

Village of Mukwonago
Notice of Meeting and Agenda

COMMITTEE OF THE WHOLE MEETING
Wednesday, November 2, 2022

Time: **5:30 pm**

Place: **Mukwonago Municipal Building/Board Room, 440 River Crest Court**

1. Call to Order

2. Roll Call

3. Comments from the Public

Information and comment may be received from the public by the Committee of the Whole, but solely as to matters that appear on the Agenda for that meeting. The public comment session shall last no longer than 15 minutes and individual presentations are limited to (3) minutes per speaker. These time limits may be extended at the discretion of the Chief Presiding Officer. The Committee of the Whole may have limited discussion on the information received, however, no action will be taken on issues raised during the public comment session unless they are otherwise on the agenda for that meeting. Public comments should be addressed to the Committee of the Whole as a body. Presentations shall not deal in personalities or personal attacks on members of the Board, the applicant for any project or Village employees. Comments, questions and concerns shall be presented in a respectful and professional manner. Any questions to an individual member of the Committee of the Whole or Staff will be deemed out of order by the Presiding Officer.

4. Presentations

4.1 Introduction of Robert Wagner, Public Works Crew Supervisor.

5. Approval of Minutes

5.1 Minutes of Committee of the Whole meeting of October 5, 2022
[2022-10-05 Draft COW Minutes](#)

6. Finance Committee, Trustee Darlene Johnson

Discussion and action possible on the following items.

6.1 Monthly Treasury Report and Revenue/Expenditure Guideline Report For
September *(For information purposes only, no action required)*
[2022-09 September Revenue & Expenditure Report.pdf](#)
[2022-09 September Treasury Report.pdf](#)

6.2 Discussion and possible recommendation to approve Accounts Payable Vouchers in
the amount of \$394,952.13.
[110222 VB COW Packet.pdf](#)

6.3 Announcement of Public Hearing Date on the 2023 Annual Budget set for November
16, 2022.
[Public Hearing Notice](#)

6.4 Update on the 2023 Annual Budget and Capital Improvement Plan

7. Health and Recreation Committee, Trustee John Meiners

Discussion and action possible on the following items

7.1 Indian Head Park Pedestrian Railroad Crossing Update.

[Indian Head Park RR Crossing CR.pdf](#)

[OCR Order.pdf](#)

8. Judicial Committee, Trustee Scott Reeves

Discussion and action possible on the following items

8.1 Discussion and possible recommendation on an ordinance amendment to **Section 2-26** Village Board and **Section 2-34** Committee of the Whole to reflect the correct day of the week for monthly meetings to be held.

[Cover Report - Chapter 2 Ordinance Amend.pdf](#)

[ORDINANCE DRAFT - Hours of Board 2022.docx](#)

[ORDINANCE DRAFT - Hours of COW 2022.docx](#)

9. Library Board of Trustees, Trustee Brill

9.1 Library Director Report for the month of October 2022

[Library Director Report October 2022.pdf](#)

10. Public Works Committee, Trustee Brill

Discussion and action possible on the following items

10.1 Discussion and possible recommendation on Pre-bid design **Task Order 2022-11** for Well 3 and 4 HMO Treatment Predesign Study with Ruekert-Mielke, Inc.

[Cover Report Radium Treatment Plant Pre-design Task Order](#)

[Task Order 2022-11 Well Nos. 3 and 4 HMO Treatment Predesign Study_1.pdf](#)

[Wells No. 3 and 4 Radionuclide Removal Analysis Memo.pdf](#)

[Water and Wastewater System Capacity Analysis-202105.pdf](#)

10.2 Discussion and possible recommendation on the Atkinson Lift Station Pump Improvements Bid to August Winter & Sons Inc in the amount of \$1,184,000.

[Atkinson LS Cover Report](#)

[Recommendation of Award - Atkinson lift station.pdf](#)

10.3 Discussion and possible recommendation on a resolution to approve a Letter of Credit reduction for Minors Estates Phase 2.

[Minors 4-Phase 2 - Letter of Credit Reduction #1](#)

10.4 Discussion and possible direction to the Public Works Director whether to issue a Right of Way permit to IDC subject to DNR approval and property owner agreeing to indemnify and hold the Village harmless.

[IDC Combined Cover Report.pdf](#)

11. Downtown Development Committee, Trustee Scott Reeves

Discussion and action possible on the following items

11.1 Update from Downtown Development Committee meeting of October 27, 2022

12. Adjournment

It is possible that a quorum of, members of other 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. Please note, upon reasonable notice, efforts will be made to accommodate the needs of individuals with disabilities through appropriate aids and services. For additional information or to request this service, contact the Municipal Clerk's Office, (262) 363-6420.

MINUTES OF THE COMMITTEE OF THE WHOLE MEETING

Wednesday, October 5, 2022

Time: **5:30 pm**

Place: **Mukwonago Municipal Building/Board Room, 440 River Crest Court**

Call to Order

Board Members Present

Eric Brill
James Decker
Darlene Johnson
John Meiners (arrived at 5:36pm)
Scott Reeves
Fred Winchowky

Excused

Ken Johnson

Also Present

Fred Schnook, Village Administrator
Diana Dykstra, Village Clerk-Treasurer
Diana Doherty, Finance Director
Rob Krieser, Police Lt.
Nathan Bayer, Village Attorney
Ron Bittner, Public Works Director
Wayne Castle, Utilities Director
Tim Rutenbeck, Building Inspector
Mike Michalski, Village Engineer
Jeff Stien, Fire Chief

Comments from the Public

None.

Approval of Minutes

Approval of September 7, 2022 Committee of the Whole Minutes

Decker/D Johnson motion to approve. Unanimously carried.

Finance Committee, Trustee Darlene Johnson

Monthly Treasury Report and Revenue/Expenditure Guideline Report For August

(For information purposes only, no action required)

Discussion and possible recommendation to approve Accounts Payable Vouchers in the amount of \$718,090.77.

D Johnson/Decker motion to recommend approval of Accounts Payable Vouchers in the amount of \$718,090.77.

Discussion and possible recommendation on the 2023 Fee Schedule

D Johnson/Meiners motion recommend approval of the 2023 Fee Schedule.

President Winchowky asked about the plan amendment review fees and asked for explanation including the chargeback definition, and questioned the vacation fee. Administrator Schnook will get those definitions for the next meeting. However, he believes the vacation is the abandonment of utilities.

Trustee D Johnson request the new arcade fee be included.

Roll Call : "Yes" Trustee Brill, Decker, Johnson, Meiners, Reeves. "No" President Winchowky.
Motion carried 5-1.

Trustee John Meiners arrived at 5:41pm.

Health and Recreation Committee, Trustee John Meiners

Discussion and possible recommendation of a Temporary Class "B"/"Class B" Retailer's License for St James Catholic Parish Fish Fry; 830 E Veterans Way; on the following dates: 11/4/22, 12/2/22, 1/6/23, 2/3/23, 3/3/23, 3/31/23, and 5/5/23.

Meiners/Brill motion to recommend approval. Unanimously carried.

Judicial Committee, Trustee Scott Reeves

Discussion and possible recommendation on an Ordinance amendment to establish non-coin operated Vintage Arcade license.

Trustee Reeves motion to recommend approval

Attorney Bayer noted this is an ordinance his office put together to reflect the new vintage arcade license. This is a new classification of a license. Trustee Brill suggested removing the word Vintage to allow it to apply to all non-coin operated pay to enter locations.

He further explained there might be a reason for the Board to consider a change to the normal arcade license that is currently issued to see if it is in line with the new change. It was noted staff will look at this item and return to the next COW if they feel a change is in order to the ordinance.

Meiners/D Johnson motion to recommend approval of Ordinance 1010 regarding amusement devices. Unanimously carried.

Library Board of Trustees, Trustee Brill

Library Director Report for the month of September 2022 *(for information only, no action required)*

Personnel Committee, Trustee Johnson

Discussion and update regarding Community and Economic Development Director Position

Administrator Schnook noted they had previously created the Community Economic Development Director Position. Four new businesses and four new developments come into the que. It was posted twice and received one qualified candidate that did not work out. He questioned if the Board wished to post a third time. Staff discussed this last week and Trustee Ken Johnson was present. He noted there are several options he sees, Option 1 Increase the salary by 7.5%, or Option 2 go back to hiring a planner. It appears the Board wishes to take Option 2, which means the Administrator needs to take on the role of the CEDD and take control. He read an email from Trustee Ken Johnson who serves as Chair of the Personnel Committee regarding his opinion and scheduling conflict for the meeting. Administrator Schnook noted he agrees with this action plan.

Administrator Schnook handed out a list of developments that are in the que.

Trustee Brill asked if we were close to knowing what the budget is at, and if there is any value in holding out until that time frame? Is there anything we can do to change the job description that might be stopping us from hiring.

Trustee Meiners confirmed the pay scale differences between the planner and the Community Economic Development Director. He noted he feels we will have the same

issues with the planner and would like to see the Administrator have an office assistant as a third option.

Trustee D.Johnson understands this community is known as a stepping stone and agree it might need to be a bit more for planner.

Administrator Schnook noted he will need to put economic development back into the Administrator job description.

President Winchowky suggested reposting for the planner and change the job description at the next personnel committee for the administrator position.

Public Works Committee, Trustee Brill

Discussion and possible recommendation to approve the Minor Park Pedestrian Culvert Crossing Bid Award to All-Ways Contractors Inc in the amount of \$178,243.

Brill/Decker motion to recommend approval of the Minor Park Pedestrian Culvert Crossing Bid Award to All-Ways Contractors Inc in the amount of \$178,243. Unanimously carried.

Discussion and possible recommendation to approve the street lighting for Minors Estates Phase II.

Brill/Meiners motion to recommend approval. Unanimously carried.

Protective Services, Trustee Decker

Discussion regarding the Section III of the Joint Amended Town and Village FIRE/EMS Department Agreement

Trustee Decker noted that at last protective services and found areas that are questionable in the contract and he is requesting to sit down with Administrator, President and Clerk to go through this and see if he is off base.

Closed Session

Decker/Meiners motion to go into closed session pursuant to Wis. Stats § 19.85(1)(e) (Deliberating or negotiating the purchasing of public properties, the investing of public funds, or conducting other specified public business, whenever competitive or bargaining reasons require a closed session) for negotiation with the Village of Vernon on the sale of water and sewer services for the Heine Development.

Roll Call: "Yes" Trustee Brill, Decker, D Johnson, Meiners, Reeves, Winchowky.
Unanimously carried.

Reconvene into Open Session

Decker/Brill Motion to reconvene into open session pursuant to Wis. Stats. §19.85(2) at 6:58pm. Roll Call: "Yes" Trustee Brill, Decker, D Johnson, Meiners, Reeves, Winchowky.
Unanimously carried.

Adjournment

Meeting adjourned at 6:58pm.

