

City of Madison Madison, WI 53703 www.cityofmadison.com

Agenda - Approved WATER UTILITY BOARD

Consider: Who benefits? Who is burdened?
Who does not have a voice at the table?
How can policymakers mitigate unintended consequences?

Tuesday, October 22, 2024

4:30 PM

119 E. Olin Ave.

The City of Madison is holding the Madison Water Utility Board meeting virtually.

- 1. Written Comments: You can send comments on agenda items to waterutilityboard@cityofmadison.com
- 2. Register for Public Comment:
 - · Register to speak at the meeting.
 - · Register to answer questions.
 - · Register in support or opposition of an agenda item (without speaking).

If you want to speak at this meeting you must register. You can register at https://www.cityofmadison.com/MeetingRegistration. When you register to speak, you will be sent an email with the information you will need to join the virtual meeting.

- 3. Watch the Meeting: If you would like to join the meeting as an observer, please visit https://www.cityofmadison.com/watchmeetings.
- 4. Listen by phone

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833 928 4610 US Toll-free

877 853 5257 US Toll-free

Meeting ID: 863 9987 0880

Find your local number: https://cityofmadison.zoom.us/u/kczplqG6gH

If you need an interpreter, translator, materials in alternate formats or other accommodations to access this service, activity or program, please call the phone number below at least three business days prior to the meeting.

Si necesita un intérprete, un traductor, materiales en formatos alternativos u otros arreglos para acceder a este servicio, actividad o programa, comuníquese al número de teléfono que figura a continuación tres días hábiles como mínimo antes de la reunión.

Yog hais tias koj xav tau ib tug neeg txhais lus, ib tug neeg txhais ntawv, cov ntawv ua

lwm hom ntawv los sis lwm cov kev pab kom siv tau cov kev pab, cov kev ua ub no (activity) los sis qhov kev pab cuam, thov hu rau tus xov tooj hauv qab yam tsawg peb hnub ua hauj lwm ua ntej yuav tuaj sib tham.

For accommodations, contact: Jody Berndt, (608) 206-1718, jberndt@madisonwater.org.

CALL TO ORDER / ROLL CALL

APPROVAL OF MINUTES

Meeting minutes for 9/25/2024: https://madison.legistar.com/View.ashx?

PUBLIC COMMENT

1. <u>16738</u> General Public Comment

DISCLOSURES AND RECUSALS

Members of the body should make any required disclosures or recusals under the City's Ethics Code.

NEW BUSINESS

2.	<u>85740</u>	Commending and expressing appreciation to Joe DeMorett (Joe), Water Supply
		Manager, on retirement from Madison Water Utility (Utility) after 16 years of
		service, in addition to his previous 15 years of service as the City of Madison's
		(City) Hydrogeologist.

<u>Attachments:</u> <u>Item 2 - Memo - Joe Demorett Commendation.pdf</u>

Item 2 - Joe Demorett Commemdation Resolution No. 85740.pdf

- 3. <u>85741</u> Proposed Water Resources Section
 - Attachments: Item 3 Memo Proposed Water Resources Section.pdf
- 4. 85742 Water Quality Report October 2024

Attachments: Item 4 - Memo - Water Quality Report.pdf

Item 4 - Attachment A - Watch List Summary.2024.1022.pdf

Item 4 - Attachment B - Water Quality Test Results Summary - 2024.pdf

- 5. 85743 Annual Election of Board Officers
- 6. <u>85744</u> Water Production Monthly Report

Attachments: <u>Item 6 Memo - Water Production Report October 2024.pdf</u>

Item 6 Attachment A - Daily and Cumulative Water Production October 2024.pc

Item 6 Attachment B - Unit Well Capacity Utilization October 2024.pdf

7. 85745 Financial Conditions Monthly Report

		Attachments:	Item 7 - Memo - Financial Conditions Report October 2024.pdf Item 7 - Attachment Financial Conditions Report as of 9.30.24.pdf
8.	<u>85746</u>	Capital Proje	ects Monthly Report
		Attachments:	Item 8 - Memo - Capital Projects Monthly Report 2024-10-22.pdf
			<u>Item 8 - Attachment - Capital Projects Monthly Report 2024-10-22.pdf</u>
9.	<u>85747</u>	Operations I	Monthly Report
		Attachments:	Item 9 - Memo - Monthly Operations report October 2024.pdf
			Item 9 - Attachment - Monthly Operations Report October 2024.pdf
10.	<u>85748</u>	Public Inforn	nation Monthly Highlight
		Attachments:	Item 10 - Memo - Public Information Report.pdf
			Item 10 Attachment A - Utility Highlights.pdf
11.	<u>84022</u>	Meeting Eva	aluation and Discussion
		Attachments:	Board_Evaluation - Copy.pdf

ADJOURNMENT



City of Madison Madison, WI 53703 www.cityofmadison.com

Master

File Number: 16738

File ID: 16738 File Type: Miscellaneous Status: In Committee

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 11/24/2009

File Name: Written Public Comments Final Action:

Title: General Public Comment

Notes:

Sponsors: Effective Date:

Attachments: Enactment Number:

Author: Hearing Date:

Entered by: arobb@cityofmadison.com Published Date:

History of Legislative File

 Ver Acting Body:
 Date:
 Action:
 Sent To:
 Due Date:
 Return
 Result:

 sion:
 Date:

Text of Legislative File 16738

Title

General Public Comment



City of Madison Madison, WI 53703 www.cityofmadison.com

Master

File Number: 85740

File ID: 85740 File Type: Resolution Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

Final Action:

Enactment Number:

File Name: Commending and expressing appreciation to Joe

DeMorett (Joe), Water Supply Manager, on

retirement from Madison Water Utility (Utility) after 16 years of service, in addition to his previous 15 years

of service as the City of Madison's (City)

Hydrogeologis

Title: Commending and expressing appreciation to Joe DeMorett (Joe), Water Supply

Manager, on retirement from Madison Water Utility (Utility) after 16 years of service, in addition to his previous 15 years of service as the City of Madison's

(City) Hydrogeologist.

Notes:

Sponsors: Effective Date:

Attachments: Item 2 - Memo - Joe Demorett Commendation.pdf,

Item 2 - Joe Demorett Commemdation Resolution

No. 85740.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Resolution was Refer to the WATER UTILITY BOARD					

Text of Legislative File 85740

.TITLE

Commending and expressing appreciation to Joe DeMorett (Joe), Water Supply Manager, on retirement from Madison Water Utility (Utility) after 16 years of service, in addition to his previous 15 years of service as the City of Madison's (City) Hydrogeologist.

