into the SSMP modeling work to further refine the model calibration:

1. OC8010 installed 3/5/2020 in 21-inch pipe upstream of manhole 968010 (10th north of Becker)
2. OC8051, installed 3/5/2020 in 21-inch pipe upstream of manhole 858051 (13th between Violet and Riverside)
3. OC2035 installed 3/5/2020 in 15-inch pipe upstream of manhole 972035 (Elm between Richards and Nicholson)
4. OC0003 installed 3/5/2020 in 24-inch pipe upstream of manhole 780003 (Drexel east of Clement)
5. OC0004 installed 6/18/2020 in manhole 920004 (Oakwood east of Oak Leaf Trail)
6. OC4010 installed 6/18/2020 in 21-inch pipe upstream of manhole 764010 (10th and Rawson)
7. OC2051 installed 6/18/2020 in manhole 812051 (Willow Heights Park)
8. CK0109 replacement installed 7/15/2020 in 21-inch pipe upstream of manhole 8680030D (east of 5th and American)
9. OC5058 (in the Cedar Hills neighborhood) installed 7/15/2020 in 15-inch pipe upstream of manhole 715058 (20th and College)



## Section 2: Change Order Scope of Work

The scope of work will be adjusted to accommodate the following additional tasks:

- Update the hydraulic model in PCSWMM to include data from 9 new flow monitoring sites;
  - Review the flow monitoring data and update the data timeline accordingly;
  - Perform a rainfall analysis by preparing depth-duration-frequency curves for up to 5 representative calibration events;
  - Delineate metershed areas in PCSWMM for 9 flow monitoring sites and identify flow input locations;
  - Calibrate the model hydrology including dry weather flow, groundwater, and peak flow and calibrate the model hydraulics for 9 flow monitoring sites;
  - Establish baseline conditions by simulating a historic event such as July 2010 in the calibrated model and evaluating the results to identify potential areas with capacity constraints, sanitary sewer overflows, surcharging, and high infiltration and inflow rates;
  - Establish future conditions by incorporating metersheds and calibration parameters for 9 new flow monitoring sites into the future conditions model, simulating the same representative event used for calibration, and evaluating the results;
- Meet with Utility staff to discuss model results; and
- Document results of the model calibration and baseline and future conditions evaluations.

## Section 3: Schedule

The task order completion will shift the overall project completion date from November 26, 2020 to March 31, 2021. BC anticipates a four month delay from the original completion date to accommodate the additional work.

## Section 4: Budget

The proposed change order is to increase the budget by \$19,928. This increases the overall budget from \$233,632 to \$253,560, as indicated in Table 1. Table A-1 in Attachment A provides the detailed budget.

Table 1. Budget Summary										
Task Number	Task	Original				Revised with PC01				Difference
		Total Hours	Expenses	Labor Cost	Original Total Cost	Total Hours	Expenses	Labor Cost	Total Cost	
100	Project Management	76	\$0	\$11,638	\$11,638	92	\$0	\$13,789	\$13,789	\$2,151
200	Data Collection & Review	138	\$0	\$18,278	\$18,278	138	\$0	\$18,278	\$18,278	\$0
400	Sewer Model & Calibration	553	\$0	\$74,098	\$74,098	697	\$0	\$91,875	\$91,875	\$17,777
500	Sanitary Sewer CIP	413	\$0	\$68,579	\$68,579	413	\$0	\$68,579	\$68,579	\$0
600	Update System Map	82	\$0	\$11,128	\$11,128	82	\$0	\$11,128	\$11,128	\$0
700	Lift Station Assessment	152	\$0	\$30,015	\$30,015	152	\$0	\$30,015	\$30,015	\$0
800	Sanitary Sewer Master Plan	128	\$0	\$19,896	\$19,896	128	\$0	\$19,896	\$19,896	\$0
<b>TOTALS</b>		<b>1,542</b>	<b>\$0</b>	<b>\$233,632</b>	<b>\$233,632</b>	<b>1,702</b>	<b>\$0</b>	<b>\$253,560</b>	<b>\$253,560</b>	<b>\$19,928</b>