Respectfully Submitted,

Diana Dykstra, MMC
Village Clerk-Treasurer

PERIOD ENDING 09/30/2022

PRELIMINARY DECEMBER BUDGET TO ACTUAL
 SELECT FUNDS

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 09/30/2022	AVAILABLE BALANCE	% BDGT USED
Fund 100 - GENERAL FUND					
Revenues					
OTHERREV	OTHER REVENUES	89,694.00	26,444.26	63,249.74	29.48
PTAX	GENERAL PROPERTY TAX	3,006,389.00	3,006,328.40	60.60	100.00
UNCLASSIFIED	Unclassified	0.00	1,944.00	(1,944.00)	100.00
TAXES	OTHER TAXES	436,463.00	304,493.29	131,969.71	69.76
IGOVTVREV	INTERGOVERNMENTAL REVENUES	847,509.00	511,040.20	336,468.80	60.30
LICPER	LICENSES & PERMITS	446,937.00	376,980.29	69,956.71	84.35
LAWORD	FINES & FORFEITURES	173,000.00	126,711.88	46,288.12	73.24
PUBCHGS	PUBLIC CHARGES FOR SERVICES	30,488.00	20,564.70	9,923.30	67.45
LEISURE	LEISURE ACTIVITIES	72,000.00	39,474.54	32,525.46	54.83
IGOVTVCH	INTERGOVERNMENTAL CHARGES	200,201.00	181,760.35	18,440.65	90.79
INVTSTINC	INVESTMENT INCOME	11,300.00	41,892.94	(30,592.94)	370.73
TOTAL REVENUES		5,313,981.00	4,637,634.85	676,346.15	87.27
Expenditures					
5111	VILLAGE BOARD	67,713.00	40,534.31	27,178.69	59.86
5112	HISTORIC PRESERVATION	290.00	3.29	286.71	1.13
5120	MUNICIPAL COURT	37,954.00	30,214.89	7,739.11	79.61
5130	VILLAGE ATTORNEY	118,750.00	65,314.78	53,435.22	55.00
5141	VILLAGE ADMINISTRATOR	180,709.00	115,924.56	64,784.44	64.15
5142	CLERK-TREASURER	249,528.00	172,263.75	77,264.25	69.04
5144	ELECTIONS	26,900.00	13,517.26	13,382.74	50.25
5145	FINANCE DEPARTMENT	69,428.00	36,875.97	32,552.03	53.11
5150	IT SERVICES	15,000.00	6,200.34	8,799.66	41.34
5151	INDEPENDENT AUDITING	14,000.00	8,532.29	5,467.71	60.94
5153	ASSESSMENT OF PROPERTY	20,550.00	13,608.07	6,941.93	66.22
5154	RISK & PROPERTY INSURANCE	128,103.00	100,007.94	28,095.06	78.07
5160	VILLAGE HALL	48,836.00	40,899.77	7,936.23	83.75
5211	POLICE ADMINISTRATION	1,208,497.00	831,849.16	376,647.84	68.83
5212	POLICE PATROL	1,066,620.00	773,312.32	293,307.68	72.50
5213	CRIME INVESTIGATION	256,544.00	184,582.05	71,961.95	71.95
5215	POLICE TRAINING	12,000.00	6,523.60	5,476.40	54.36
5220	FIRE STATION (VILLAGE)	11,075.00	6,802.12	4,272.88	61.42
5235	EMERGENCY GOVERNMENT	2,000.00	834.00	1,166.00	41.70
5241	BUILDING INSPECTOR	282,221.00	181,579.69	100,641.31	64.34
5247	BOARD OF APPEALS	1,050.00	255.68	794.32	24.35
5254	DAMS	8,435.00	9,365.93	(930.93)	111.04
5300	DPW GENERAL ADMINISTRATION	356,588.00	251,005.65	105,582.35	70.39
5323	GARAGE	65,256.00	48,616.44	16,639.56	74.50
5324	MACHINERY & EQUIPMENT	113,045.00	81,949.06	31,095.94	72.49
5335	ENGINEERING	75,000.00	27,777.64	47,222.36	37.04
5341	STREETS & ALLEYS	22,024.00	13,157.65	8,866.35	59.74
5342	STREET LIGHTING	180,500.00	109,704.00	70,796.00	60.78
5343	CURBS GUTTERS & SIDEWALKS	25,631.00	23,485.75	2,145.25	91.63
5344	STORM SEWER	16,470.00	3,444.67	13,025.33	20.91
5345	STREET CLEANING	16,672.00	9,268.36	7,403.64	55.59
5346	BRIDGES & CULVERTS	2,550.00	0.00	2,550.00	0.00
5347	SNOW & ICE CONTROL	122,249.00	71,877.97	50,371.03	58.80
5348	STREET SIGNS & MARKINGS	16,297.00	12,361.26	3,935.74	75.85
5362	GARBAGE COLLECTION	3,664.00	4,538.49	(874.49)	123.87
5431	ANIMAL POUND	2,550.00	2,420.00	130.00	94.90
5512	MUSEUM	12,600.00	6,733.50	5,866.50	53.44
5521	PARKS	187,471.00	155,867.33	31,603.67	83.14
5522	CELEBRATIONS	8,200.00	7,371.71	828.29	89.90
5611	FORESTRY	24,296.00	22,815.27	1,480.73	93.91
5613	WEED CONTROL	210.00	227.30	(17.30)	108.24
5632	PLANNING DEPARTMENT	123,701.00	50,841.65	72,859.35	41.10
5660	STORMWATER MASTER PLAN	11,500.00	7,530.03	3,969.97	65.48
5670	ECONOMIC DEVELOPMENT	57,799.00	46,097.43	11,701.57	79.75
5900	OTHER FINANCING USES	43,505.00	0.00	43,505.00	0.00
TOTAL EXPENDITURES		5,313,981.00	3,596,092.93	1,717,888.07	67.67
Fund 100 - GENERAL FUND:					
TOTAL REVENUES		5,313,981.00	4,637,634.85	676,346.15	87.27
TOTAL EXPENDITURES		5,313,981.00	3,596,092.93	1,717,888.07	67.67
NET OF REVENUES & EXPENDITURES		0.00	1,041,541.92	(1,041,541.92)	100.00

PERIOD ENDING 09/30/2022

PRELIMINARY DECEMBER BUDGET TO ACTUAL
 SELECT FUNDS

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 09/30/2022	AVAILABLE BALANCE	% BDGT USED
Fund 150 - FIRE/AMBULANCE FUND					
Revenues					
OTHERREV	OTHER REVENUES	40,403.00	19,808.10	20,594.90	49.03
PTAX	GENERAL PROPERTY TAX	194,835.00	146,126.25	48,708.75	75.00
EBIX	EBIX REVENUES	1,041,995.00	642,958.01	399,036.99	61.70
IGOVTRV	INTERGOVERNMENTAL REVENUES	84,000.00	108,918.17	(24,918.17)	129.66
PUBCHGS	PUBLIC CHARGES FOR SERVICES	100.00	805.00	(705.00)	805.00
IGOVTC	INTERGOVERNMENTAL CHARGES	194,835.00	146,126.25	48,708.75	75.00
INVTINC	INVESTMENT INCOME	270.00	984.21	(714.21)	364.52
TOTAL REVENUES		1,556,438.00	1,065,725.99	490,712.01	68.47
Expenditures					
5140	ADMINISTRATIVE & GENERAL	27,869.00	20,901.69	6,967.31	75.00
5221	FIRE ADMINISTRATION	1,002,618.00	717,938.01	284,679.99	71.61
5222	FIRE SUPPRESSION	57,880.00	35,667.66	22,212.34	61.62
5223	FIRE TRAINING	27,429.00	15,436.96	11,992.04	56.28
5231	AMBULANCE	357,904.00	263,818.71	94,085.29	73.71
5232	AMBULANCE TRAINING	14,738.00	11,236.66	3,501.34	76.24
5700	CAPITAL OUTLAY EXPENDITURES	38,000.00	8,436.05	29,563.95	22.20
5880	USE OF GRANTS/DONATIONS	0.00	2,184.16	(2,184.16)	100.00
5900	OTHER FINANCING USES	30,000.00	0.00	30,000.00	0.00
TOTAL EXPENDITURES		1,556,438.00	1,075,619.90	480,818.10	69.11
Fund 150 - FIRE/AMBULANCE FUND:					
TOTAL REVENUES		1,556,438.00	1,065,725.99	490,712.01	68.47
TOTAL EXPENDITURES		1,556,438.00	1,075,619.90	480,818.10	69.11
NET OF REVENUES & EXPENDITURES		0.00	(9,893.91)	9,893.91	100.00

PERIOD ENDING 09/30/2022

PRELIMINARY DECEMBER BUDGET TO ACTUAL
 SELECT FUNDS

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 09/30/2022	AVAILABLE BALANCE	% BDGT USED
Fund 610 - WATER UTILITY FUND					
Revenues					
OTHERREV	OTHER REVENUES	100.00	137.49	(37.49)	137.49
UTILREV	UTILITY REVENUES	2,139,000.00	1,637,915.36	501,084.64	76.57
CONTRIB	CONTRIBUTED CAPITAL	150,000.00	82,939.46	67,060.54	55.29
MISCINC	MISC INCOME UTILITIES	142,200.00	111,283.75	30,916.25	78.26
IGOVTC	INTERGOVERNMENTAL CHARGES	1,500.00	691.00	809.00	46.07
INVSTINC	INVESTMENT INCOME	2,549.00	11,914.62	(9,365.62)	467.42
TOTAL REVENUES		2,435,349.00	1,844,881.68	590,467.32	75.75
Expenditures					
5900	OTHER FINANCING USES	337,101.00	10,000.00	327,101.00	2.97
6200	PUMPING OPERATIONS	133,036.00	106,408.16	26,627.84	79.98
6210	PUMPING MAINTENANCE	113,828.00	31,643.58	82,184.42	27.80
6300	WATER TREATMENT OPERATIONS	68,562.00	52,448.86	16,113.14	76.50
6310	WATER TREATMENT MAINTENANCE	33,180.00	19,739.30	13,440.70	59.49
6450	T&D-DISTR RSRVR/STNDP MAINT	3,933.00	4,399.29	(466.29)	111.86
6451	T&D-MAINS MAINTENANCE	47,611.00	15,853.24	31,757.76	33.30
6452	T&D-SERVICES MAINTENANCE	42,809.00	16,252.08	26,556.92	37.96
6453	T&D-METERS MAINTENANCE	29,647.00	4,904.54	24,742.46	16.54
6454	T&D-HYDRANTS MAINTENANCE	48,513.00	16,500.36	32,012.64	34.01
6901	METER READING LABOR	9,711.00	2,777.21	6,933.79	28.60
6902	ACCOUNTING & COLLECTING LABOR	82,865.00	60,134.43	22,730.57	72.57
6920	ADMINISTRATIVE & GENERAL EXP	979,850.00	628,926.01	350,923.99	64.19
TOTAL EXPENDITURES		1,930,646.00	969,987.06	960,658.94	50.24
Fund 610 - WATER UTILITY FUND:					
TOTAL REVENUES		2,435,349.00	1,844,881.68	590,467.32	75.75
TOTAL EXPENDITURES		1,930,646.00	969,987.06	960,658.94	50.24
NET OF REVENUES & EXPENDITURES		504,703.00	874,894.62	(370,191.62)	173.35

PERIOD ENDING 09/30/2022

PRELIMINARY DECEMBER BUDGET TO ACTUAL

SELECT FUNDS

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 09/30/2022	AVAILABLE BALANCE	% BDGT USED
Fund 620 - SEWER UTILITY FUND					
Revenues					
OTHERREV	OTHER REVENUES	1,000.00	252.58	747.42	25.26
UNCLASSIFIED	Unclassified	10,000.00	10,000.00	0.00	100.00
UTILREV	UTILITY REVENUES	1,707,000.00	1,313,043.45	393,956.55	76.92
LICPER	LICENSES & PERMITS	186,800.00	61,518.26	125,281.74	32.93
CONTRIB	CONTRIBUTED CAPITAL	96,000.00	30,654.68	65,345.32	31.93
MISCINC	MISC INCOME UTILITIES	150,000.00	135,151.61	14,848.39	90.10
INVSTINC	INVESTMENT INCOME	4,699.00	25,793.38	(21,094.38)	548.91
TOTAL REVENUES		2,155,499.00	1,576,413.96	579,085.04	73.13
Expenditures					
5900	OTHER FINANCING USES	82,893.00	0.00	82,893.00	0.00
8010	WWTP-TREATMENT/DISPOSAL/GP	519,468.00	479,612.93	39,855.07	92.33
8020	LIFT STATIONS/PUMPING EQUIP	28,227.00	16,497.06	11,729.94	58.44
8030	WASTEWATER COLLECTION SYSTEM	50,085.00	41,259.96	8,825.04	82.38
8300	ACCOUNTING/COLLECTING	80,865.00	59,061.26	21,803.74	73.04
8400	ADMINISTRATIVE & GENERAL	637,277.00	391,972.83	245,304.17	61.51
TOTAL EXPENDITURES		1,398,815.00	988,404.04	410,410.96	70.66
Fund 620 - SEWER UTILITY FUND:					
TOTAL REVENUES		2,155,499.00	1,576,413.96	579,085.04	73.13
TOTAL EXPENDITURES		1,398,815.00	988,404.04	410,410.96	70.66
NET OF REVENUES & EXPENDITURES		756,684.00	588,009.92	168,674.08	77.71

10/25/2022 02:08 PM
User: ddoherty
DB: Mukwonago

REVENUE AND EXPENDITURE REPORT FOR VILLAGE OF MUKWONAGO

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PERIOD ENDING 09/30/2022

PRELIMINARY DECEMBER BUDGET TO ACTUAL

SELECT FUNDS

GL NUMBER	DESCRIPTION	2022 AMENDED BUDGET	YTD BALANCE 09/30/2022	AVAILABLE BALANCE	% BDGT USED
TOTAL REVENUES - ALL FUNDS		11,461,267.00	9,124,656.48	2,336,610.52	79.61
TOTAL EXPENDITURES - ALL FUNDS		10,199,880.00	6,630,103.93	3,569,776.07	65.00
NET OF REVENUES & EXPENDITURES		1,261,387.00	2,494,552.55	(1,233,165.55)	197.76

TREASURERS REPORT	Sep-2022	TOTAL	Citizens	LGIP	Long Term Investments - Johnson Bank & ADM
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GENERAL VILLAGE