.BODY

WHEREAS, Joe was hired by the City of Madison Engineering Division as a Hydrogeology Specialist, in April 1993, after a 3-year stint with British Petroleum in which he worked on an oil

rig in the Gulf of Mexico; AND

WHEREAS, Joe earned a Bachelor of Science degree in Geology and Geography with a minor in Mathematics from Bemidji State University, in Bemidji, MN, and a Masters of Science degree in Geomorphology from Texas A&M University where his thesis was rock glacier hydrology and water quality; AND

WHEREAS, during his time with the Engineering Division, Joe maintained an excellent working relationship with the Department of Natural Resources during major investment projects, valued at \$40M, for the City's closed landfills; AND

WHEREAS, in the capacity of City Hydrogeologist, he led pump tests at Madison Municipal Wells 16, 17, and 18; AND

WHEREAS, Joe reluctantly transferred to the Water Utility, after 15 years with the Engineering Division, and only after then interim Water Utility General Manager, and City Engineer, enticed Joe by offering a City vehicle that would be personally-assigned to him, which he continued to drive throughout his tenure at the Utility; AND

WHEREAS, Joe has served as the Utility's Water Supply Manager since April 2008; AND,

WHEREAS, during his tenure at the Utility, Joe has tirelessly advocated for and implemented variable frequency drives on nearly all Utility pump motors, whenever possible, increasing the number in use from two in 2008 to over 30 today; AND

WHEREAS, Joe has guided efforts to modernize & automate the Utility's SCADA [Supervisory Control and Data Acquisition] system, including the transition from radio communication to more efficient fiber optic communication; add flow meters on inlet and outlet pipes of large water storage tanks; improve chemical leak detection systems and make other safety improvements; and promote strong Cybersecurity measures; AND

WHEREAS, more recently, Joe has spearheaded water supply resiliency projects to facilitate transfers between areas of excess and areas of deficiency, building flexibility into system operations, which has delayed the need for costly new supply points, thereby deferring millions of dollars in capital spending; AND,

WHEREAS, Joe has been an integral member of the emergency response planning teams of the Utility, City, and Dane County, and advocate for sustainability, including the addition of solar panels on Utility buildings.

NOW, THEREFORE, BE IT RESOLVED, that the Water Utility Board hereby commends and thanks Joe for his years of dedicated service to Madison Water Utility and the City of Madison.



www.madisonwater.org • 119 East Olin Avenue • Madison, WI 53713 -1431 • TEL 608.266.4651 • FAX 608.266.4426

MEMORANDUM

Date:

To: Water Utility Board

From: Krishna Kumar, General Manager

Subject: Commendation Resolution for Joe DeMorett, Water Quality

Manager

RECOMMENDTION:

Adopt Resolution No. 85740 commending and expressing appreciation to Joe DeMorett (Joe), Water Supply Manager, on retirement from Madison Water Utility (MWU) after 16 years of service, in addition to his previous 15 years of service as the City of Madison's Hydrogeologist.

BACKGROUND:

Water Supply Manager Joe Demorett has announced his retirement from Madison Water Utility (Utility) after 16 years of service, in addition to his previous 15 years of service as the City of Madison's Hydrogeologist.

Joe's last day in the office is planned to be Friday, November 22. Since 2008, Joe has served as the Utility's Water Supply Manager. During his tenure, Joe advocated for and implemented variable frequency drives, metering of inflows / outflows of large water tanks & reservoirs, chemical leak detection and safety improvements, modernization of our SCADA, and Cybersecurity measures. More recently, Joe has spearheaded water supply resiliency projects to facilitate transfers between areas of excess and areas of deficiency.

Please join me in congratulating Joe on his much-deserved retirement! A celebratory luncheon is being planned in his honor for Thursday, November 21 at the Utility's Olin Office.

ATTACHMENTS:

1. Commendation Resolution (File No. 85740) for Joe DeMorett, Water Quality Manager



City of Madison Madison, WI 53703 www.cityofmadison.com

Legislation Text

File #: 85740, Version: 1

.TITLE

Commending and expressing appreciation to Joe DeMorett (Joe), Water Supply Manager, on retirement from Madison Water Utility (Utility) after 16 years of service, in addition to his previous 15 years of service as the City of Madison's (City) Hydrogeologist.

.BODY

WHEREAS, Joe was hired by the City of Madison Engineering Division as a Hydrogeology Specialist, in April 1993, after a 3-year stint with British Petroleum in which he worked on an oil rig in the Gulf of Mexico; AND

WHEREAS, Joe earned a Bachelor of Science degree in Geology and Geography with a minor in Mathematics from Bemidji State University, in Bemidji, MN and a Masters of Science degree in Geomorphology from Texas A&M University where his thesis was rock glacier hydrology and water quality; AND

WHEREAS, during his time with the Engineering Division, Joe maintained an excellent working relationship with the Department of Natural Resources during major investment projects, valued at \$40M, for the City's closed landfills; AND

WHEREAS, in the capacity of City Hydrogeologist, he led pump tests at Madison Municipal Wells 16, 17, and 18; AND

WHEREAS, Joe reluctantly transferred to the Water Utility, after 15 years with the Engineering Division, and only after then interim Water Utility General Manager, and City Engineer, enticed Joe by offering a City vehicle that would be personally-assigned to him, which he continued to drive throughout his tenure at the Utility; AND

WHEREAS, Joe has served as the Utility's Water Supply Manager since April 2008; AND,

WHEREAS, during his tenure at the Utility, Joe has tirelessly advocated for and implemented variable frequency drives on nearly all Utility pump motors, whenever possible, increasing the number in use from two in 2008 to over 30 today; AND

WHEREAS, Joe has guided efforts to modernize & automate the Utility's SCADA [Supervisory Control and Data Acquisition] system, including the transition from radio communication to more efficient fiber optic communication; add flow meters on inlet and outlet pipes of large water storage tanks; improve chemical leak detection systems and make other safety improvements;, and promote strong Cyber Security measures; AND

WHEREAS, more recently, Joe has spearheaded water supply resiliency projects to facilitate transfers between areas of excess and areas of deficiency, building flexibility into system operations, which has delayed the need for costly new supply points, thereby deferring millions of dollars in capital spending; AND,

WHEREAS, Joe has been an integral member of the emergency response planning teams of the Utility, City, and Dane County, and advocate for sustainability, including the addition of solar panels on Utility buildings.

NOW, THEREFORE, BE IT RESOLVED, that the Water Utility Board hereby commends and thanks Joe for his years of dedicated service to Madison Water Utility and the City of Madison.



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Master

File Number: 85741

File ID: 85741 File Type: Miscellaneous Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Proposed Water Resources Section Final Action:

Title: Proposed Water Resources Section

Notes:

Sponsors: Effective Date:

Attachments: Item 3 - Memo - Proposed Water Resources Enactment Number:

Section.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Miscellaneous was					

Text of Legislative File 85741

.TITLE

Proposed Water Resources Section

.BODY

RECOMMENDATION

Staff proposes combining the Water Quality and Water Supply sections of the Madison Water Utility (Utility) into a combined Water Resources section. The new section will be led by Joe Grande in his new capacity as the new Water Resources Manager. This transition will be effective October 27, 2024. City's Human Resources Department has approved this transition.