## **Attachment A: Budget Detail**

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Table A-1: Detailed Estimated Level of Effort																	
Item Order	Task	Description	Comments/Assumptions	OVERALL: PPH - Engineering				Brown and Caldwell									
				Total Hours	Labor Cost	Expenses	Total Cost	Julie McMullen	Iyna Matta	David Perry	Nina Ficano	George (Bill) Rehberg	Suzi Wood	Total Hours	Expenses	Labor Cost	Total Cost
								Project Manager \$179.00	Project Assistant \$96.00	Flow Evaluations Lead \$189.00	Project Engineer I \$99.00	GIS Specialist \$124.00	Administrative Assistant \$65.00				
1	Project Management	Amendment 1 Development		11	\$1,339	\$0	\$1,339	2		1	8			11		\$1,339.00	\$1,339.00
2	Project Management	Project Management for 4 additional months Update hydraulic model to include data from 9 new flow monitoring sites, review data, and update data timeline	Schedule extended by 2 months	5	\$812	\$0	\$812	4	1					5		\$812.00	\$812.00
3	Sewer Model & Calibration	Perform rainfall analysis of representative calibration event(s)	Up to 9 meters	11	\$1,349	\$0	\$1,349	1		2	8			11		\$1,349.00	\$1,349.00
4	Sewer Model & Calibration	Delineate watershed areas for 9 new flow monitoring sites and identify flow input locations	Up to 5 events	3	\$387	\$0	\$387			1	2			3		\$387.00	\$387.00
5	Sewer Model & Calibration	Calibrate model hydrology including dry weather flow, groundwater, and peak flow	Up to 8 watersheds	21	\$2,494	\$0	\$2,494	2		2	14	3		21		\$2,494.00	\$2,494.00
6	Sewer Model & Calibration	Calibrate model hydraulics at 9 flow monitoring sites	Up to 9 model calibration locations	26	\$3,094	\$0	\$3,094	2		4	20			26		\$3,094.00	\$3,094.00
7	Sewer Model & Calibration	Simulate historic event and evaluate results (check for capacity constraints, SSOs, surcharging, and high I/I rates)	Up to 9 model calibration locations	13	\$1,637	\$0	\$1,637	1		3	9			13		\$1,637.00	\$1,637.00
8	Sewer Model & Calibration	Incorporate 9 new flow monitoring sites into future conditions model, simulate representative calibration event, and evaluate results	Up to 9 locations	17	\$2,123	\$0	\$2,123	1		4	12			17		\$2,123.00	\$2,123.00
9	Sewer Model & Calibration	Meet with Utility staff to discuss results		6	\$934	\$0	\$934	2		2	2			6		\$934.00	\$934.00
10	Sewer Model & Calibration	Document and summarize model calibration and results		30	\$3,636	\$0	\$3,636	3		4	18	4	1	30		\$3,636.00	\$3,636.00
<b>TOTALS</b>				<b>160</b>	<b>\$19,928</b>	<b>\$0</b>	<b>\$19,928</b>	<b>19</b>	<b>1</b>	<b>27</b>	<b>105</b>	<b>7</b>	<b>1</b>	<b>160</b>	<b>\$0.00</b>	<b>\$19,928.00</b>	<b>\$19,928.00</b>

# Compliance Maintenance Annual Report

Oak Creek Sewage Collection System

Last Updated: Reporting For:  
6/3/2020 2019

## DNR Response to Resolution or Owner's Statement

Name of Governing Body or Owner:	<input type="text" value="Oak Creek Water &amp; Sewer Utility"/>
Date of Resolution or Action Taken:	<input type="text" value="2020-06-02"/>
Resolution Number:	<input type="text" value="2019-02-6.3"/>
Date of Submittal:	6/3/2020

**ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):**  
Financial Management: Grade = A  
**Permittee Response:**

**DNR Response:**

Thank you for reviewing the user charge system and equipment replacement fund requirements in 2019. Continue to ensure there are adequate funds to maintain and replace equipment so the facility can maintain compliance.

There are projects listed in the future planning section with pas construction dates. If these projects have not been completed, please update the completion date for next year's CMAR. If the projects are complete, please remove it from the future planning section.

Collection Systems: Grade = A  
(Regardless of grade, response required for Collection Systems if SSOs were reported)  
**Permittee Response:**

**DNR Response:**

Please continue with your collection system repairs and I/I reduction program.

Describe the nature of the complaints on your next CMAR as additional comments.

**ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS**  
(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)  
**G.P.A. = 4**  
**Permittee Response:**

**DNR G.P.A. Response:**

**DNR CMAR Overall Response:**

Thank you for your submission of this report. The department appreciates your effort to protect human health and the environment by assuring that your wastewater collection system is properly maintained. Based on the grading for 2019 and the requirements in ch. NR 208, Wis. Adm. Code, this report is accepted as final. Feel free to contact me at [Jacob.Wedesky@wisconsin.gov](mailto:Jacob.Wedesky@wisconsin.gov) if you have any questions.

<b>DNR Reviewer:</b> Wedesky, Jacob	<b>Phone:</b> (414) 263-8692
<b>Address:</b> 2300 N Dr Martin Luther King Jr Dr, Milwaukee, WI 53212	<b>Date:</b> 10/1/2020



OAK CREEK WATER AND SEWER UTILITY  
PROGRESS PAYMENT REPORT

PROJECT NO. 17106- Jewel Street Lift Station Abandonment

Item No.	Item Description	Bid Quantity	Unit	Price	Total Price	Partial Payment No. 1 May 14, 2020		Partial Payment No. 2 June 9, 2020		Partial Payment No. 3 July 14, 2020		Partial Payment No. 4 August 11, 2020		Partial Payment No. 5 October 13, 2020		PROJECT TOTAL			
						Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete		
D.F. Tomasi Contractors, Inc. N70W25176 Indian Grass Lane Sussex, WI 53089																			
1	15-INCH PVC SANITARY SEWER SDR-35 1-1/4" TB	15	LF	\$500.00	\$7,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$5,000.00	10.00	\$5,000.00	10.00	\$5,000.00
2	18-INCH PVC C900 SANITARY SEWER 1-1/4" TB	55	LF	\$500.00	\$27,500.00		\$0.00		\$0.00		\$0.00		\$27,500.00		\$0.00	55.00	\$27,500.00	55.00	\$27,500.00
3	18-INCH PVC C900 SANITARY SEWER, SPOIL BACKFILL	1,887	LF	\$405.00	\$764,235.00		\$0.00	545.70	\$221,006.50	1272.50	\$515,362.50		\$27,864.00		\$0.00	1,887.00	\$764,235.00	1,887.00	\$764,235.00
4	SANITARY SEWER MANHOLE 48" I.D.	178	VF	\$1,300.00	\$231,400.00		\$0.00	101.00	\$131,300.00	91.62	\$119,106.00		\$12,350.00		\$0.00	202.12	\$262,756.00	202.12	\$262,756.00
5	ABANDON AIR RELEASE & SANITARY MANHOLE	2	EA	\$7,500.00	\$15,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$15,000.00	2.00	\$15,000.00	2.00	\$15,000.00
6	ABANDON 4-INCH FORCE MAIN SANITARY MANHOLE	135	LF	\$35.00	\$4,725.00		\$0.00		\$0.00		\$0.00		\$0.00		\$4,725.00	135.00	\$4,725.00	135.00	\$4,725.00
7	ABANDON 18-INCH SANITARY SEWER	165	LF	\$45.00	\$7,425.00		\$0.00		\$0.00		\$0.00		\$0.00		\$7,425.00	165.00	\$7,425.00	165.00	\$7,425.00