100-111xxx	General Fund	3,512,377.29	422,914.52	2,020,794.45	1,068,668.32
100-111005/020/033	Checking/MRA/Accrued Sick	983,994.17	574,959.93	297,973.91	111,060.33
150-111300	Fire Department	348,883.89	245,377.79	103,506.10	
200-110xxx	Community Development (Deback)	1,270,732.00	196,168.29	1,074,563.71	
210-111xxx	Wisc Development - RLF	139,236.33	3,031.25	136,205.08	-
220-111xxx	TID#3-General	815,350.47	34,767.69	766,988.20	13,594.58
240-111xxx	TID#4-General	217,848.09	139,241.30	78,606.79	
250-111xxx	TID#5-General	2,524,784.80	391,719.54	2,133,065.26	
300-111xxx	Debt Service	1,386,068.74	524.44	1,385,544.30	
320-111300	Fire Department Designated	166,632.18	84.57	166,547.61	
340-111xxx	Village Designated Funds	528,568.40	4,620.91	523,947.49	
350-111xxx	American Rescue Plan Act	848,684.71		848,684.71	
410-111300	Recycling	207,400.26	107,677.68	99,722.58	
430-111300	Capital Equipment	224,440.00	21,005.25	203,434.75	
440-111xxx	Library	264,639.40	42,757.23	221,882.17	
480-111xxx	Capital Improvement Funds	3,258,501.26	86,009.53	2,717,411.59	455,080.14
500-111300	Stormwater District #1	34,631.94	18,472.91	16,159.03	
600-111xxx	Impact Fees	336,596.21	119,708.61	216,887.60	
720-111xxx	Taxroll	48,708.75	48,707.52	1.23	
810-111xxx	Parkland Site	236,035.04	19,928.54	216,106.50	
TOTAL		17,354,113.93	2,477,677.50	13,228,033.06	1,648,403.37

WATER UTILITY

610-111300	Cash	431,465.25	431,465.25		
610-111200	Bonds & Unrestricted Cash	476,060.72		476,060.72	
610-111400	Long Term Debt	26,329.61			26,329.61
610-111050	Current Year Debt Reserve	307,142.83	307,142.83	-	
610-111060	Required Debt Reserve	529,869.31	-	119,546.15	410,323.16
610-111080	Impact Fee	84,000.25	83,488.77	511.48	
610-111033	Accrued Sick Pay	8,833.14		8,833.14	-
TOTAL		1,863,701.11	822,096.85	604,951.49	436,652.77

SEWER UTILITY

620-111300	Cash	64,493.02	64,493.02		
620-111200	Bonds & Unrestricted Cash	496,641.72		496,641.72	
610-111400	Long Term Debt	125,666.68			125,666.68
620-111030	Sewer Connection Fee	187,242.93	66,338.60	120,904.33	-
620-111060	Required Debt Reserve	733,404.25	-	16,810.03	716,594.22
620-111050	Current Year Debt Reserve	499,909.88	499,909.88	-	
620-111070	Equipment Replacement Fund	732,029.77	-	537,109.91	194,919.86
620-111080	Impact Fee	757,027.47	31,298.97	725,728.50	
620-111033	Accrued Sick Pay	8,833.13		8,833.13	-
TOTAL		3,605,248.85	662,040.47	1,906,027.62	1,037,180.76

GRAND TOTAL	22,823,063.89	3,961,814.82	15,739,012.17	3,122,236.90
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Prepared by Diana Doherty

balance check

22,823,063.89

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Accounts Payable Cover Sheet

Report:	Period or corresponding report date		
Village Accounts Payable	10/26/2022	\$	138,201.03
Library Accounts Payable	10/14/2022	\$	17,949.46
Charter Communications/Spectrum (ach withdrawal)	10/25/2022	\$	1,801.56
US Bank (ach withdrawal)	10/24/2022	\$	13,349.82
We Energies (ach withdrawal)	10/20/2022	\$	42,788.39
Check Disbursement - Court	10/10/2022	\$	4,523.01
Check Disbursement - Warrant	10/3/2022	\$	212.00
Check Disbursement - Warrant	10/4/2022	\$	681.75
Check Disbursement - Lynch Check Reissue	10/4/2022	\$	1,398.37
Check Disbursement - Warrant	10/5/2022	\$	310.00
Check Disbursement - Invoice Cloud	10/10/2022	\$	334.05
Check Disbursement - Warrant	10/10/2022	\$	98.80
Check Disbursement - North Central Labs Check Reissue	10/11/2022	\$	140.13
Check Disbursement - Warrant	10/11/2022	\$	248.00
Check Disbursement - Warrant	10/18/2022	\$	360.00
Check Disbursement - Entrance Systems Check Reissue	10/20/2022	\$	310.00
Check Disbursement - WI Dept of Revenue Qtrly Tax	10/25/2022	\$	827.67
Check Disbursement - Payroll Related	10/12/2022	\$	9,014.59
Check Disbursement - Payroll Related	10/26/2022	\$	162,403.50
	Total for Approval:	\$	<u>394,952.13</u>

The preceding list of bills payable was approved for payment

Date: _____

Approved by: _____

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: AIRGAS USA LLC						
9130534620	AIRGAS EMS SUPPLIES	150-5231-531100	343.10	343.10	FIRE	11/03/2022
TOTAL VENDOR AIRGAS USA LLC				343.10		
VENDOR NAME: ALSCO						
IM1L1850646	PD OCTOBER 20 MAT CLEANING SERVICE	100-5211-539400	39.63	39.63	POLICE	11/03/2022
TOTAL VENDOR ALSCO				39.63		
VENDOR NAME: AM TOWING						
W33010	3462 BRAKE REPAIR	150-5222-539500	1,171.80	1,171.80	FIRE	11/03/2022
TOTAL VENDOR AM TOWING				1,171.80		
VENDOR NAME: AMAZON CAPITOL SERVICES						
14WAHY6K7WPX	OFFICE SUPPLIES	100-5142-531100	32.72	32.72	CLERK	11/03/2022
1NTVK9Q39CTW	MUSEUM BATTERY BACKUP	100-5512-582100	69.99	69.99	DPW	11/03/2022
1V7VNMDKNW7L	WATER BOOSTER STATION GENERATOR ROOM REP	610-6200-662300	202.57	202.57	UTILITIES	11/03/2022
1TJCV6HXRWPP	GENERAL OFFICE SUPPLIES	100-5142-531100	25.49	151.11	ALLOCATE	11/03/2022
		100-5145-531100	25.50			
		100-5632-531100	25.49			
		100-5241-531100	25.49			
		100-5141-531100	49.14			
TOTAL VENDOR AMAZON CAPITOL SERVICES				456.39		
VENDOR NAME: BASSETT MECHANICAL						
6511067	WWTF HVAC REPAIR SCREENING ROOM	620-8010-834000	375.00	375.00	UTILITIES	11/03/2022
TOTAL VENDOR BASSETT MECHANICAL				375.00		
VENDOR NAME: BAYSIDE PRINTING LLC						
141328	3RD QTR 2022 UTILITY BILLING	100-5142-531200	8.22	730.16	ALLOCATE	11/03/2022
		100-5142-531200	8.20			
		100-5211-531200	8.20			
		150-5221-539900	8.20			
		440-5511-531200	8.20			
		410-5363-531200	8.20			
		610-6920-692300	24.61			
		620-8400-852000	24.61			
		150-5221-521900	24.61			
		150-5231-521900	24.61			
		410-5363-531200	58.25			
		610-6920-692300	262.12			
		620-8400-852000	262.13			
TOTAL VENDOR BAYSIDE PRINTING LLC				730.16		
VENDOR NAME: BLOOM COMPANIES LLC						
12893	HWY 83	250-5335-521900	18,295.73	18,295.73	FINANCE	11/03/2022
TOTAL VENDOR BLOOM COMPANIES LLC				18,295.73		
VENDOR NAME: BOUND TREE MEDICAL LLC						

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: BOUND TREE MEDICAL LLC					
84722305	EMS SUPPLIES	150-5231-531100 26.79	26.79	FIRE	11/03/2022
TOTAL VENDOR BOUND TREE MEDICAL LLC			26.79		
VENDOR NAME: BS&A					
144323	PERMIT APPLICATION FEE	100-5241-521900 544.00	544.00	BUILDING	11/03/2022
TOTAL VENDOR BS&A			544.00		
VENDOR NAME: C & M AUTO PARTS INC					
6079-358675	DPW SCANTOOL SUBSCRIPTION	100-5323-531100 797.99	797.99	DPW	11/03/2022
6079-358984	TRUCK #4 BATTERY	100-5324-539500 189.43	189.43	DPW	11/03/2022
6079-358999	JOHN DEERE 3484 REPAIR	150-5222-539500 35.55	35.55	FIRE	11/03/2022
6079-358620	TRUCK #4 HEADLIGHTS	100-5324-539500 35.38	35.38	DPW	11/03/2022
6079-358674	GASKET MAKER	100-5323-531100 22.69	22.69	DPW	11/03/2022
6079-358334	CAR 1 LOANER REPAIR	150-5222-539500 226.39	226.39	FIRE	11/03/2022
TOTAL VENDOR C & M AUTO PARTS INC			1,307.43		
VENDOR NAME: CENTURY SPRINGS BOTTLING					
5271068	WWTF LAB WATER	620-8010-826000 63.76	63.76	UTILITIES	11/03/2022
TOTAL VENDOR CENTURY SPRINGS BOTTLING			63.76		
VENDOR NAME: CINTAS					
4134408284	STAFF UNIFORMS & SHOP SUPPLIES	100-5323-531100 111.48	111.48	DPW	11/03/2022
4134408144	WATER/WWTF UNIFORM SERVICE	610-6920-693000 90.00	179.82	UTILITIES	11/03/2022
		620-8010-827000 89.82			
4135097740	WATER/WWTF UNIFORM SERVICE	610-6920-693000 89.82	179.82	UTILITIES	11/03/2022
		620-8010-827000 90.00			
4135097699	STAFF UNIFORMS & SHOP SUPPLIES	100-5323-531100 111.48	111.48	DPW	11/03/2022
TOTAL VENDOR CINTAS			582.60		
VENDOR NAME: CORE & MAIN LP					
R621261	WATER SERVICE REPAIR PARTS	610-6452-665200 336.98	336.98	UTILITIES	11/03/2022
R700636	WATER SERVICE REPAIR PARTS	610-6452-665200 410.00	410.00	UTILITIES	11/03/2022
R535953	WATER SERVICE PARTS AND HYDRANT CREDIT	610-6452-665200 (588.00)	(654.00)	UTILITIES	11/03/2022
		610-6454-665400 (66.00)			
TOTAL VENDOR CORE & MAIN LP			92.98		
VENDOR NAME: CRIVELLO CARLSON S.C.					
5331-178852	LEGAL SERVICES THRU 9/30	100-5130-521900 1,807.50	3,847.50	FINANCE	11/03/2022
		150-5221-521900 160.00			
		250-5130-521900 340.00			
		100-5670-521900 720.00			
		610-6920-692300 820.00			
5331-178853	SPECTRUM ISSUE	100-5130-521900 558.35	558.35	FINANCE	11/03/2022
5331-178854	MISC CLERK ITEMS	100-5130-521900 1,380.00	1,380.00	FINANCE	11/03/2022