BACKGROUND

The retirement of Joe Demorett, Water Supply Manager, gives the Utility an opportunity to create a new Water Resources section by combining the current Water Supply and Water Quality sections into one combined section, which has several advantages over the current set up as outlined below. The Water Resources Manager will lead and manage the new section.

The Water Supply and Water Quality sections of the Water Utility carry out complementary and often inter-related functions. Collectively, they ensure the provision of safe, high-quality water for consumption and adequate storage for fire protection. Combining the two sections offers synergies and cost savings and present opportunities for more flexible staffing and improvement of the customer experience.

There are multiple areas of overlapping responsibility within the two existing sections. Field staff from both the sections collect samples, take readings, and report water quality information. This data gathering impacts water supply, system operation, and facilities and equipment maintenance. Combining the two sections will provide flexibility through the interchangeability of staff to accomplish interrelated objectives, all under one manager.

Currently operation and oversight of chemical feed equipment and monitoring of chemical residuals is jointly performed by the Supply and Quality sections. However, significant delays may arise between the data collection and reporting by Water Quality section staff and implementation of needed operational adjustments by Water Supply section. Under a single umbrella of responsibility, timely changes can be more easily made.

Combining the two sections reduces the possibility of a mismatch between water supply and water quality objectives and provides a more balanced, sustainable approach to management of the groundwater resource - from the day-to-day operational needs to the long-term use and protection of this highly valued community resource.

For the reasons outlined above, staff is proposing combining the Utility's Water Quality and Water Supply sections into a combined Water Resources section effective October 27, 2024.



119 East Olin Avenue, Madison, WI 53713

TEL 608-266-4651

FAX 608-266-4426

MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Krishna Kumar, General Manager

Subject: Proposed Water Resources Section

RECOMMENDATION

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Master

File Number: 85742

File ID: 85742 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Water Quality Report - October 2024 Final Action:

Title: Water Quality Report - October 2024

Notes:

Sponsors: Effective Date:

Attachments: Item 4 - Memo - Water Quality Report.pdf, Item 4 - Enactment Number:

Attachment A - Watch List Summary.2024.1022.pdf, Item 4 - Attachment B - Water Quality Test Results

Summary - 2024.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Report was Refer t					

Text of Legislative File 85742

.TITLE

Water Quality Report - October 2024

.BODY

BACKGROUND

Board governance policy requires that Madison Water Utility consumers will receive high quality water that meets or is better than all primary and secondary drinking water standards, including their public notification requirements, and complies with board-adopted water quality goals, incorporated by attachment.

The Madison Water Utility recognizes that drinking water standards are subject to revision and that new compounds of concern will be determined. This dynamic is a result of health studies being conducted by health organizations and government agencies on the state, national and international level. The technology to quantify compounds at increasingly minute levels is constantly improving.

The Madison Water Utility shall maintain and promulgate a Watch List of compounds of concern by unit well of compounds that are increasing and may approach the primary and secondary drinking water standards. The Watch List shall identify which wells require action.

The Water Quality Report summarizes the results of the 23,530 water quality tests including coliform bacteria; treatment chemicals (chlorine and fluoride); and inorganic, volatile organic and unregulated contaminants, including PFAS, conducted in 2024 through September 30.

Water Quality Test Type Number of Tests

Bacteria:

Total Coliform / E. coli 2,609 Chemical:

- 1. Iron & Manganese 2,896
- 2. PFAS 540
- 3. Other 17,485

During this period, there were no reportable water quality violations; however, iron and manganese at Well 8, and sodium at Well 14 exceed a Water Utility Board treatment policy. Summarized results follow as attachments.

ATTACHMENTS:

- A. Watch List Summary October 2024
- B. Water Quality Test Results Summary 2024



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FAX 608-266-4426

MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Joe Grande, Water Quality Manager

Krishna Kumar, General Manager

Subject: Water Quality Report – October 2024

BACKGROUND

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ATTACHMENTS:

- A. Watch List Summary October 2024
- B. Water Quality Test Results Summary 2024

MADISON WATER UTILITY

Watch List Summary - October 2024

Number of Contaminants Above 50% of a Drinking Water Regulation (MCL) or Guideline (SMCL)

ACTIVE WELLS	50% - 80% MCL	80% - 100% MCL	>MCL	Contaminant: Action Plan
Well 06	1			PFAS (PFHxS): Monitor
Well 18	1			VOC (PCE): Monitor
Well 19	1			Radium: Monitor
Well 27		1		Radium: Vertical Flow Profile Planned
Well 28	1			Radium: Monitor

ACTIVE WELLS	50% - 80% SMCL	80% - 100% SMCL	>SMCL	Contaminant: Action Plan
Well 06	1			Sodium: Monitor
Well 14		1	1	Sodium : Investigation & Well Remediation Complete; Chloride
Well 16	1			Sodium: Monitor
Well 17	1			Manganese: Monitor
Well 18	1			Manganese: Monitor
Well 19	1	1		Manganese: Treatment Addition Under Construction; Iron
Well 24	1	1		Iron and Manganese: Monitor
Well 27	2			Iron and Manganese: Monitor
Well 28	1			Iron: Monitor
Well 30	1			Iron: Monitor

ACTIVE WELLS

Limited or No Water Quality Impact (Contaminants Below 50% MCL or SMCL)

Well 07, Well 09, Well 11, Well 12, Well 13, Well 20, Well 25, Well 26, Well 29, Well 31

INACTIVE WELLS

Temporarily Out of Service Due to Water Quality Issue

Well 08	1	2	Iron and Manganese; Radium
Well 15		3	PFAS [PFOA,PFOS, & PFHxS]: Treatment Plant Under Construction

TOTAL

15

4

6

KEY:

MCL = Maximum Contaminant Level: enforceable, health-based standard

SMCL = Secondary MCL: non-enforceable guideline based on aesthetics (taste, odor, or appearance)

^ Assessment is after any treatment and at point of entry to distribution system

WatchList.2024.1022.xlsx 10/14/2024 jdg **17**

2024	2024 Total Coliform		Chlorine	Residual	Fluc	Fluoride		
Month	# Samples	# TC Positive	# Samples	# <0.1 mg/L	# Samples	Ave (mg/L)		
January	306	2	1118	1	585	0.68		
February	281	7	1075	0	535	0.67		
March	260	6	1047	0	548	0.66		
April	325	0	1077	0	530	0.66		
May	294	0	1089	1	542	0.66		
June	257	1	1089	7	536	0.67		
July	314	2	1153	3	561	0.68		
August	271	3	1157	5	562	0.68		
September	301	7	1163	3	559	0.70		
October								
November								
December								
TOTAL	2609	28	9968	20	4958	0.67		
		1.1%		0.20%				