8	ABANDON LIFT STATION	1	LS	\$30,000.00	\$30,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$30,000.00	1.00	\$30,000.00	1.00	\$30,000.00
9	REMOVE 8-INCH SANITARY SEWER	15	LF	\$150.00	\$2,250.00		\$0.00		\$0.00		\$0.00		\$2,250.00		\$0.00	15.00	\$2,250.00	15.00	\$2,250.00
10	REMOVE SANITARY MANHOLE	1	EA	\$2,500.00	\$2,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
11	ASPHALT PAVEMENT REMOVAL	329	SY	\$13.00	\$4,277.00		\$0.00		\$0.00	165.00	\$2,145.00		\$0.00		\$0.00	164.00	\$2,132.00	329.00	\$4,277.00
12	SAWCUTTING EXISTING PAVEMENT FULL DEPTH	75	LF	\$15.00	\$1,125.00		\$0.00		\$0.00	42.00	\$630.00		\$0.00		\$0.00	2.00	\$30.00	44.00	\$660.00
13	REMOVE 57 X 38-INCH ARCH CMP	27	LF	\$82.00	\$2,214.00		\$0.00		\$0.00		\$0.00		\$2,214.00		\$0.00	27.00	\$2,214.00	27.00	\$2,214.00
14	REMOVE GUARDRAIL	30	LF	\$50.00	\$1,500.00	30.00	\$1,500.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	30.00	\$1,500.00
15	PIPE ARCH CORRUGATED STEEL 57 X 38-INCH	27	LF	\$300.00	\$8,100.00		\$0.00		\$0.00		\$0.00		\$8,100.00		\$0.00	27.00	\$8,100.00	27.00	\$8,100.00
16	APRON ENDWALLS FOR PIPE ARCH STEEL 57 X 38-INCH	2	EA	\$2,000.00	\$4,000.00		\$0.00		\$0.00		\$0.00		\$4,000.00		\$0.00	2.00	\$4,000.00	2.00	\$4,000.00
17	HMA PAVEMENT TYPE 4 LT, PG 58-28 S	4	TON	\$1,200.00	\$4,800.00		\$0.00		\$0.00		\$0.00		\$4,800.00		\$0.00	4.00	\$4,800.00	4.00	\$4,800.00
18	STONE TRACKING PAD	1	EA	\$4,000.00	\$4,000.00	1.00	\$4,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$4,000.00	1.00	\$4,000.00
19	DEWATERING	1	LS	\$145,000.00	\$145,000.00	0.30	\$43,500.00		\$0.00		\$0.00		\$0.00		\$0.00	0.30	\$43,500.00	0.30	\$43,500.00
20	CLEARING AND GRUBBING	1	LS	\$26,000.00	\$26,000.00	1.00	\$26,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$26,000.00	1.00	\$26,000.00
21	TURF RESTORATION	1	LS	\$29,000.00	\$29,000.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	0.50	\$14,500.00	0.50	\$14,500.00
22	TRENCH STABILIZATION (UNDISTRIBUTED)	750	TON	\$55.00	\$41,250.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	309.76	\$17,036.80	309.76	\$17,036.80
23	EROSION CONTROL	1	LS	\$17,000.00	\$17,000.00	1.00	\$17,000.00		\$0.00		\$0.00		\$0.00		\$0.00	1.00	\$17,000.00	1.00	\$17,000.00
24	TRAFFIC CONTROL	1	LS	\$10,000.00	\$10,000.00	0.50	\$5,000.00		\$0.00		\$0.00		\$0.00		\$0.00	0.50	\$5,000.00	1.00	\$10,000.00
E-1	Plan Changes to Final Construction Documents	1	LS	\$53,255.00	\$53,255.00		\$0.00		\$0.00	1.00	\$53,255.00		\$0.00		\$0.00	1.00	\$53,255.00	1.00	\$53,255.00
TOTAL ITEMS 1-24 (inclusive)						\$1,444,056.00	\$97,000.00	\$352,308.50	\$637,243.50	\$84,278.00	\$105,648.80	\$1,329,733.80	\$1,329,733.80						