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: CRIVELLO CARLSON S.C.					
TOTAL VENDOR CRIVELLO CARLSON S.C.			5,785.85		
VENDOR NAME: DAVINDER TOOR					
102422	BOND TERMINATION	100-0000-211425 3,713.16	3,713.16	FINANCE	11/03/2022
TOTAL VENDOR DAVINDER TOOR			3,713.16		
VENDOR NAME: DE LAGE LANDEN FINANCIAL					
77765967-POLICE	COPIER LEASE OCTOBER INVOICE	100-5211-521900 108.00	108.00	POLICE	11/03/2022
77765967	LEASE 10/15/2022 - 11/14/22 KONICA 450I	100-5142-531200 15.04	160.00	ALLOCATE	10/03/2022
		100-5300-539900 15.54			
		100-5120-531100 10.77			
		100-5141-531100 1.65			
		100-5145-531100 17.48			
		100-5241-531200 3.25			
		100-5632-531200 4.83			
		100-5211-521900 25.74			
		150-5221-531100 11.70			
		410-5363-531200 1.60			
		440-5511-531200 21.95			
		500-5344-531200 1.60			
		610-6902-690300 14.59			
		620-8300-840000 14.26			
TOTAL VENDOR DE LAGE LANDEN FINANCIAL			268.00		
VENDOR NAME: DUSTIN RIECHERT					
2022 BOOT ALLOWANCE	2022 BOOT ALLOWANCE - RIECHERT	100-5323-534800 100.00	100.00	DPW	11/03/2022
TOTAL VENDOR DUSTIN RIECHERT			100.00		
VENDOR NAME: EMERGENCY MEDICAL PRODUCTS					
2486734	EMS SUPPLIES	150-5231-531100 4.97	4.97	FIRE	11/03/2022
2486733	EMS SUPPLIES	150-5231-531100 39.76	39.76	FIRE	11/03/2022
TOTAL VENDOR EMERGENCY MEDICAL PRODUCTS			44.73		
VENDOR NAME: ENERGENECS, INC.					
0044731-IN	AERATION BASIN PROJECT - EQUIPMENT	620-0000-000105 5,618.00	5,618.00	UTILITIES	11/03/2022
TOTAL VENDOR ENERGENECS, INC.			5,618.00		
VENDOR NAME: EVOQUA WATER TECHNOLOGIES					
905575468	WWTF PRIMARY WEAR SLIDES HOLD DOWN WASHE	620-8010-833000 43.88	43.88	UTILITIES	11/03/2022
TOTAL VENDOR EVOQUA WATER TECHNOLOGIES			43.88		
VENDOR NAME: EXCEL BUILDING SERVICES LLC					
3911	OCTOBER PD CLEANING SERVICE	100-5211-539400 975.00	975.00	POLICE	11/03/2022
TOTAL VENDOR EXCEL BUILDING SERVICES LLC			975.00		
VENDOR NAME: FASTENAL COMPANY					
WIMUK94616	WATER/WWTF SAFETY SHIELDS FOR SERVICE TR	610-6310-663500 251.75	503.46	UTILITIES	11/03/2022
		620-8010-827000 251.71			

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: FASTENAL COMPANY						
TOTAL VENDOR FASTENAL COMPANY				503.46		
VENDOR NAME: GALLS LLC 022149777	2022 UNIFORM ALLOWANCE - ZAJICHEK	100-5212-534600	60.00	60.00	POLICE	11/03/2022
TOTAL VENDOR GALLS LLC				60.00		
VENDOR NAME: GENERAL FIRE EQUIPMENT CO 148151	3484 EMERGENCY LIGHTING	430-5700-571300	313.35	313.35	FIRE	11/03/2022
TOTAL VENDOR GENERAL FIRE EQUIPMENT CO				313.35		
VENDOR NAME: HIPPENMEYER, REILLY, BLUM, 53509	2022 GREENWALD/DEBACK LITIGATION	100-5130-521900	380.00	380.00	FINANCE	11/03/2022
35308	PROSECUTIONS	100-5130-521900	885.00	885.00	FINANCE	11/03/2022
TOTAL VENDOR HIPPENMEYER, REILLY, BLUM,				1,265.00		
VENDOR NAME: HOME DEPOT SEPT 2022	PARK AND CURB/GUTTER SUPPLIES	100-5521-531100	150.40	379.56	DPW	11/03/2022
		100-5343-539500	229.16			
TOTAL VENDOR HOME DEPOT				379.56		
VENDOR NAME: JEFFERSON FIRE & SAFETY IN145244	BUNKER BOOTS	150-5222-531100	202.46	202.46	FIRE	11/03/2022
TOTAL VENDOR JEFFERSON FIRE & SAFETY				202.46		
VENDOR NAME: JUDITH CLEGG MFD 14793	EBIX PATIENT REFUND MFD 14793	150-0000-130450	750.00	750.00	FINANCE	11/03/2022
TOTAL VENDOR JUDITH CLEGG				750.00		
VENDOR NAME: MACQUEEN EQUIPMENT P07322	MACQUEEN 2022 SCBA FLOW TEST	150-5222-539500	2,135.00	2,135.00	FIRE	11/03/2022
TOTAL VENDOR MACQUEEN EQUIPMENT				2,135.00		
VENDOR NAME: MARCO TECHNOLOGIES 32542180	WATER COPIER EXPENSE	610-6920-692100	182.87	182.87	UTILITIES	11/03/2022
TOTAL VENDOR MARCO TECHNOLOGIES				182.87		
VENDOR NAME: MARKUS AVILES 2022 CLOTHING ALLOW	2022 CLOTHING ALLOWANCE - AVILES	150-5222-534600	50.00	50.00	FIRE	11/03/2022
TOTAL VENDOR MARKUS AVILES				50.00		
VENDOR NAME: MESSAGEUS 222730134	WATER PHONE SERVICE	610-6920-692100	6.95	6.95	UTILITIES	11/03/2022
TOTAL VENDOR MESSAGEUS				6.95		
VENDOR NAME: MILLER KEN 2022 BOOT ALLOW	2022 BOOT ALLOWANCE - MILLER	620-8010-827000	81.01	81.01	UTILITIES	11/03/2022
TOTAL VENDOR MILLER KEN				81.01		

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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: MINUTEMAN PRESS OF BURLINGTON 50742	BUSINESS CARDS	100-5142-531100	49.80	49.80	CLERK	11/03/2022
TOTAL VENDOR MINUTEMAN PRESS OF BURLINGTON				49.80		
VENDOR NAME: MSA PROFESSIONAL SERVICES, INC. R08352005.0-7	CORP PAYMENT	480-5140-521900	650.00	650.00	DPW	11/03/2022
TOTAL VENDOR MSA PROFESSIONAL SERVICES, INC.				650.00		
VENDOR NAME: MUKWONAGO AREA CHAMBER OF COMM 101922	945 GREENWALD COURT INC./SEPT ROOM TAX	100-0000-244000	3,924.98	3,924.98	CLERK	11/03/2022
TOTAL VENDOR MUKWONAGO AREA CHAMBER OF COMM				3,924.98		
VENDOR NAME: NAPA AUTO PARTS - SP018 176265	IMPACT SOCKETS	100-5323-531100	44.95	44.95	DPW	11/03/2022
TOTAL VENDOR NAPA AUTO PARTS - SP018				44.95		
VENDOR NAME: NELSON SYSTEMS, INC P102162	RADIO AND PHONE LINE RECORDER	100-5211-522900	3,063.83	3,063.83	POLICE	11/03/2022
TOTAL VENDOR NELSON SYSTEMS, INC				3,063.83		
VENDOR NAME: NORTHERN LAKE SERVICE INC 427372	WATER PFAS TESTING	610-6300-663200	735.00	735.00	UTILITIES	11/03/2022
427080	WATER BAC-T TESTING	610-6300-663200	184.00	184.00	UTILITIES	11/03/2022
TOTAL VENDOR NORTHERN LAKE SERVICE INC				919.00		
VENDOR NAME: PROHEALTH MEDICAL GROUP 315311	PHC MIHLBAUER CHEST X-RAY INVOICE	150-5221-521900	97.00	97.00	FIRE	11/03/2022
TOTAL VENDOR PROHEALTH MEDICAL GROUP				97.00		
VENDOR NAME: PROVEN POWER INC 02-412691	3484 JDC SWITCH	150-5222-539500	93.03	93.03	FIRE	11/03/2022
TOTAL VENDOR PROVEN POWER INC				93.03		
VENDOR NAME: QUILL LLC 28342386	OFFICE SUPPLIES	100-5241-531100	2.38	139.77	ALLOCATE	11/03/2022
		100-5142-531100	11.05			
		100-5145-531100	12.82			
		100-5141-531100	1.21			
		100-5632-531100	3.54			
		100-5323-531100	11.40			
		100-5120-531100	7.90			
		100-5211-531100	18.89			
		150-5221-531100	8.58			
		410-5363-531100	1.17			
		440-5511-531100	16.10			
		500-5344-531100	1.17			
		610-6920-692100	10.71			
		620-8300-840000	10.46			
		100-5141-531100	22.39			
28196077	OFFICE SUPPLIES	100-5211-531100	366.85	366.85	POLICE	11/03/2022

INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: QUILL LLC					
TOTAL VENDOR QUILL LLC			506.62		
VENDOR NAME: REINDERS, INC.					
6019697-00	TORO 5910 REPAIRS	100-5324-539500	1,815.56	DPW	11/03/2022
6022105-00	TORO 5910 WIDOW	100-5324-539500	1,089.46	DPW	11/03/2022
TOTAL VENDOR REINDERS, INC.			2,905.02		
VENDOR NAME: ROSEMARY REESE					
MFD 14727	EBIX PATIENT REFUND MFD 14727	150-0000-130450	192.97	FINANCE	11/03/2022
TOTAL VENDOR ROSEMARY REESE			192.97		
VENDOR NAME: RUEKERT & MIELKE, INC.					
143521	12-00000.100 General Services	100-5254-521900	258.00		
		100-5335-521900	3,335.00		
		100-5521-531100	272.25		
		100-5660-521900	246.00		
		250-5335-521900	1,621.50		
		500-5344-521900	205.00		
143524	12-10087.300 Holz Parkway & Miniwaukan P	480-5700-584800	4,951.77	FINANCE	11/03/2022
143525	12-10096.300 Deback Drive Infrastructure	200-5335-521900	1,460.00	FINANCE	11/03/2022
143526	12-10098.122 WWTF Phosphorus Assistance	620-8400-852100	1,933.25	FINANCE	11/03/2022
143527	12-10115.300 2019 Well & Well Pump Impro	610-6920-692300	164.00	FINANCE	11/03/2022
143529	12-10131.221 Atkinson Pump Station Capac	620-0000-000104	2,379.45	FINANCE	11/03/2022
143533	12-10141.300 Indianhead Park Outdoor Per	480-5700-584900	792.50	FINANCE	11/03/2022
143538	12-10151.310 WWTF Aeration Upgrade / Con	620-0000-000105	1,118.75	FINANCE	11/03/2022
143539	12-10152.100 Local Limits & Industrial P	620-8400-852000	2,000.00	FINANCE	11/03/2022
143541	12-10163.100 Banker Wire Expansion / Rev	100-0000-211400	85.50	FINANCE	11/03/2022
143542	12-10166.300 Milwaukee Tool Temporary Lo	100-0000-211400	121.98	FINANCE	11/03/2022
143543	12-10169.100 Wells 3 and 4 Radium Remova	610-6920-692300	1,717.00	FINANCE	11/03/2022
143544	12-10169.101 Wells 3 and 4 Radium Remova	610-6920-692300	505.00	FINANCE	11/03/2022
143548	12-10176.170 Minor Park Pedestrian Culve	480-5700-584900	12,798.00	FINANCE	11/03/2022
143551	12-92041.700 2022 SCADA Service Work	610-6920-692300	720.00	FINANCE	11/03/2022
		620-8400-852000	5,892.38		
143522	12-10044.300 BOX SELF STORAGE / CONSTRUC	100-0000-211425	82.00	FINANCE	11/03/2022
143523	12-10069.104 CHAPMAN FARMS PORTION OF VI	100-0000-211425	249.50	FINANCE	11/03/2022
143528	12-10127.100 210 MCDIVITT LANE EXPANSION	100-0000-211425	535.48	FINANCE	11/03/2022
143530	12-10134.100 200 GRAND AVENUE CONDOS / R	100-0000-211425	155.82	FINANCE	11/03/2022
143531	12-10137.300 HILL COURT MULTI-TENANT DEV	100-0000-211425	656.00	FINANCE	11/03/2022
143532	12-10139.310 MEADOWLAND TOWNHOMES DEVELO	100-0000-211425	508.57	FINANCE	11/03/2022
143534	12-10147.300 MINOR ESTATES PHASE 4 / CON	100-0000-211425	3,799.12	FINANCE	11/03/2022
143535	12-10148.300 GOODWILL OF MUKWONAGO / CON	100-0000-211425	178.98	FINANCE	11/03/2022
143536	12-10149.300 EDGEWOOD CONDOS / EROSION C	100-0000-211425	121.98	FINANCE	11/03/2022
143537	12-10149.310 EDGEWOOD CONDOS / EROSION C	100-0000-211425	121.98	FINANCE	11/03/2022
143540	12-10162.300 FLUERY'S EXPANSION / EROSION	100-0000-211425	148.49	FINANCE	11/03/2022
143545	12-10170.300 600 PERKINS DRIVE IDC / ERO	100-0000-211425	1,166.48	FINANCE	11/03/2022
143547	12-10174.300 LYNCH BUILDING ADDITION	100-0000-211425	85.50	FINANCE	11/03/2022
143549	12-10178.100 HILL COURT RELOAD SOUTH MUL	100-0000-211425	1,517.00	FINANCE	11/03/2022
143550	12-10180.300 CAMPBELL CONSTRUCTION ADDIT	100-0000-211425	205.49	FINANCE	11/03/2022
143552	12-92097.306 FAIRWINDS PHASE 5 CONSTRUCT	100-0000-211425	2,023.04	FINANCE	11/03/2022
143553	12-92136.302 CHAPMAN FARM / CHAPMAN VILL	100-0000-211425	155.82	FINANCE	11/03/2022
143554	12-92136.303 CHAPMAN FARM / CHAPMAN RESI	100-0000-211425	2,562.82	FINANCE	11/03/2022