Target: 0.7 mg/L

A. Inorganics - Regulated

PARAMETER	UNITS	MCL	DETECTS	MINIMUM	MEDIAN	MAXIMUM
Antimony	μg/L	6	0	<0.3	<0.3	<0.3
Arsenic	μg/L	10	0	<1.1	<1.1	<1.1
Barium	μg/L	2000	20	7.2	21	69
Beryllium	μg/L	4	0	<0.06	<0.06	<0.06
Cadmium	μg/L	5	0	<0.1	<0.1	<0.1
Chromium, Total	μg/L	100	4	<1.2	<1.2	2.6
Copper	μg/L	AL: 1300	20	0.8	3.5	24
Fluoride	mg/L	4	20	0.5	0.7	0.8
Lead	μg/L	AL: 15	1	<0.3	<0.3	0.4
Mercury	μg/L	2	0	<0.05	<0.05	<0.05
Nickel	μg/L	100	8	<1.0	<1.0	2.5
Nitrogen - Nitrate	mg/L	10	13	<0.2	0.8	4.1
Nitrogen - Nitrite	mg/L	1	0	<0.01	<0.01	<0.01
Selenium	μg/L	50	3	<1.0	<1.0	1.5
Thallium	μg/L	2	0	<0.8	<0.8	<0.8

B. Inorganics - Unregulated

PARAMETER	UNITS	SMCL	DETECTS	MINIMUM	MEDIAN	MAXIMUM
Alkalinity (CaCO3)	mg/L		20	260	295	350
Aluminum	μg/L	50	0	<9.0	<9.0	<9.0
Calcium	mg/L		20	55	69	110
Chloride	mg/L	250	20	1.6	16	210
Conductivity	umhos / cm		20	500	635	1400
Hardness (CaCO3)	mg/L		20	270	335	530
Iron	mg/L	0.3	7	<0.04	< 0.04	0.3
Magnesium	mg/L		20	32	41	62
Manganese	μg/L	50	14	<0.5	2.5	45
pH (Lab)	s.u.		20	7.0	7.2	7.5
Silver	μg/L	100	2	<0.3	<0.3	1.9
Sodium	mg/L		20	2.3	7.3	64
Strontium	μg/L		20	49	82	100
Sulfate	mg/L	250	20	6.6	18	39
Zinc	μg/L	5000	16	<1.8	3.8	8.8

AL - Action Level

MCL - Maximum Contaminant Level

SMCL - Secondary Maximum Contaminant Level

Water Quality Test Results Summary - 2024

C. Iron - Wells

SMCL: Secondary Maximum Contaminant Level is 0.3 mg/L

SOURCE	UNITS	SAMPLES	MINIMUM	MEDIAN	MAXIMUM
Well 7*	mg/L	9	<0.01	0.06	0.08
Well 8	mg/L	1	0.58	0.58	0.58
Well 17	mg/L	6	0.09	0.13	0.14
Well 19	mg/L	9	0.19	0.21	0.22
Well 24	mg/L	8	0.22	0.25	0.33
Well 26 [#]	mg/L	8	<0.01	<0.01	0.01
Well 27	mg/L	9	0.12	0.16	0.17
Well 28	mg/L	9	0.17	0.17	0.18
Well 29*	mg/L	9	<0.01	<0.01	<0.04
Well 30	mg/L	9	0.19	0.21	0.22
Well 31*	mg/L	9	<0.01	<0.01	<0.04

D. Manganese - Wells

SMCL: Secondary Maximum Contaminant Level is 50 µg/L

SOURCE	UNITS	SAMPLES	MINIMUM	MEDIAN	MAXIMUM
Well 7*	μg/L	9	<2.0	2.6	3.7
Well 8	μg/L	1	49	49	49
Well 17	μg/L	6	30	33	34
Well 19	μg/L	9	43	45	53
Well 24	μg/L	8	28	31	37
Well 26 [#]	μg/L	8	<2.0	<2.0	33
Well 27	μg/L	9	30	31	36
Well 28	μg/L	9	20	22	25
Well 29*	μg/L	9	1.5	<2.0	2.1
Well 30	μg/L	9	13	14	15
Well 31*	μg/L	9	<0.5	<2.0	<2.0

^{*} Filtered

[#] Raw water

Water Quality Test Results Summary - 2024

E. Iron - Distribution

SMCL: Secondary Maximum Contaminant Level is 0.3 mg/L

	UNITS	Q1	Q2	Q3	Q4
Policy Goal	mg/L	0.3	0.3	0.3	0.3
Median	mg/L	0.018	0.013	0.013	
Average	mg/L	0.05	0.05	0.038	
95th Percentile	mg/L	0.19	0.21	0.15	
Maximum	mg/L	0.33	0.45	0.22	
Number of Samples		43	43	42	
Samples >0.3 mg/L		1	1	0	

F. Manganese - Distribution

SMCL: Secondary Maximum Contaminant Level is 50 µg/L

	UNITS	Q1	Q2	Q3	Q4
Policy Goal	μg/L	50	50	50	50
Median	μg/L	<2.0	<2.0	<2.0	
Average	μg/L	7.7	5.2	6.2	
95th Percentile	μg/L	26	18	21	
Maximum	μg/L	74	29	28	
Number of Samples		43	43	42	
Samples >50 μg/L		1	0	0	

^{*} Includes duplicate samples

Water Quality Test Results Summary - 2024

G. Organic Contaminants

1. Overview - Volatile and Synthetic Organics (VOC & SOC)

	TYPE	UNITS	MCL	MAXIMUM	WELLS
1,1-Dichloroethylene	VOC	μg/L	7	0.18	#18
cis 1,2-Dichloroethylene	VOC	μg/L	70	0.40	7 & 11
Tetrachloroethylene [PCE]	VOC	μg/L	5	2.8	6,7,9,11,18
Trichloroethylene [TCE]	VOC	μg/L	5	0.37	7,11,18
Trichlorofluoromethane	VOC	μg/L		0.81	9 & 11
PFAS: PFBA	SOC	ng/L		47	#9
PFAS: PFHXS	SOC	ng/L	10*	7.3	#6

^{*} Used to calculate a Hazard Index, which must be less than 1.0

2. Detail - Volatile Organics (VOC)

	MCL	Well #6	Well #7	Well #9	Well #11	Well #18
Tetrachloroethylene [PCE]	5 μg/L	1.9 - 2.8	1.0 - 1.3	1.4 - 1.7	0.65 - 0.92	2.2 - 2.7
Number of Samples		3	3	3	3	3

H. Radium (226 + 228)

	Number of Samples	Results, pCi/L	Annual Average of Quarterly Samples	NOTE: MCL = 5 pCi/L; based on running annual average of quarterly samples
Well 07	1	2.5	Not Applicable	
Well19	5*	2.9 - 5.1	3.2 - 3.9	
Well 24	1	1.6	Not Applicable	
Well 27	5*	2.7 - 5.3	3.2 - 4.1	
Well 30	1	2.2	Not Applicable	