Sub-Total Completed To Date \$1,329,733.80  
 Less Allowance for testing and approval 0% \$0.00  
 Less Retainage (5% to 50% complete) 5% -\$21,342.15  
 Total \$1,308,391.65  
 Less Previous Payments \$1,141,538.60  
**TOTAL PAYMENT DUE THIS PERIOD \$166,853.05**

Recommended for Commission Approval by: Brian J. Johns Date: 10/02/2020



# **ENGINEERING OPERATIONS**

September, 2020

## **Jewell Sanitary Sewer**

D.F. Tomasini has completed the lift station abandonment and the installation of the gravity sewer. They are wrapping up punch list work in October.

## **Water Master Plan**

The Draft Water Master Plan was submitted for review.

## **Sanitary Master Plan**

Brown and Caldwell has revised the sewer shed basins and adjusted as needed. They were sent to MMSD for their group to review and approve.

## **Risk and Resiliency Assessment**

Strand is working on the Risk and Resiliency Assessment that is required to be submitted to the EPA by December 31, 2020. They are filling out the VSAT spreadsheet for the filing.

## **Rawson Avenue Water Looping Project**

Cedar Corp is working on the 1,600 LF of 12" water looping design to connect between the dead ends at 1500 E. Rawson Avenue and S. Rolling Meadows Court. We met with Cedar Corp to go over plan changes. We will need to coordinate with Milwaukee County, We Energies, and Union Pacific Railroad.

## **Weatherly Drive Water Looping Project**

Cedar Corp is finalizing the plans for the 950 LF of 8" water looping design to connect between the dead ends at S. Wilding Drive and W. Walbrook Drive along W. Weatherly Drive. The project is scheduled to be bid out in October. The project award would be at the December Commission meeting.

## **Howell Avenue Water Main Lining Project**

The Howell Avenue Water Main Lining Project is planned to begin in November. We have been working with the DNR to obtain the permits. Mid-City is the general contractor and Michel's will be installing the liner.

## **Private Property Inflow and Infiltration Reduction**

The City in coordination with MMSD is working on an I/I project in the Barton Oaks subdivision. The City sent out letters to the residents in the study area. Some of the residents did not want the City/MMSD in their homes and some laterals after inspection did not need repair. Twenty-seven properties are having their private laterals replaced with the project. Staff has been working with the City team on the inspection of the connections to the sanitary main.

## **Development Project with Utility Construction**

The following development projects which involve utility construction are actively underway:

- Highgate – Punch list items remain.
- Orchard Hills – Punch list items remain.
- Rawson Business Park – Punch list items remain.
- Hub13 – Sanitary main line is completed and tested. Punch list items remain. The water main is connected to Highgate.
- High School – Need Hold Harmless Agreement.

- Creekside Crossing – Sanitary and water are installed on the east-west leg. The sanitary connection has been made in Drexel. Sanitary and water work is ongoing on the portion north of Drexel.
- Cedar Hills school installed a new sanitary lateral.
- USPS site completed punch list items.



## **DISTRIBUTION & COLLECTION OPERATIONS**

**September 2020**

### **Water Main Breaks:**

Workers were called to a break at 400 W. Rawson Ave. on September 7<sup>th</sup>. Repairs were made to the 12" ductile using a repair clamp. The main was laid in 1970.

DPW called in a break at 8660 S. 15<sup>th</sup> Ave. on September 24<sup>th</sup>. The 12" ductile iron main from 1978 was fixed with a repair clamp.

### **Water Lateral Repairs:**

There were no lateral repairs in the month of September.

### **Hydrant Repairs/Maintenance:**

On September 5<sup>th</sup>, a crew was called to 655 E. Bonita Dr. for a possible main break. A hole was found in the 6" hydrant lead. A repair was made with a clamp on the 1963 Iowa fire hydrant lead.

On September 21<sup>st</sup>, a fire hydrant was repaired at 7025 S. 20<sup>th</sup> St. It was struck by a driver who drove off of the road. An invoice has been sent for the damage.

On September 21<sup>st</sup>, a hydrant was called in by OCPD that was hit at 8775 S. 6<sup>th</sup> Ave. A new safety kit was installed. No drivers have been found who caused the damage.

Three additional hydrants were fixed that were found to be broken during flushing.

Utility workers rebuilt 22 Iowa hydrant packings.

### **Valve Repairs:**

There were no valve repairs in the month of September.

### **Sewer Repairs/Maintenance:**

On September 9<sup>th</sup>, workers had to remove part of an 8" clay sewer main at 3301 E. Carol Ct. While televising, a water lateral was found running (bored) through the sewer main. The crew cut out 22" of sewer main and moved the lateral out of the way. Repairs were made with Strongback ferncos.

Utility Workers performed sewer cleaning and televising.

Utility Workers also replaced seven manhole cover seals.

**Miscellaneous:**

Utility workers wrapped up all but one business park for flushing. That was completed on October 3<sup>rd</sup>.

Utility workers completed 6 asphalt, concrete or landscaping restoration projects.

Utility workers repaired 1 valve boxes and 4 curb stops.

Large in-place meter testing has begun.

On September 22<sup>nd</sup>, Utility Worker Craig attended a virtual class put on by Mueller Co.

Annual hearing and respirator fit tests were done by Medivan on September 24<sup>th</sup>.