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
EXP CHECK RUN DATES 11/03/2022 - 11/03/2022
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS	AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: RUEKERT & MIELKE, INC.					
143555	12-92191.103 PRO HEALTH EXPANSION / 2018	100-0000-211425 85.50	85.50	FINANCE	11/03/2022
TOTAL VENDOR RUEKERT & MIELKE, INC.			56,936.90		
VENDOR NAME: SAN-A-CARE					
580826-1	PARKS GERMICIDAL DETERGENT	100-5521-531100 25.10	25.10	DPW	11/03/2022
TOTAL VENDOR SAN-A-CARE			25.10		
VENDOR NAME: SERWE IMPLEMENT MUNICIPAL SALES					
9541	JETTER CONTROL REPAIRS	100-5324-539500 751.17	751.17	DPW	11/03/2022
TOTAL VENDOR SERWE IMPLEMENT MUNICIPAL SALES			751.17		
VENDOR NAME: SHRED-IT USA					
8002370526	2022 SEPTEMBER VH SHREDDING SERVICES	100-5141-531100 45.33	90.67	ALLOCATE	11/03/2022
		100-5142-531100 22.67			
		100-5632-531100 22.67			
TOTAL VENDOR SHRED-IT USA			90.67		
VENDOR NAME: SIREN SERVICES					
1389	3471 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 667.83	667.83	FIRE	11/03/2022
1379	3462 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 672.78	672.78	FIRE	11/03/2022
1378	3463 ANNUAL PUMP TEST AND SERVICE	150-5222-539500 2,127.84	2,127.84	FIRE	11/03/2022
TOTAL VENDOR SIREN SERVICES			3,468.45		
VENDOR NAME: SJE					
CD99453372	WWTF 6" BACKUP PUMP REPAIR	620-8020-832000 1,891.87	1,891.87	UTILITIES	11/03/2022
TOTAL VENDOR SJE			1,891.87		
VENDOR NAME: SWENSON, TERRENCE					
REFUND102022	UB REFUND #4819 - 114 CERNAN CT	610-0000-142000 126.46	126.46	ALLOCATE	11/03/2022
TOTAL VENDOR SWENSON, TERRENCE			126.46		
VENDOR NAME: TECHNIMOUNT SYSTEM LLC					
INV-000783	TECHNIMOUNT SYSTEM ACT102 ARPA FUNDS	150-5700-580500 950.00	950.00	FIRE	11/03/2022
TOTAL VENDOR TECHNIMOUNT SYSTEM LLC			950.00		
VENDOR NAME: THE MASTERS TOUCH, LLC					
2022 TAX EST	WAUKESHA CO TAX BILL POSTAGE ADVANCE	100-5142-531500 1,581.30	1,581.30	CLERK	11/03/2022
TOTAL VENDOR THE MASTERS TOUCH, LLC			1,581.30		
VENDOR NAME: TIMOTHY HORN					
MFD 14782	EBIX PATIENT REFUND MFD 14782	150-0000-130450 790.00	790.00	FINANCE	11/03/2022
TOTAL VENDOR TIMOTHY HORN			790.00		
VENDOR NAME: TIPTON TRACY					
2022 UNIFORM ALLOW	2022 UNIFORM ALLOWANCE - TIPTON T	100-5211-534600 179.91	179.91	POLICE	11/03/2022
TOTAL VENDOR TIPTON TRACY			179.91		
VENDOR NAME: TRANSCENDENT TECHNOLOGIES					

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PENDING VILLAGE BOARD REVIEW FOR MUKWONAGO
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INVOICE NUMBER	DESCRIPTION	DISTRIBUTIONS\AMOUNTS		AMOUNT	APPROVAL DEPARTMENT	POST DATE
VENDOR NAME: TRANSCENDENT TECHNOLOGIES						
M6190	WALWORTH CO TAX PROGRAM ANNUAL MAINT	100-5142-522900	391.00	391.00	CLERK	11/03/2022
TOTAL VENDOR TRANSCENDENT TECHNOLOGIES				391.00		
VENDOR NAME: USA BLUEBOOK						
146452	WATER LAB TESTING SUPPLIES	610-6300-663200	247.33	247.33	UTILITIES	11/03/2022
146609	WWTF LAB SUPPLIES	620-8010-826000	380.06	380.06	UTILITIES	11/03/2022
TOTAL VENDOR USA BLUEBOOK				627.39		
VENDOR NAME: VELOCITY LLC						
2022065	OFFICE 365 LICENSING	100-5111-522900	28.00	762.00	ALLOCATE	11/03/2022
		100-5120-522900	16.50			
		100-5141-522900	12.50			
		100-5142-522900	37.50			
		100-5211-522900	157.50			
		100-5241-522900	37.50			
		100-5300-522900	57.50			
		100-5512-522900	12.50			
		100-5632-522900	12.50			
		150-5221-522900	277.50			
		610-6920-692100	37.50			
		620-8400-851000	37.50			
		100-5145-522900	37.50			
TOTAL VENDOR VELOCITY LLC				762.00		
VENDOR NAME: VERIZON WIRELESS						
9917320554	VERIZON BILL- MONITORS	150-5221-522500	50.10	50.10	FIRE	11/03/2022
9918095164	VERIZON FINAL BILL FROM SWITCH	150-5221-522500	178.42	178.42	FIRE	11/03/2022
TOTAL VENDOR VERIZON WIRELESS				228.52		
VENDOR NAME: VILLAGE OF MUKWONAGO						
10/19/22	2022 SCOOTERS PLAN REVIEW	100-0000-211425	61.44	61.44	FINANCE	11/03/2022
TOTAL VENDOR VILLAGE OF MUKWONAGO				61.44		
VENDOR NAME: WALWORTH CTY SECURITY ALARMS LLC						
16287	MUSEUM FIRE AND SECURITY ALARM REPAIRS	100-5512-582100	1,195.00	1,195.00	DPW	11/03/2022
TOTAL VENDOR WALWORTH CTY SECURITY ALARMS LLC				1,195.00		
VENDOR NAME: WATERWAY OF MICHIGAN, LLC						
22-041	ANNUAL HOSE TESTING	150-5222-539500	6,945.00	6,945.00	FIRE	11/03/2022
TOTAL VENDOR WATERWAY OF MICHIGAN, LLC				6,945.00		
VENDOR NAME: WI DEPT OF JUSTICE-TIME						
45TIME-000013149	DOJ TIME SYSTEM AND BADGERNET 4TH QUARTE	100-5211-522900	2,244.00	2,244.00	POLICE	11/03/2022
TOTAL VENDOR WI DEPT OF JUSTICE-TIME				2,244.00		
GRAND TOTAL:				138,201.03		

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
10/14/2022	GEN	35172	IMIL1846466	ALSCO	OUTSIDE SERVICES	531000	5511	29.16
10/14/2022	GEN	35173#	1F3K-1P1T-HP4Y	AMAZON CAPITOL SERVICES	SUPPLIES	531100	5511	307.41
			11PJ-WFCG-X96V		META SPACE EQUIPMENT & SUPPLIE	531400	5511	37.20
			13NV-W7LJ-QY6N		PROGRAMMING	533100	5511	25.98
			1F3K-1P1T-NWQ1		PROGRAMMING	533100	5511	396.16
			19JX-TDQY-NLCD		PROGRAMMING	533100	5511	29.98
			11PJ-WFCG-LF1Q		PROGRAMMING	533100	5511	44.97
			11PJ-WFCG-PRDJ		AV MATERIAL	532900	5700	1,188.58
CHECK GEN 35173 TOTAL FOR FUN								2,030.28
10/14/2022	GEN	35174	2036972807	BAKER & TAYLOR INC.	BOOKS	532800	5700	305.68
			2037002640		BOOKS	532800	5700	1,020.94
			2037027883		BOOKS	532800	5700	199.54
			2037032086		BOOKS	532800	5700	428.46
			2037032087		BOOKS	532800	5700	92.31
			2037035684		BOOKS	532800	5700	32.80
			2037035685		BOOKS	532800	5700	647.14
			2037050953		BOOKS	532800	5700	41.97
			2037050954		BOOKS	532800	5700	200.71
CHECK GEN 35174 TOTAL FOR FUN								2,969.55
10/14/2022	GEN	35175	1972	BERNSTEIN & ASSOCIATES	DONATED FUND EXPENDITURES	580600	5890	1,560.00
10/14/2022	GEN	35176	B6488722	BRODART	BOOKS	532800	5700	862.20
			B6488744		BOOKS	532800	5700	405.06
			B6492189		BOOKS	532800	5700	341.65
			B6492266		BOOKS	532800	5700	147.14
			B6493462		BOOKS	532800	5700	218.45
			B6494422		BOOKS	532800	5700	96.08
			B6497151		BOOKS	532800	5700	377.57
CHECK GEN 35176 TOTAL FOR FUN								2,448.15
10/14/2022	GEN	35177	78989906	CENGAGE LEARNING	BOOKS	532800	5700	59.18
			79028106		BOOKS	532800	5700	31.19
			79053263		BOOKS	532800	5700	24.79
			79116675		BOOKS	532800	5700	20.79
			79274796		BOOKS	532800	5700	77.57
CHECK GEN 35177 TOTAL FOR FUN								213.52

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Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
10/14/2022	GEN	35178	1956301	CENTER POINT LARGE PRINT	BOOKS	532800	5700	57.34
			1963904		BOOKS	532800	5700	136.35
				CHECK GEN 35178 TOTAL FOR FUN				193.69
10/14/2022	GEN	35179	20347	DYNAMIC AWARDS	SUPPLIES	531100	5511	16.00
10/14/2022	GEN	35180	OCTOBER	EMILY CEITHAMER	MILEAGE	533200	5511	85.38
			102022		TRAINING & TRAVEL	533500	5511	61.33
				CHECK GEN 35180 TOTAL FOR FUN				146.71
10/14/2022	GEN	35181	2194-9075	FAST SIGNS	PROGRAMMING	533100	5511	133.38
10/14/2022	GEN	35182	32503359	GREAT AMERICAN FINANCIAL SVCS	OUTSIDE SERVICES	531000	5511	353.14
10/14/2022	GEN	35183	930025657	ILLINGWORTH KILGUST	CONTRACTUAL SERVICES	522000	5511	2,263.00
10/14/2022	GEN	35184	2698736	IMPACT ACQUISITIONS, LLC	OUTSIDE SERVICES	531000	5511	623.30
10/14/2022	GEN	35185	11122022	KENOSHA PUBLIC MUSEUM	PROGRAMMING	533100	5511	200.00
10/14/2022	GEN	35186	620	KLASSY KLEANERS	OUTSIDE SERVICES	531000	5511	1,080.00
10/14/2022	GEN	35187	015471	MICHAEL FREDERICK	BOOKS	532800	5700	60.00
10/14/2022	GEN	35188	502756840	MIDWEST TAPE	DIGITAL MATERIALS	534000	5511	522.80
10/14/2022	GEN	35189	1192022	MILWAUKEE BALLETT COMPANY,	IN PROGRAMMING	533100	5511	175.00
10/14/2022	GEN	35190	27868307	QUILL LLC	SUPPLIES	531100	5511	94.25
			28016407		SUPPLIES	531100	5511	255.53
			28016879		SUPPLIES	531100	5511	204.98
			28013226		SUPPLIES	531100	5511	126.32
				CHECK GEN 35190 TOTAL FOR FUN				681.08
10/14/2022	GEN	35191	5065625596	RICOH USA, INC	OUTSIDE SERVICES	531000	5511	99.99
10/14/2022	GEN	35192	110955	ROMAN ELECTRIC CO., INC.	REPAIRS & MAINTENANCE	539500	5511	323.70
10/14/2022	GEN	35193	154744109	ULINE	DONATED FUND EXPENDITURES	580600	5890	902.16
10/14/2022	GEN	35194	6105930	UNIQUE MANAGEMENT	OUTSIDE SERVICES	531000	5511	9.85
10/14/2022	GEN	35195	16241	WALWORTH CTY SECURITY ALARMS	CONTRACTUAL SERVICES	522000	5511	540.00
10/14/2022	GEN	35196	15607	WI LIBRARY ASSOCIATION	TRAINING & TRAVEL	533500	5511	375.00

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35172 - 35196

Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
Fund: 440 LIBRARY FUND								
					Total for fund 440 LIBRARY FUND			17,949.46
TOTAL - ALL FUNDS								17,949.46