^{*} Includes duplicate samples

I. Unregulated Contaminants

Parameter	Units	Detects	Results	Wells with Detections
Chromium, Hexavalent	μg/L	13 of 20	<0.02 - 2.0	All except 7,19,24,27,28,30,31
1,4-Dioxane	μg/L	4 of 8	<0.07 - 0.40	9,11,18
Strontium	μg/L	20 of 20	49 - 100	All Wells



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Master

File Number: 85743

File ID: 85743 File Type: Miscellaneous Status: In Committee

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Annual Election of Board Officers Final Action:

Title: Annual Election of Board Officers

Notes:

Sponsors: Effective Date:

Attachments: Enactment Number:

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Miscellaneous was	Refer to the V	VATER UTILITY BOARD			

Text of Legislative File 85743

.TITLE

Annual Election of Board Officers

.BODY

Annual proceedings to elect board of officers.



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Master

File Number: 85744

File ID: 85744 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Water Production Monthly Report Final Action:

Title: Water Production Monthly Report

Notes:

Sponsors: Effective Date:

Attachments: Item 6 Memo - Water Production Report October Enactment Number:

2024.pdf, Item 6 Attachment A - Daily and

Cumulative Water Production October 2024.pdf, Item 6 Attachment B - Unit Well Capacity Utilization

October 2024.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Report was Refer t	o the WATER UTILITY B				

Text of Legislative File 85744

.Title

Water Production Monthly Report

.Body

See corresponding memos and attachments.



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MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Joseph DeMorett, Water Supply Manager

Krishna Kumar, General Manager

Subject: Water Production Report

BACKGROUND

Board governance policy requires that current and future customers will receive water that meets or exceeds industry-accepted levels of service for fire protection and pressure.

This includes:

- 1. Water delivered to hydrants at proper flow rates for fire protection.
- 2. Water delivered to the customer tap at a pressure that meets industry-accepted low, high, and emergency operation criteria.
- 3. Water used for outdoor irrigation under drought-free conditions.

The Water Supply Section of the Utility strives hard to meet or exceed the expectations laid out above. The Monthly Water Production and Unit Well Cumulative Capacity Utilization Reports as of September 30, 2024, reflecting these efforts are attached.

ATTACHMENTS

- A. Monthly Water Production as of September 30, 2024
- B. Unit Well Cumulative Capacity Utilization as of September 30, 2024

Attachment A

Madison Water Utility Daily and Cumulative Water Production

			Daily Production (MGD)			Year-to-Date Cumulative Production (In billion gallons)			
Hydrological	No. of		Reliable	Septemb	oer 2024			30-Sep	
Regions	Wells	Max Daily Capacity	Dailu	Average Daily Production	Regional Surplus / (Deficiency)	2022 Actual	2023 Actual	2023	2024
А	6	14.8	8.9	7.1	1.8	2.5	2.4	1.9	1.8
В	2	5.4	2.4	1.9	0.5	0.6	0.6	0.5	0.5
С	10	28.8	22.3	14.0	8.3	4.5	4.6	3.6	3.3
D	3	9.1	5.9	4.8	1.1	1.5	1.6	1.2	1.1
System Total	21	58.1	39.5	27.8	11.7	9.1	9.2	7.2	6.7

Attachment B

Madison Water Utility Unit Well Cumulative Capacity Utilization 9/30/2024

Region	Unit Well	YTD Production (MG)	YTD Utilization (%)	Remaining Drawdown to Pump (ft)
Α	7	396	45.6%	121
	8	0	0.0%	Out of Service
	11	457	55.4%	29
	13	363	35.1%	127
	25	210	26.6%	41
	29	379	42.9%	166
	All	1,805	45.7%	
В	9	223	34.5%	40
	31	261	30.1%	131
	All	485	32.0%	
С	6	462	45.0%	Out of Service
	12	434	48.5%	38
	14	79	8.2%	67
	17	241	26.7%	60
	18	422	53.5%	92
	19	386	41.6%	22
20		333	41.1%	37
24		247	30.5%	67
	27	270	38.6%	39
	30	465	49.2%	88
	All	3,338	38.1%	
D	16	304	33.5%	57
	26	472	53.2%	Out of Service
	28	353	39.8%	12
	All	1,129	42.1%	
Entire System		6,757	39.9%	



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Master

File Number: 85745

File ID: 85745 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

Enactment Number:

File Name: Financial Conditions Monthly Report Final Action:

Title: Financial Conditions Monthly Report

Notes:

Sponsors: Effective Date:

Attachments: Item 7 - Memo - Financial Conditions Report October

2024.pdf, Item 7- Attachment Financial Conditions

Report as of 9.30.24.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY			
	Action Text:	This Miscellaneous was	Refer to the WATER U	BOARD ITILITY BOARD			

Text of Legislative File 85745

.Title

Financial Conditions Monthly Report

.Body

See corresponding memo and attachments.



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MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: January Vang, Finance and Administrative Manager

Subject: Monthly Financial Report – Operating and Capital Funds

BACKGROUND

Board governance policy requires that the Utility shall not cause or allow the development of fiscal jeopardy or a material deviation of actual expenditures from board priorities established in Outcomes policies. Accordingly, the Utility shall not cause or allow conditions, procedures, or decisions that:

- 1. Fail to ensure long-term financial health.
- 2. Fail to present a balanced annual operating budget and quarterly updates on actual expenditures and income.
- 3. Exceed total appropriations for the fiscal year, unless directed to do so by the board.
- 4. Use any dedicated reserves for purposes other than those for which they are designated, unless directed to do so by the board.
- 5. Undertake a debt without payoff schedule and identification of revenue stream.
- 6. Fail to establish an unrestricted reserve equal to a typical three months' operating expenses.
- 7. Fail to inform the board of where the utility stands with any current rate case in progress.
- 8. Fail to be able to provide a concise summary of the financial condition of the utility at any time.
- 9. Fail to adjust spending related to revenue shortfalls in a budget deficit.

The Finance Section of the Utility strives hard to meet or exceed the expectations laid out above. The monthly financial update provided in the attached Budget to Actual comparison, as of September 30, 2024, reflecting these efforts is attached.

As of September 30, 2024:

- Water revenues are up \$238 thousand compared to budget. Pumpage was down 4.6% during this time period.
- Operating Fund balance is \$16.4 million.
- Capital Fund expenditures is \$22.6 million, of which \$15 million is encumbrances.
- Capital Fund balance is \$2 million.