DISTRIBUTION GOALS 2020

JOB DESCRIPTION	GOALS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
Meter Testing & Exchanges	650	174	166	187	4	23	8	1	2	9				574
New Installs	50	10	11	4	11	7	3	14	3	7				70
Cross Connection Inspections	450	6	45	44	11	8	2	6	5	6				133
Industrial Inspections		8	21	26	-	9	16	27	11	167				285
Orion Replacements	450	43	81	62	14	12	4	10	5	9				240
Water Main Repairs		1	-	-	1	1	3	3	2	2				13
Water Lateral Repairs		1	2	-	-	-	-	-	-	-				3
Annual Hydrant Flushing	2,221					246	481	473	380	578				2,158
Semi-annual Flushing	109				109	-	-	-	-	-				109
Quarterly Flushing	2x52 (104)	52			52			27	25					156
Flush Emergency Connections	3													-
Watermain Crossings	63		63											63
Hydrant Greasing - Caps	2,221					246	481	473	380	578				2,158
Hydrant Greasing - Packing	25									22				22
Hydrant Painting	150						38	67	46					151
Winterize Hydrants	72													-
Clean Sewers	145,000	546	7,173	24,172			12,125	12,079	11,889	15,368				83,352
Camera Sewers	145,000	365	7,173	23,430	216	121	12,125	11,505	14,039	15,368				84,343
Root treatment		13,897	1,513											15,410
Manhole Maintenance Flowlines														-
Grout Manholes	25													-
Repair Manhole Chimneys								1						1
Replace Manhole Cover Seals		1	2	2						7				12
Check Problem Sewers	4x58 (232)	58			58			58						174
Check Remote Sewer Mains	42													-
Check Remote Water Mains	28													-
Operate Valves	750							263	210					473
Valve Boxes Repaired or Adjusted		9	5	6	4	2			3	1				30
Stop Boxes Repaired or Adjusted		3	1	4		5	1	1	2	4				21
Concrete/Asphalt/Landscaping		1				9		4	12	6				32
Catholic Protection Tests	11													-
Winterize Equipment												Due		
Summerize Equipment				Done										
Run All Equipment				Done									Due	
Tier II Report		Done												
MMSD Annual CMOM Report							Done							
DNR eCMAR							Done							
Cross Connection Survey			Done											

**PLANT OPERATIONS**  
**September, 2020**

<b>PUMPAGE REPORT</b>	<b>2020</b>	<b>2019</b>	<b>% Change</b>	<b>5 Year %</b>
Monthly Pumpage	240,869,000	246,259,600	-2.2	-0.6
Monthly Average Day	8,029,000	8,208,653	-2.2	-2.8
Monthly Peak Day	(09/24)9,760,000	(09/26)9,590,000	+1.8	-1.2
Yearly Pumpage	2,182,128,925	2,149,520,700	+1.5	+3.2
Yearly Average Day	7,963,974	7,873,702	+1.5	+2.9
Yearly Peak Day	(08/22)11,660,000	(07/17)12,280,000	-5.0	-2.8
West Zone Pumpage	107,900,000	103,770,000	+4.0	-5.8
West Zone Yearly Total	1,004,450,000	940,848,000	+6.8	+4.0

<b>WATER QUALITY REPORT</b>	<b>Raw Water</b>	<b>Finished Water</b>
Average Free Chlorine		1.58 mg/l
Total Chlorine		1.75 mg/l
Average Alkalinity	108.1 mg/l	110.5 mg/l
Average pH	8.24	8.1
Average Fluoride	0.14 mg/l	0.71 mg/l
Average Turbidity	3.92 NTU	0.031 NTU
High Temperature	<b>High 63.6 F Low 50.3 F</b>	
Hardness	137 mg/l	137 mg/l

**Preventative Maintenance Tasks:** Staff completed 155 preventative maintenance tasks and 2 safety sessions during the month.

**Work Orders:** Staff completed 21 work orders. Some of the tasks include repairing two leaks on pump pre-lube lines, updating emergency lighting to LED, replacing heat detectors at the RWPS, replacing speed controllers on Janat pump 2, repairing roof leaks, and replacing the metering valve on the lower kathabar unit.

**Plant:** Plant Manager Robe attended the virtual WIAWWA annual conference September 12<sup>th</sup> - 14<sup>th</sup>. Work has begun on replacing the West plant effluent meter and will be completed by mid-October. Plant staff has been busy with end of the season maintenance tasks.