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/25/2022	GEN	545 (E)	CHARTER COMMUNICATIONS	SEPTEMBER - OCTOBER 2022 MONTHLY BILL	100-5120-522500	37.82
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5141-522500	16.00
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5142-522500	144.35
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5145-522900	70.55
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5160-522500	29.45
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5211-522500	460.57
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5241-522500	41.09
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5323-522500	74.19
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	100-5512-522500	177.96
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	150-5221-522500	369.50
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	410-5363-522500	4.58
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	440-5511-522500	295.31
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	500-5344-522500	2.29
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	610-6920-692100	38.95
		545 (E)		SEPTEMBER - OCTOBER 2022 MONTHLY	620-8400-851000	38.95
						1,801.56
TOTAL - ALL FUNDS				TOTAL OF 1 CHECKS		1,801.56

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INVOICE REGISTER REPORT FOR MUKWONAGO
 EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
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 BANK CODE: GEN - CHECK TYPE: EFT
 CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
Purchase Card Vendor: 0002 US BANK							
ARMOUR ABBY 55909	WAL-MART #1571 BINGO PRIZES 440-5511-533100	09/20/2022 MROCKLEY	10/25/2022	14.70	0.00	Paid	Y 10/25/2022
	PROGRAMMING			14.70			
ARMOUR ABBY 55910	DOLLAR GENERAL #10855 BINGO PRIZES 440-5511-533100	09/20/2022 MROCKLEY	10/25/2022	29.35	0.00	Paid	Y 10/25/2022
	PROGRAMMING			29.35			
ARMOUR ABBY 55911	FORMSTACK, LLC TEAMS MONTHLY CHARGE9/24/22-10/23/22 440-5511-534000	09/25/2022 MROCKLEY	10/25/2022	99.00	0.00	Paid	Y 10/25/2022
	DIGITAL MATERIALS			99.00			
ARMOUR ABBY 55912	WISCONSIN LIBRARY ASSOCIA WLA CONFERENCE 440-5511-533500	09/26/2022 MROCKLEY	10/25/2022	390.00	0.00	Paid	Y 10/25/2022
	TRAINING & TRAVEL			390.00			
ARMOUR ABBY 55913	DROPBOX*7YC25L79LCG6 9/29/22-10/29/22/ NAGPRA 440-5890-580600	09/29/2022 MROCKLEY	10/25/2022	11.99	0.00	Paid	Y 10/25/2022
	DONATED FUND EXPENDITURES			11.99			
ARMOUR ABBY 55914	MENARDS WAUKESHA WI JACK-O-LANTERN JAUNT DISPLAY 440-5890-580600	10/06/2022 MROCKLEY	10/25/2022	177.82	0.00	Paid	Y 10/25/2022
	DONATED FUND EXPENDITURES			177.82			
BITTNER RONALD 55915	SWEETWATER SOUND PERFORMANCE STAGE WIRING 480-5700-584900	09/24/2022 MROCKLEY	10/25/2022	246.80	0.00	Paid	Y 10/25/2022
	PARK IMPROVEMENT PROJECTS			246.80			
BITTNER RONALD 55916	BARCO PRODUCTS COMPANY PARK BENCHES 100-5521-531100 340-5890-580601	09/27/2022 MROCKLEY	10/25/2022	2,626.55	0.00	Paid	Y 10/25/2022
	SUPPLIES			1,751.04			
	DPW-DONATED FUNDS EXPENDITURE			875.51			

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INVOICE REGISTER REPORT FOR MUKWONAGO
 EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
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 CREDIT CARD TRANSACTIONS FOR BOARD
 SORTED BY CARDHOLDER

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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
BITTNER RONALD							
55917	WM SUPERCENTER #1571	09/27/2022	10/25/2022	108.78	0.00	Paid	Y
	PRINTER INK	MROCKLEY					10/25/2022
	100-5323-531100	SUPPLIES		108.78			
BITTNER RONALD							
55918	UWCC REGISTRATIONS	10/13/2022	10/25/2022	269.00	0.00	Paid	Y
	VAN AAKEN AWPW CLASSSES	MROCKLEY					10/25/2022
	100-5323-533500	TRAINING & TRAVEL		269.00			
BITTNER RONALD							
55919	UWCC REGISTRATIONS	10/13/2022	10/25/2022	150.00	0.00	Paid	Y
	VAN AACKEN AWPW TRAINING	MROCKLEY					10/25/2022
	100-5323-533500	TRAINING & TRAVEL		150.00			
BONK JASON							
55920	USPS PO 5657100149	10/05/2022	10/25/2022	4.80	0.00	Paid	Y
	WATER MONTHLY FLOURIDE SAMPLE	MROCKLEY					10/25/2022
	610-6300-663200	OPERATION SUPPLY/EXP-TREATMENT		4.80			
BROWN DAVID							
55921	TST* ANDUZZI'S SPORTS CLU	10/05/2022	10/25/2022	17.13	0.00	Paid	Y
	WWTF WWOA SUPPER CORRECTION	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		17.13			
BROWN DAVID							
55922	CITY OF GREEN BAY	10/05/2022	10/25/2022	6.80	0.00	Paid	Y
	WWTF WWOA PARKING	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		6.80			
BROWN DAVID							
55923	CITY OF GREEN BAY	10/06/2022	10/25/2022	5.95	0.00	Paid	Y
	WWTF WWOA PARKING	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		5.95			
CASTLE WAYNE A							
55924	AUTOGRAPH HOTELS	10/07/2022	10/25/2022	294.00	0.00	Paid	Y
	WWTF WWOA WAYNE HOTEL	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		294.00			

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						

Purchase Card Vendor: 0002 US BANK

CASTLE WAYNE A

55925	WIAWWA	10/10/2022	10/25/2022	25.00	0.00	Paid	Y
	WATER WAYNE CLASS FOR LEAD AND	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		25.00			

DEMOTTO CHRIS

55926	REGISTER@FAA 344NXP4	09/21/2022	10/25/2022	5.00	0.00	Paid	Y
	FAA DRONE REGISTRATION	MROCKLEY					10/25/2022
	340-5890-580602	POLICE DONATED FUND EXPENDITURES		5.00			

DEMOTTO CHRIS

55927	KALAHARI RESORT - WI	09/23/2022	10/25/2022	180.00	0.00	Paid	Y
	PHOENIX CONFERENCE KALARAHI STAY	MROCKLEY					10/25/2022
	100-5211-533500	TRAINING & TRAVEL		180.00			

DEMOTTO CHRIS

55928	KALAHARI RESORT - WI	09/23/2022	10/25/2022	180.00	0.00	Paid	Y
	PHOENIX CONFERENCE KALAHARI STAY	MROCKLEY					10/25/2022
	100-5211-533500	TRAINING & TRAVEL		180.00			

DYKSTRA DIANA

55929	WM SUPERCENTER #1571	10/05/2022	10/25/2022	3.15	0.00	Paid	Y
	BADGER BOOK BOXES	MROCKLEY					10/25/2022
	100-5144-531100	SUPPLIES		3.15			

DYKSTRA DIANA

55930	VBS*VONAGE BUSINESS	10/12/2022	10/25/2022	983.18	0.00	Paid	Y
	OCTOBER-NOVEMBER 2022 MONTHLY PHONE	MROCKLEY					10/25/2022
	100-5141-522500	TELEPHONE		12.66			
	100-5142-522500	TELEPHONE		63.44			
	100-5145-522900	SOFTWARE SUPPORT/MAINTENANCE		50.64			
	100-5241-522500	TELEPHONE		25.33			
	100-5632-522500	TELEPHONE		12.66			
	100-5323-522500	TELEPHONE		25.45			
	100-5512-522500	TELEPHONE		12.67			
	100-5120-522500	TELEPHONE		12.66			
	100-5211-522500	TELEPHONE		235.03			
	150-5221-522500	TELEPHONE		230.55			
	440-5511-522500	TELEPHONE		248.82			
	610-6920-692100	OFFICE SUPPLIES & EXPENSES		26.64			

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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnalized Post Date
Purchase Card Vendor: 0002 US BANK							
	620-8400-851000	OFFICE SUPPLIES & EXPENSES		26.63			
GOURDOUX LINDA							
55931	COUSINS SUBS #9160	09/22/2022	10/25/2022	48.24	0.00	Paid	Y
	ELECTION INSPECTORS LUNCH	MROCKLEY					10/25/2022
	100-5144-531100	ELECTION INSPECTOR LUNCH		48.24			
ISELY MARY JO							
55932	THE MUSIC CAFE	09/16/2022	10/25/2022	16.79	0.00	Paid	Y
	UKULELE RESTRING & TUNE	MROCKLEY					10/25/2022
	440-5511-533000	THINGERY PURCHASES		16.79			
ISELY MARY JO							
55933	WALMART.COM 8009666546	09/29/2022	10/25/2022	68.92	0.00	Paid	Y
	DVDS	MROCKLEY					10/25/2022
	440-5700-532900	AV MATERIAL		68.92			
ISELY MARY JO							
55934	NETFLIX.COM	10/01/2022	10/25/2022	19.99	0.00	Paid	Y
	STREAMING SERVICE 10/1/22-10/31/22	MROCKLEY					10/25/2022
	440-5511-533000	THINGERY PURCHASES		19.99			
KIM CATHRYN							
55935	ELEGANT FARMER	09/23/2022	10/25/2022	50.00	0.00	Paid	Y
	PROGRAM PRIZE	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		50.00			
KIM CATHRYN							
55936	SP IMAGE SUPPLY	09/27/2022	10/25/2022	51.65	0.00	Paid	Y
	LABLE MAKER TAPE	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		51.65			
KIM CATHRYN							
55937	WAL-MART #1571	09/28/2022	10/25/2022	53.19	0.00	Paid	Y
	CLEANING SUPLLIES	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		53.19			
KIM CATHRYN							
55938	PICK N SAVE #384	10/05/2022	10/25/2022	6.99	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		6.99			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
KIM CATHRYN							
55939	SQ *SCHUETT FARMS	10/05/2022	10/25/2022	21.00	0.00	Paid	Y
	PUMPKINS	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		21.00			
KIM CATHRYN							
55940	KWIK TRIP 28200002824	10/05/2022	10/25/2022	100.00	0.00	Paid	Y
	SURVEY PRIZE	MROCKLEY					10/25/2022
	440-5890-580600	DONATED FUND EXPENDITURES		100.00			
KIM CATHRYN							
55941	FUN EXPRESS	10/05/2022	10/25/2022	156.36	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		156.36			
KIM CATHRYN							
55942	MAILCHIMP *MISC	10/08/2022	10/25/2022	69.99	0.00	Paid	Y
	NEWSLETTER 9/8-10/7	MROCKLEY					10/25/2022
	440-5511-534000	DIGITAL MATERIALS		69.99			
KIM CATHRYN							
55943	QDOBA 1857 CATERING	10/08/2022	10/25/2022	267.75	0.00	Paid	Y
	STAFF TRAINING MEAL	MROCKLEY					10/25/2022
	440-5511-533500	TRAINING & TRAVEL		267.75			
KIM CATHRYN							
55944	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	23.97	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		23.97			
KIM CATHRYN							
55945	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	23.97	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		23.97			
KIM CATHRYN							
55946	WM SUPERCENTER #1571	10/12/2022	10/25/2022	203.56	0.00	Paid	Y
	PROGRAM SUPPLIES	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		203.56			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
KIM CATHRYN							
55947	WAL-MART #1571	10/13/2022	10/25/2022	9.66	0.00	Paid	Y
	PAINT	MROCKLEY					10/25/2022
	440-5511-533100	PROGRAMMING		9.66			
KIM CATHRYN							
55948	WALGREENS #7039	10/13/2022	10/25/2022	9.88	0.00	Paid	Y
	CARDS	MROCKLEY					10/25/2022
	440-5511-531100	SUPPLIES		9.88			
KINDER MATTHEW							
55949	OPC*WISCONSIN RURAL WTR	10/04/2022	10/25/2022	50.00	0.00	Paid	Y
	WATER CLASS FOR BACKFLOW PREVENTER	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		50.00			
KINDER MATTHEW							
55950	OPC MSC*SERVICE FEE 024	10/04/2022	10/25/2022	6.05	0.00	Paid	Y
	WATER BACKFLOW PREVENTER	MROCKLEY					10/25/2022
	610-6920-693000	MISC GENERAL EXPENSES		6.05			
KINDER MATTHEW							
55951	THE HOME DEPOT #4921	10/13/2022	10/25/2022	140.47	0.00	Paid	Y
	WATER/WWTF HYD WINTERIZATION, SHOP	MROCKLEY					10/25/2022
	610-6454-665400	MAINTENANCE-HYDRANTS		100.00			
	620-8010-827000	OPERATION SUPPLY/EXPENSE		40.47			
KREISER ROBERT							
55952	SP SCOTT COMPANY DRU	09/16/2022	10/25/2022	74.97	0.00	Paid	Y
	DRUG TESTING KITS	MROCKLEY					10/25/2022
	100-5212-531100	SUPPLIES		74.97			
KREISER ROBERT							
55953	WAL-MART #1571	10/05/2022	10/25/2022	67.72	0.00	Paid	Y
	USB DRIVES AND EMPLOYEE PHOTO	MROCKLEY					10/25/2022
	100-5213-531100	SUPPLIES		67.72			
KREISER ROBERT							
55954	AMZN MKTP US*1K9BK2C31	10/06/2022	10/25/2022	76.57	0.00	Paid	Y
	FLASH DRIVES	MROCKLEY					10/25/2022
	100-5213-531100	SUPPLIES		76.57			