MadCAP Data Summary (as of October 14, 2024)

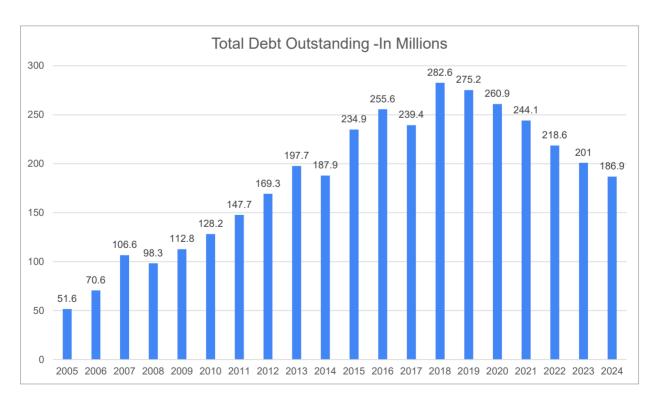
	AMI <30%	AMI >30% and <50%	Total
Total Applications Received	324	199	523
Total Applications Approved	222	127	349
Homeowners	134	88	222
Renters	88	39	127
Total Applications Not Approved	102	72	174
Households Newly Enrolled in Conservation			
Programs	83	44	127

ATTACHMENTS:

A. Budget to Actual comparison as of September 30, 2024

	Madison '	Water Utility			
	Budget to Act	ual Comparison			
	As of Septe	mber 30, 2024			
	FY 2022 Actual	FY 2023 Actual	FY 2024 Budget	Year to Date Sepember 30, 2024	Projected 2024
Operating Fund					
Revenues:					
Sales of water (Operations)	\$ 46,706,428	\$ 52,008,356	\$ 51,512,500	\$ 37,256,583	\$ 51,512,500
Other Revenues	1,539,894	1,704,401	1,174,000	658,706	\$ 1,174,000
Interest Income	719,880	1,840,905	894,000	1,233,448	\$ 1,400,000
Total Revenues	48,966,202	55,553,662	53,580,500	39,148,738	54,086,500
Expenditures:	, ,	, ,	, ,	, ,	, ,
Operating Expenses	17,657,979	18,885,166	21,743,529	13,298,707	21,743,529
Debt Service - Interest & Principal	24,071,874	18,709,260	18,889,317	14,013,521	18,684,694
Transfer Out to City (PILOT)	6,849,831	6,440,655	6,400,000	4,799,997	6,400,000
Total Expenditures	48,579,684	44,035,081	47,032,846	32,112,225	46,828,223
Net Operating Fund Inc(Decr)	386,518	11,518,582	6,547,654	7,036,513	7,258,277
Operating Fund Balance		, , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , .	,,
Opening Fund Balance	8,575,829	6,198,389	12,178,312	12,178,312	12,178,312
Net Operating Fund Inc(Decr)	386,518	11,518,582	6,547,654	7,036,513	7,258,277
Transfer Out to BAN* Repmt Fund	(5,000,000)		- 0,047,004		7,200,277
Transfer Out to Tank Recoat Reserve	(0,000,000)	_	_		(800,000)
Transfer In from BAN Repmt Fund	_	_	_	_	(000,000)
Transfer Out to Capital Fund	(1,543,211)	(2,564,519)	_	(8,500,000)	(8,500,000)
Transfer In from Bond Repmt Fund	2,680,625	-	-	-	-
Transfer In from Investment Acct	2,359,583	-	-	-	-
Accrual Adjustments	(1,260,954)	(2,974,140)	(1,779,000)	5,695,500	(1,779,000)
Ending Fund Balance	\$ 6,198,389				\$ 8,357,588
Construction Fund					
Revenues:					
Bond/Loan Proceeds	-		7,328,000	7,328,000	7,328,000
SDWL Proceeds	-	-	5,135,000	509,648	5,865,724
Sales of Water (Expense Depreciation)	-	4,166,667	5,000,000	3,750,000	5,000,000
Trans from Oper Fund / Reserves	1,543,211	2,564,519	-	8,500,000	8,500,000
Total Capital Revenues	1,543,211	6,731,186	17,463,000	20,087,648	26,693,724
Actual Expenditures & Encumbrances				, ,	, ,
Pipeline	1,100,392	5,122,766	6,339,000	6,729,195	7,500,000
Facility ~	1,193,819	1,825,551	8,683,000	13,653,177	17,883,000
Fleet/Other	1,172,107	1,689,181	2,441,000	2,192,780	2,441,000
Total Capital Expend & Encumb	3,466,318	8,637,497	17,463,000	22,575,152	27,824,000
Net Construction Fund Inc(Decr)	(1,923,107)	(1,906,311)	-	(2,487,504)	(1,130,276)
Construction Fund Balance					
Opening Fund Balance	8,343,939	6,420,832	4,514,521	4,514,521	4,514,521
Net Capital Fund Inc(Decr)	(1,923,107)	, ,		(2,487,504)	(1,130,276)
Ending Fund Balance	\$ 6,420,832		\$ 4,514,521	\$ 2,027,016	\$ 3,384,245
Living i and Dalanot	Ψ 5,720,032	Ψ -1,01-1,021	Ψ - 7,01 - 7,021	Ψ 2,021,010	Ψ 0,007, 2 40

Madison Water Utility							
Cash Reserves & Long-Term Debt							
	ŭ						
	FY 2021 FY 2022		FY 2023				
Cash Reserves	Actual	Actual	Actual	30, 2024			
Restricted:							
Bond Redemption Fund	\$ 14,917,677	\$ 13,164,827	\$ 13,191,166	\$ 9,913,500			
Bond Redemption Reserve Fund	17,295,374	13,970,411	12,190,068	14,711,332			
BAN Repayment Fund	5,000,000	10,000,000	10,000,000	-			
Tank Recoat Reserve	ı	ı	800,000	800,000			
Depreciation Fund	750,000	750,000	750,000	750,000			
PILOT Fund	-	-	-	5,585,400			
Assessment Account	1,351,770	1,504,541	1,858,134	1,858,134			
Revenue Bond Construction Fund	8,343,939	6,420,832	2,548,254	6,167,509			
Expense Depreciation	-	-	1,966,423	4,037,433			
Timing Adjustments	-	-	-	3,502,107			
Unrestricted Cash Balance	8,575,829	6,198,389	16,178,312	16,886,425			
Total Cash & Investments (Munis)	\$ 56,234,588	\$ 52,009,000	\$ 59,482,356	\$ 64,211,840			
No. of months expenditures covered by Operating Reserves	2.54	1.73	4.41	1.58			
by Operating Reserves	2.54	1.73	4.41	1.56			
Debt Coverage Ratio	1.69	1.95	2.61				





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Master

File Number: 85746

File ID: 85746 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Capital Projects Monthly Report Final Action:

Title: Capital Projects Monthly Report

Notes:

Sponsors: Effective Date:

Attachments: Item 8 - Memo - Capital Projects Monthly Report Enactment Number:

2024-10-22.pdf, Item 8 - Attachment - Capital Projects Monthly Report 2024-10-22.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Report was Refer t	to the WATER UTILITY B				

Text of Legislative File 85746

.TITLE

Capital Projects Monthly Report

.BODY

See corresponding memo and attachments.



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MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Pete Holmgren, P.E. – Chief Engineer

Krishna Kumar - General Manager

Subject: Capital Projects Report

BACKGROUND

Board governance policy requires that the Utility shall not cause or allow conditions, procedures, or decisions that prevent the Madison Water Utility from meeting its obligation to serve current and future generations of customers within the City of Madison and its authorized service areas. Accordingly, the Utility shall not cause or allow conditions, procedures, or decisions that:

- Fail to assure that required rates fund all expenditures for timely and prudent capital
 improvements to existing utility systems, and that those capital improvements are driven
 by reliability, operational or regulatory requirements, replacement of aging
 infrastructure, utility relocations for public works and road projects, extension of the life
 of existing systems, or customer input.
- 2. Fail to identify and plan for resource and infrastructure needs for the provision of water service to customers in a timely manner.
- Fail to coordinate Madison Water Utility activities and policies with the City of Madison's Comprehensive Plan and other relevant guidelines for community development.
- 4. Fail to consider participation with other governmental or private entities on regional major water infrastructure or water supply planning projects.

The Engineering Section of the Utility strives to meet or exceed the expectations laid out above. The monthly Capital Budget to Actual Monthly Report reflecting these efforts is attached.

SUMMARY

The attached 2024 Capital Budget Monthly Report presents the total of both actual capital expenditures *and* encumbrances through September 2024; this total is ~\$22,575,000.

The 2024 actual expenditures in September total ~\$587,000 and consist of:

- ~\$189,000 in facility expenses
- ~\$72,000 in fleet/other expenses
- ~\$326,000 in pipeline expenses

For expense depreciation related to water main replacement projects:

- The total targeted spend amount in 2024 is \$5,000,000.
- The estimated amount spent through September 2024 is over \$5,000,000; the targeted spend amount is now estimated to have been met.

Please refer to the attached report for additional information, which also includes project updates for:

- Major Capital Project Unit Well 19
- Major Capital Project Unit Well 15
- Major Capital Project Unit Well 12

ATTACHMENTS:

1. Capital Projects Monthly Report - October 2024

WATER UTILITY BOARD

CAPITAL PROJECTS MONTHLY REPORT



Pete Holmgren, P.E. Chief Engineer

October 22, 2024





- PRESENTATION OVERVIEW:
 - 1. Actual Expenditures and Encumbrances Through September 2024
 - 2. Water Main Replacement Expense Depreciation Through September 2024
 - 3. Capital Project Updates:
 - Unit Well 19 Fe, Mn, Radium Treatment Facility
 - Unit Well 15 PFAS Treatment Facility
 - Unit Well 12 Reconstruction



2024 Actual Expenditures and Encumbrances (Through September):

- Total of Actual Expenditures and Encumbrances: ~\$22,575,000
- September 2024 Actual Expenditures (~\$587,000):
 - 1. Facilities: ~\$189,000
 - Wells 15 & 19 Treatments; Well 29 Roof; Olin Ave. Conference Room
 - 2. Fleet/Other: ~\$72,000
 - New F150 Lightning (Truck), Raise/Replace/Move Hydrants
 - 3. Pipelines: ~\$326,000
 - Stevens Street Resurfacing; Lake Mendota Drive Reconstruction



2024 Water Main Expense Depreciation (Through September):

- 2024 targeted spend amount: \$5,000,000
- Current estimated amount spent: OVER \$5,000,000
- Target is estimated to have been met for 2024



Project Update: Well 19 Fe, Mn, Radium Treatment Facility

- Project Budget: \$9,088,000 (2024 Budget: \$8,116,000)
 - Current Status: Construction
 - Concrete work for backwash tank and building additions, water-tightness testing
 - Site backfill, generator replacement and gas/electrical service upgrades
 - Pay request #1 under review
 - Completed consultant contract extension through 2025
 - Upcoming:
 - Facility shutdown (October); preparation of work on and inside existing building





Project Update: Well 15 PFAS Treatment Facility

- Project Budget: \$5,943,000
 - Current Status: Construction
 - Steel beam installation work
 - Cleaning and preparation for underground tank reconstruction
 - Structural review and inspection
 - Wall demolition (ground-level) for new openings
 - Upcoming:
 - Additional site meetings with consultant and contractor



Project Update: Well 12 Reconstruction

- Project Budget: \$4,800,000
 - \$800,000 in 2025 (thru 2027) for design/consultant services
 - SEH, Inc. to act as consultant (also completed original design plans and specifications)
 - \$4,000,000* in 2026 (thru 2027) for construction
 - *Assumes no changes to water storage at site

Project Scope:

- Review output of current 2-zone configuration, evaluate water storage
- Update, review, re-certify plans and specifications originally completed and approved in 2017
- Re-permitting (DNR, PSC, Zoning, etc.)
- Final estimating, bidding, and contract administration
- Construction coordination



Project Update: Well 12 Reconstruction (cont.)

Project Goals:

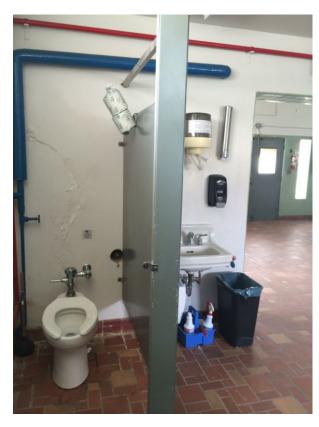
- Update and complete the work that was designed between 2015 and 2017
- Increase operational flexibility between west side pressure zones; redundancy with a 2nd pump
- Completely new building to include chemical feed rooms, deep well piping, and replacement of site piping
- Total replacement and modernization of electrical and control systems



Project Update: Well 12 Reconstruction (cont.)









Project Update: Well 12 Reconstruction (cont.)







Questions / Comments?

Contact Information:

Pete Holmgren

pholmgren@madisonwater.org



City of Madison

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Master

File Number: 85747

File ID: 85747 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

Enactment Number:

File Name: Operations Monthly Report Final Action:

Title: Operations Monthly Report

Notes:

Sponsors: Effective Date:

Attachments: Item 9 - Memo - Monthly Operations report October

2024.pdf, Item 9 - Attachment - Monthly Operations

Report October 2024.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:	This Report was Refer to the WATER UTILITY BOARD					

Text of Legislative File 85747

.TITLE

Operations Monthly Report

.BODY

See corresponding memo and attachment.