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Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
MILLER KENNETH							
55955	MENARDS BURLINGTON WI	09/15/2022	10/25/2022	122.31	0.00	Paid	Y
	WWTF SKIMMER DIVERTER BAORD FOR	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		122.31			
MILLER KENNETH							
55956	THE HOME DEPOT #4921	09/27/2022	10/25/2022	79.13	0.00	Paid	Y
	WWTF RIVERPARKS DISH POLE MOUNTING	MROCKLEY					10/25/2022
	620-8020-832000	MAINTENANCE-LIFT STATIONS/PUMP		79.13			
MILLER KENNETH							
55957	JACOR INC.	09/28/2022	10/25/2022	388.70	0.00	Paid	Y
	WWTF GARAGE DOOR SEALS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		388.70			
MILLER KENNETH							
55958	THE HOME DEPOT #4921	09/28/2022	10/25/2022	25.74	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		25.74			
MILLER KENNETH							
55959	QUALITY INN WI206	10/04/2022	10/25/2022	136.80	0.00	Paid	Y
	WWTF WWOA HOTEL KEN M	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		136.80			
MILLER KENNETH							
55960	QUALITY INN WI206	10/04/2022	10/25/2022	158.01	0.00	Paid	Y
	WWTF WWOA HOTEL DAVE B	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		158.01			
MILLER KENNETH							
55961	TST* ANDUZZI'S SPORTS CLU	10/05/2022	10/25/2022	50.63	0.00	Paid	Y
	WWTF WWOA SUPPER DAVE AND KEN	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		50.63			
MILLER KENNETH							
55962	US BANK	10/12/2022	10/25/2022	(21.21)	0.00	Paid	Y
	WWTF WWOA DAVE B HOTEL TAX CREDIT	MROCKLEY					10/25/2022
	620-8400-854100	EDUCATIONAL/TRAINING EXPENSES		(21.21)			

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	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
MILLER KENNETH							
55963	H A GUDEN COMPANY INC	10/13/2022	10/25/2022	67.79	0.00	Paid	Y
	WWTF UV COVER SUPPORT SHOCKS	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		67.79			
SMITH JAMES A							
55964	THE HOME DEPOT #4921	09/27/2022	10/25/2022	166.81	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		166.81			
SMITH JAMES A							
55965	THE HOME DEPOT #4921	09/28/2022	10/25/2022	18.50	0.00	Paid	Y
	WWTF GARAGE DOOR REPAIRS	MROCKLEY					10/25/2022
	620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES		18.50			
SMITH JAMES A							
55966	BATTERIES PLUS #0580	10/10/2022	10/25/2022	459.50	0.00	Paid	Y
	WATER/WWTF REPLACEMENT BATTERIES FOR MROCKLEY						10/25/2022
	610-6200-662500	MAINTENANCE-PUMPING		230.00			
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		229.50			
SMITH JAMES A							
55967	BATTERIES PLUS #0540	10/12/2022	10/25/2022	105.26	0.00	Paid	Y
	WWTF UPS BATTERIES	MROCKLEY					10/25/2022
	620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT		105.26			
SMITH JAMES A							
55968	WM SUPERCENTER #1571	10/14/2022	10/25/2022	9.28	0.00	Paid	Y
	WWTF OFFICE SUPPLIES	MROCKLEY					10/25/2022
	620-8400-851000	OFFICE SUPPLIES & EXPENSES		9.28			
STIEN JEFFREY R							
55969	AMZN MKTP US*1M8914GW1	09/15/2022	10/25/2022	94.00	0.00	Paid	Y
	EMS SUPPLIES	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		94.00			
STIEN JEFFREY R							
55970	TOKYO STEAKHOUSE	09/22/2022	10/25/2022	40.24	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		40.24			

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Purchase Card Vendor: 0002 US BANK							
STIEN JEFFREY R							
55971	KWIK TRIP 20200002022	09/22/2022	10/25/2022	9.06	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		9.06			
STIEN JEFFREY R							
55972	RED LOBSTER 0377	09/22/2022	10/25/2022	17.67	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		17.67			
STIEN JEFFREY R							
55973	HILLTOP PUB & GRILL	09/23/2022	10/25/2022	27.20	0.00	Paid	Y
	MABAS CONFERENCE-STIEN	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		27.20			
STIEN JEFFREY R							
55974	WAVE - *NEXTEL WIRELESS S	09/26/2022	10/25/2022	36.98	0.00	Paid	Y
	CAR 1 LOANER REPAIR	MROCKLEY					10/25/2022
	150-5222-539500	REPAIRS & MAINTENANCE		36.98			
STIEN JEFFREY R							
55975	WAL-MART #1571	09/27/2022	10/25/2022	38.78	0.00	Paid	Y
	STATION SUPPLIES	MROCKLEY					10/25/2022
	150-5221-531100	SUPPLIES		38.78			
STIEN JEFFREY R							
55976	AMZ*POWERSTREAM TECH	10/01/2022	10/25/2022	32.15	0.00	Paid	Y
	CONVERTER	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		32.15			
STIEN JEFFREY R							
55977	NATIONAL REGISTRY EMT	10/05/2022	10/25/2022	32.00	0.00	Paid	Y
	NREMT STIEN RECERTIFICATION	MROCKLEY					10/25/2022
	150-5221-533500	TRAINING & TRAVEL		32.00			
STIEN JEFFREY R							
55978	ALL STAR RENTALS	10/06/2022	10/25/2022	899.32	0.00	Paid	Y
	FIRE PREVENTION OPEN HOUSE	MROCKLEY					10/25/2022
	150-5221-531300	FIRE PREVENTION MATERIALS		899.32			

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	GL Distribution						
Purchase Card Vendor: 0002 US BANK							
STIEN JEFFREY R							
55979	HAHN ACE - MUKWONAGO	10/11/2022	10/25/2022	692.97	0.00	Paid	Y
	HAHN ACE HARDWARE STIHL BATTERY SAW- MROCKLEY						10/25/2022
	150-5700-571300 FIRE DEPT CAPITAL EQUIP			692.97			
STIEN JEFFREY R							
55980	WPSG, INC.	10/14/2022	10/25/2022	190.72	0.00	Paid	Y
	WILDLAND BRROMS- DNR GRANT MROCKLEY						10/25/2022
	150-5222-531100 SUPPLIES			190.72			
STREIT DANIEL							
55981	AMZN MKTP US*1U2Z15D61	09/26/2022	10/25/2022	9.49	0.00	Paid	Y
	BATTERIES MROCKLEY						10/25/2022
	100-5211-531100 SUPPLIES			9.49			
STREIT DANIEL							
55982	VISTAPRINT	10/02/2022	10/25/2022	144.99	0.00	Paid	Y
	BUSINESS CARDS - CIEZYNSKI PINKOWSKI MROCKLEY						10/25/2022
	100-5212-534600 CLOTHING ALLOWANCE			144.99			
STREIT DANIEL							
55983	APCO INTERNATIONAL INC	10/10/2022	10/25/2022	361.00	0.00	Paid	Y
	APCO GROUP MEMBERSHIP MROCKLEY						10/25/2022
	100-5211-532400 MEMBERSHIP DUES			361.00			
STREIT DANIEL							
55984	DNH*GODADDY.COM	10/15/2022	10/25/2022	499.98	0.00	Paid	Y
	GODADDY SSL RENEWAL MROCKLEY						10/25/2022
	100-5211-522900 SOFTWARE SUPPORT/MAINTENANCE			499.98			
SURA MATTHEW J							
55985	SMARTSIGN	09/19/2022	10/25/2022	372.49	0.00	Paid	Y
	EMS SUPPLIES- LABELS MROCKLEY						10/25/2022
	150-5231-531100 SUPPLIES			372.49			
SURA MATTHEW J							
55986	PAYPAL *GBTECHUSA	10/02/2022	10/25/2022	318.00	0.00	Paid	Y
	EMS SUPPLIES MROCKLEY						10/25/2022
	150-5231-531100 SUPPLIES			318.00			

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SURA MATTHEW J							
55987	APPLE.COM/BILL	10/08/2022	10/25/2022	0.99	0.00	Paid	Y
	APLLE ICLOUD STORAGE	MROCKLEY					10/25/2022
	150-5231-531100	SUPPLIES		0.99			

SURA MATTHEW J							
55988	FULLY PROMOTED	10/12/2022	10/25/2022	317.85	0.00	Paid	Y
	FICKAU CLOTHING	MROCKLEY					10/25/2022
	150-5221-534600	CLOTHING ALLOWANCE		317.85			

Total Purchase Card Vendor: 0002 US BANK				13,349.82	0.00		
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# of Invoices:	79	# Due:	0	Totals:	13,371.03	0.00	
# of Credit Memos:	1	# Due:	0	Totals:	(21.21)	0.00	

Net of Invoices and Credit Memos:				13,349.82	0.00		
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--- TOTALS BY GL DISTRIBUTION ---

100-5120-522500	TELEPHONE	12.66
100-5141-522500	TELEPHONE	12.66
100-5142-522500	TELEPHONE	63.44
100-5144-531100	SUPPLIES	51.39
100-5145-522900	SOFTWARE SUPPORT/MAINTENANCE	50.64
100-5211-522500	TELEPHONE	235.03
100-5211-522900	SOFTWARE SUPPORT/MAINTENANCE	499.98
100-5211-531100	SUPPLIES	9.49
100-5211-532400	MEMBERSHIP DUES	361.00
100-5211-533500	TRAINING & TRAVEL	360.00
100-5212-531100	SUPPLIES	74.97
100-5212-534600	CLOTHING ALLOWANCE	144.99
100-5213-531100	SUPPLIES	144.29
100-5241-522500	TELEPHONE	25.33
100-5323-522500	TELEPHONE	25.45
100-5323-531100	SUPPLIES	108.78
100-5323-533500	TRAINING & TRAVEL	419.00
100-5512-522500	TELEPHONE	12.67
100-5521-531100	SUPPLIES	1,751.04
100-5632-522500	TELEPHONE	12.66

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INVOICE REGISTER REPORT FOR MUKWONAGO
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CREDIT CARD TRANSACTIONS FOR BOARD
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
150-5221-522500	TELEPHONE			230.55			
150-5221-531100	SUPPLIES			38.78			
150-5221-531300	FIRE PREVENTION MATERIALS			899.32			
150-5221-533500	TRAINING & TRAVEL			126.17			
150-5221-534600	CLOTHING ALLOWANCE			317.85			
150-5222-531100	SUPPLIES			190.72			
150-5222-539500	REPAIRS & MAINTENANCE			36.98			
150-5231-531100	SUPPLIES			817.63			
150-5700-571300	FIRE DEPT CAPITAL EQUIP			692.97			
340-5890-580601	DPW-DONATED FUNDS EXPENDITURE			875.51			
340-5890-580602	POLICE DONATED FUND EXPENDITURES			5.00			
440-5511-522500	TELEPHONE			248.82			
440-5511-531100	SUPPLIES			114.72			
440-5511-533000	THINGERY PURCHASES			36.78			
440-5511-533100	PROGRAMMING			539.56			
440-5511-533500	TRAINING & TRAVEL			657.75			
440-5511-534000	DIGITAL MATERIALS			168.99			
440-5700-532900	AV MATERIAL			68.92			
440-5890-580600	DONATED FUND EXPENDITURES			289.81			
480-5700-584900	PARK IMPROVEMENT PROJECTS			246.80			
610-6200-662500	MAINTENANCE-PUMPING			230.00			
610-6300-663200	OPERATION SUPPLY/EXP-TREATMENT			4.80			
610-6454-665400	MAINTENANCE-HYDRANTS			100.00			
610-6920-692100	OFFICE SUPPLIES & EXPENSES			26.64			
610-6920-693000	MISC GENERAL EXPENSES			81.05			
620-8010-827000	OPERATION SUPPLY/EXPENSE			40.47			
620-8010-833000	MAINT-TREATMENT/DISPOSAL PLANT			524.86			
620-8010-834000	MAINT-GENERAL PLANT/STRUCTURES			599.75			
620-8020-832000	MAINTENANCE-LIFT STATIONS/PUMP			79.13			
620-8400-851000	OFFICE SUPPLIES & EXPENSES			35.91			
620-8400-854100	EDUCATIONAL/TRAINING EXPENSES			648.11			