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MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Dan Rodefeld, Operations Manager

Subject: Monthly Operations Report

BACKGROUND

Board governance policy require that Madison residents will receive water which is consistent in its availability and quality. Accordingly, residents will:

- a. Experience minimal unplanned service interruptions
- b. Receive adequate notice of planned service interruptions
- c. Receive adequate notice of planned maintenance work that would significantly reduce water flow or pressure, and/or cause water discoloration

The Operations Section of the Utility strives hard to meet or exceed the expectations laid out above. The attached Monthly Operations Report for October 2024 reflecting these efforts is attached.

ATTACHMENTS

A. Monthly Operations Report – October 2024

Madison Water Utility	MONTHLY OPERATIONS REPORT Oct-24				
mwi	Jan-Aug-24	Sep-24	2024 YTD Total		
Hydrants					
Total in Service - 9,512					
No. Replaced	48	3	51		
No. of Inspections	2,858	167	3,025		
No. Repaired	43	43 5			
Unidirectional Flushing Runs	1,567	328	1,895		
Conventional Flushing Runs	661	4	665		
No. Re-painted	1,855	176	2,031		
(Temp Water Connections)	220	20	240		
Valves					
Total System valves - 16,083					
Total Large Service valves - 4,273					
Total Hydrant valves - 7,001					
No. Replaced	45	3	48		
No. of Inspections	7,508	697	8,205		
No. Repaired	98	4	102		
System Leaks					
Total Miles in Service - 924					
Number of Main Leaks Repaired	142	17	159		
Number of Service Leaks Repaired	24	6	30		
Operational Projects					
Cast-in-place pipe lining (feet)	4,700	950	5,650		
Pavement repair (open work orders)	331	17	348		
Pavement repair (closed work orders)	150	90	240		
Terrace repair (open work orders)	300	15	315		
Terrace repair (closed work orders)	379	42	421		



City of Madison

City of Madison Madison, WI 53703 www.cityofmadison.com

Master

File Number: 85748

File ID: 85748 File Type: Report Status: Items Referred

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 10/17/2024

File Name: Public Information Monthly Highlight Final Action:

Title: Public Information Monthly Highlight

Notes:

Sponsors: Effective Date:

Attachments: Item 10 - Memo - Public Information Report.pdf, Item Enactment Number:

10 Attachment A - Utility Highlights.pdf

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

Ver- sion:	Acting Body:	Date:	Action:	Sent To:	Due Date:	Return Date:	Result:
1	Water Utility	10/17/2024	Refer	WATER UTILITY BOARD			
	Action Text:						

Text of Legislative File 85748

.TITLE

Public Information Monthly Highlight

.BODY

See corresponding memo and attachment.



• 119 East Olin Avenue, Madison, WI 53713

TEL 608-266-4651

FAX 608-266-4426

MEMORANDUM

Date: October 22, 2024

To: Water Utility Board

From: Marcus Pearson, Public Information Officer

Krishna Kumar, General Manager

Subject: Public Information Report

BACKGROUND

Madison Water Utility's overarching mission is to supply high quality water for consumption and fire protection, at a reasonable cost, while conserving and protecting our ground water resources for present and future generations. Community trust and awareness is built through our constant commitment to the preservation and protection our aquifer and care for Madison's vital drinking water infrastructure. This is cultivated through a wide variety of efforts performed by Utility staff daily.

The above expectations are met through:

- 1. Operation, maintenance, and management of our system.
- 2. Community Outreach and engagement.
- 3. Customer service.

The Public Information Department of the Utility strives hard to exceed the expectations laid out above. The Monthly Public Information Report encompasses Utility highlights pertaining to events occurring on or after October 1, 2024. The attachment(s) below reflect these efforts.

ATTACHMENTS

A. Water Utility Highlights as of October 1, 2024



WATER UTILITY HIGHLIGHTS

OCTOBER 2024

Municipal Well 6 Pump Pull and Repair

Madison Water Utility staff recently pulled the pump and investigated the motor at our system's oldest well facility — Well 6 on the near westside. The pump typically delivers 2,300 gallons per minute through the use of a variable frequency drive. The well operates year-round and primarily serves the UW campus area and Near West neighborhoods.







The maintenance crew of Matt Edgren, Dennis McCaslin, Joe Kennedy, Laine Kruizenga, and Kyle Rosemeyer re-stalled the parts and pieces of Unit Well 6 to repair a broken shaft. Pipe sections were stacked one on top of another until they reached a depth of 220 feet to reach the well level.

This routine maintenance typically occurs at each well once every ten years. It allows the utility to clean sediment and other build-up out of the well pump, which ultimately helps the well itself and our system operate more efficiently. Pulling pumps at each well might usually be a routine task for the utility, but this complex and vigorous maintenance is not possible without the unmatched skill of our MWU staff.

The maintenance performed on Well 6's pump serves extremely beneficial to the well itself, as well as to the entire system. As you can imagine, this sort of maintenance helps prevent future challenges for the utility and our customers by allowing Madison Water Utility to stay consistent with our mission of supplying high quality water for consumption and fire protection at a reasonable cost, while conserving and protecting our ground water resource for present and future generation.

Check out the video of the Well 6 pump being pulled here: F:\Wucommon\Facilities\Unit Well 6\Post Well Pump Pull 08-19-2024

Page 1 of 1



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File Number: 84022

File ID: 84022 File Type: Miscellaneous Status: In Committee

Version: 1 Reference: Controlling Body: WATER UTILITY

BOARD

File Created Date: 06/20/2024

File Name: Board Meeting Evaluation and Discussion Final Action:

Title: Meeting Evaluation and Discussion

Notes:

Sponsors: Effective Date:

Attachments: Board_Evaluation - Copy.pdf Enactment Number:

Author: Hearing Date:

Entered by: jberndt@madisonwater.org Published Date:

History of Legislative File

 Ver Acting Body:
 Date:
 Action:
 Sent To:
 Due Date:
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 Result:

 sion:
 Date:

Text of Legislative File 84022

.Title

Meeting Evaluation and Discussion

Water Utility Board Self-Evaluation Form

(Relates to Board Policy BP-2A and GUIDE 5)

All members actively participate in discussions, and all members have opportunities to voice opinions/positions on agenda topics.						
	Not Met 1	2	3	4	5 Fully Met	
Memb meetir	• •				scussion by reviewing materials provided prior to the 5 Fully Met	
Memb		ive liste	ening	and a	avoid interrupting other speakers.	
Members offer honest opinions and respect the viewpoints expressed by other members.						
	Not Met 1	2	3	4	5 Fully Met	
Members honor WUB procedures and policies as outlined in the WUB Policy book.						
	Not Met 1	2	3	4	5 Fully Met	
Members represent the collective interest of current and future Madison residents.						

Members make decisions based on equity principles considering the decision's impact on all residents. The decision-making process considers: Who benefits? Who is burdened? Who does not have a voice at the table? How can policymakers mitigate unintended consequences?

5 Fully Met

Not Met 1 2 3 4 5 Fully Met

Developed by Pat Delmore, January 2019. Updated July 2020.

Not Met 1