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
	GL Distribution						
--- TOTALS BY FUND ---							
	100 - GENERAL FUND			4,375.47	0.00		
	150 - FIRE/AMBULANCE FUND			3,350.97	0.00		
	340 - VILLAGE DESIGNATED FUND			880.51	0.00		
	440 - LIBRARY FUND			2,125.35	0.00		
	480 - CAPITAL IMPROVEMENT FUND			246.80	0.00		
	610 - WATER UTILITY FUND			442.49	0.00		
	620 - SEWER UTILITY FUND			1,928.23	0.00		
--- TOTALS BY DEPT/ACTIVITY ---							
	5120 - MUNICIPAL COURT			12.66	0.00		
	5141 - VILLAGE ADMINISTRATOR			12.66	0.00		
	5142 - CLERK-TREASURER			63.44	0.00		
	5144 - ELECTIONS			51.39	0.00		
	5145 - FINANCE DEPARTMENT			50.64	0.00		
	5211 - POLICE ADMINISTRATION			1,465.50	0.00		
	5212 - POLICE PATROL			219.96	0.00		
	5213 - CRIME INVESTIGATION			144.29	0.00		
	5221 - FIRE ADMINISTRATION			1,612.67	0.00		
	5222 - FIRE SUPPRESSION			227.70	0.00		
	5231 - AMBULANCE			817.63	0.00		
	5241 - BUILDING INSPECTOR			25.33	0.00		
	5323 - GARAGE			553.23	0.00		
	5511 - LIBRARY SERVICES			1,766.62	0.00		
	5512 - MUSEUM			12.67	0.00		
	5521 - PARKS			1,751.04	0.00		
	5632 - PLANNING DEPARTMENT			12.66	0.00		
	5700 - CAPITAL OUTLAY EXPENDITURES			1,008.69	0.00		
	5890 - USE OF DESIGNATED FUNDS			1,170.32	0.00		
	6200 - PUMPING OPERATIONS			230.00	0.00		
	6300 - WATER TREATMENT OPERATIONS			4.80	0.00		
	6454 - T&D-HYDRANTS MAINTENANCE			100.00	0.00		
	6920 - ADMINISTRATIVE & GENERAL EX			107.69	0.00		
	8010 - WWTP-TREATMENT/DISPOSAL/GP			1,165.08	0.00		
	8020 - LIFT STATIONS/PUMPING EQUIP			79.13	0.00		
	8400 - ADMINISTRATIVE & GENERAL			684.02	0.00		
--- TOTALS BY PAYMENT CARD ACCOUNT ---							
	0707			1,047.97			
	1051			196.52			
	1275			29.88			

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INVOICE REGISTER REPORT FOR MUKWONAGO
EXP CHECK RUN DATES 10/25/2022 - 10/25/2022
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Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
GL Distribution							
--- TOTALS BY PAYMENT CARD ACCOUNT ---							
	2365			105.70			
	2544			986.33			
	3064			365.00			
	4175			219.26			
	5311			722.86			
	5538			1,015.46			
	5724			1,009.33			
	6347			48.24			
	6370			2,111.09			
	6639			319.00			
	7403			759.35			
	8389			1,007.90			
	8764			4.80			
	9708			3,401.13			

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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 55989	WE ENERGIES 0700126680-00001 Digester Gas 620-8010-821200	09/27/2022 MROCKLEY 0700126680-00001 Digester Gas	10/19/2022	4,138.09 4,138.09	0.00	Paid	Y 10/19/2022
4303895772 55990	WE ENERGIES 0700126680-00002 Well #3 Elec 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00002 Well #3 Elec	10/19/2022	1,359.84 1,359.84	0.00	Paid	Y 10/19/2022
4303895772 55991	WE ENERGIES 0700126680-00003 Street Lights 100-5342-522200	09/27/2022 MROCKLEY 0700126680-00003 Street Lights	10/19/2022	3,783.20 3,783.20	0.00	Paid	Y 10/19/2022
4303895772 55992	WE ENERGIES 0700126680-00004 Greenwald 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00004 Greenwald	10/19/2022	164.15 164.15	0.00	Paid	Y 10/19/2022
4303895772 55993	WE ENERGIES 0700126680-00005 Booster Station 610-6200-662200	09/27/2022 MROCKLEY 0700126680-00005 Booster Station	10/19/2022	428.68 428.68	0.00	Paid	Y 10/19/2022
4303895772 55994	WE ENERGIES 0700126680-00007 1240 N. Rochester 620-8020-821000	09/27/2022 MROCKLEY 0700126680-00007 1240 N. Rochester	10/19/2022	85.62 85.62	0.00	Paid	Y 10/19/2022
4303895772 55995	WE ENERGIES 0700126680-00008 Police Garage 100-5211-522200	09/27/2022 MROCKLEY 0700126680-00008 Police Garage	10/19/2022	36.18 36.18	0.00	Paid	Y 10/19/2022
4303895772 55996	WE ENERGIES 0700126680-00009 Fld Prk Baseball 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00009 Fld Prk Baseball Lights	10/19/2022	22.04 22.04	0.00	Paid	Y 10/19/2022
4303895772 55997	WE ENERGIES 0700126680-00010 Fox River View 620-8020-821000	09/27/2022 MROCKLEY 0700126680-00010 Fox River View	10/19/2022	118.09 118.09	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 55998	WE ENERGIES 0700126680-000011 DPW Elec 100-5323-522200	09/27/2022 MROCKLEY 0700126680-000011 DPW Elec	10/19/2022	345.49 345.49	0.00	Paid	Y 10/19/2022
4303895772 55999	WE ENERGIES 0700126680-000012 Fire 150-5221-522200	09/27/2022 MROCKLEY 0700126680-000012 Fire	10/19/2022	1,266.02 1,266.02	0.00	Paid	Y 10/19/2022
4303895772 56000	WE ENERGIES 0700126680-000013 police-CTH E N of 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000013 police-CTH E N of Sugd	10/19/2022	18.72 18.72	0.00	Paid	Y 10/19/2022
4303895772 56001	WE ENERGIES 0700126680-000014 Hall 100-5160-522200	09/27/2022 MROCKLEY 0700126680-000014 Hall	10/19/2022	968.10 968.10	0.00	Paid	Y 10/19/2022
4303895772 56002	WE ENERGIES 0700126680-000014 Hall Gas 100-5160-522400	09/27/2022 MROCKLEY 0700126680-000014 Hall Gas	10/19/2022	30.78 30.78	0.00	Paid	Y 10/19/2022
4303895772 56003	WE ENERGIES 0700126680-000016 Miniwauken Park 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000016 Miniwauken Park	10/19/2022	31.71 31.71	0.00	Paid	Y 10/19/2022
4303895772 56004	WE ENERGIES 0700126680-000017 Holz Elec 620-8010-821100	09/27/2022 MROCKLEY 0700126680-000017 Holz Elec	10/19/2022	8,754.99 8,754.99	0.00	Paid	Y 10/19/2022
4303895772 56005	WE ENERGIES 0700126680-000018 Parks 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000018 Parks	10/19/2022	31.42 31.42	0.00	Paid	Y 10/19/2022
4303895772 56006	WE ENERGIES 0700126680-000019 Atkinson Pump 620-8020-821000	09/27/2022 MROCKLEY 0700126680-000019 Atkinson Pump	10/19/2022	400.53 400.53	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 56007	WE ENERGIES 0700126680-000020 Well #6 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000020 Well #6	10/19/2022	146.10 146.10	0.00	Paid	Y 10/19/2022
4303895772 56008	WE ENERGIES 0700126680-000021 DPW Gas 100-5323-522400	09/27/2022 MROCKLEY 0700126680-000021 DPW Gas	10/19/2022	25.50 25.50	0.00	Paid	Y 10/19/2022
4303895772 56009	WE ENERGIES 0700126680-000022 Concession 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000022 Concession Building	10/19/2022	290.11 290.11	0.00	Paid	Y 10/19/2022
4303895772 56010	WE ENERGIES 0700126680-000023 Well #3 Gas 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000023 Well #3 Gas	10/19/2022	9.90 9.90	0.00	Paid	Y 10/19/2022
4303895772 56011	WE ENERGIES 0700126680-000024 Parks-200 S 100-5342-522200	09/27/2022 MROCKLEY 0700126680-000024 Parks-200 S Rochester	10/19/2022	23.32 23.32	0.00	Paid	Y 10/19/2022
4303895772 56012	WE ENERGIES 0700126680-000027 Police 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000027 Police	10/19/2022	1,243.44 1,243.44	0.00	Paid	Y 10/19/2022
4303895772 56013	WE ENERGIES 0700126680-000028 Miniwaukan 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000028 Miniwaukan Pavilion	10/19/2022	16.25 16.25	0.00	Paid	Y 10/19/2022
4303895772 56014	WE ENERGIES 0700126680-000029 F. Park Sump Pump 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000029 F. Park Sump Pump	10/19/2022	21.47 21.47	0.00	Paid	Y 10/19/2022
4303895772 56015	WE ENERGIES 0700126680-000031 Holz Gas 620-8010-821200	09/27/2022 MROCKLEY 0700126680-000031 Holz Gas	10/19/2022	9.90 9.90	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 56016	WE ENERGIES 0700126680-000032 Well #4 Elec 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000032 Well #4 Elec	10/19/2022	1,602.22 1,602.22	0.00	Paid	Y 10/19/2022
4303895772 56017	WE ENERGIES 0700126680-000033 Parks 100-5521-522200	09/27/2022 MROCKLEY 0700126680-000033 Parks	10/19/2022	108.41 108.41	0.00	Paid	Y 10/19/2022
4303895772 56018	WE ENERGIES 0700126680-000034 Street Lights 100-5342-522200	09/27/2022 MROCKLEY 0700126680-000034 Street Lights	10/19/2022	57.70 57.70	0.00	Paid	Y 10/19/2022
4303895772 56019	WE ENERGIES 0700126680-000036 Flashers 100-5211-522200	09/27/2022 MROCKLEY 0700126680-000036 Flashers	10/19/2022	10.79 10.79	0.00	Paid	Y 10/19/2022
4303895772 56020	WE ENERGIES 0700126680-000037 Well #4 Gas 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000037 Well #4 Gas	10/19/2022	13.02 13.02	0.00	Paid	Y 10/19/2022
4303895772 56021	WE ENERGIES 0700126680-000038 Museum 100-5512-522200	09/27/2022 MROCKLEY 0700126680-000038 Museum	10/19/2022	480.30 480.30	0.00	Paid	Y 10/19/2022
4303895772 56022	WE ENERGIES 0700126680-000039 Well #5 610-6200-662200	09/27/2022 MROCKLEY 0700126680-000039 Well #5	10/19/2022	1,534.94 1,534.94	0.00	Paid	Y 10/19/2022
4303895772 56023	WE ENERGIES 0700126680-00043 Outdoor Stage 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00043 Outdoor Stage	10/19/2022	19.86 19.86	0.00	Paid	Y 10/19/2022
4303895772 56024	WE ENERGIES 0709449777-00001 Library Gas 440-5511-522400	09/27/2022 MROCKLEY 0709449777-00001 Library Gas	10/19/2022	444.18 444.18	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4303895772 56025	WE ENERGIES 0709449777-00002 Library Elec 440-5511-522200	09/27/2022 MROCKLEY 0709449777-00002 Library Elec	10/19/2022	3,097.78 3,097.78	0.00	Paid	Y 10/19/2022
4303895772 56026	WE ENERGIES 0712697628-00001 Tower Radio Bldg 100-5211-522200	09/27/2022 MROCKLEY 0712697628-00001 Tower Radio Bldg	10/19/2022	22.61 22.61	0.00	Paid	Y 10/19/2022
4303895772 56027	WE ENERGIES 0712697628-00002 Mukw Dam 100-5254-522200	09/27/2022 MROCKLEY 0712697628-00002 Mukw Dam	10/19/2022	23.19 23.19	0.00	Paid	Y 10/19/2022
4303895772 56028	WE ENERGIES 0712697628-00003 PD Tower meter 100-5211-522200	09/27/2022 MROCKLEY 0712697628-00003 PD Tower meter #05662	10/19/2022	44.02 44.02	0.00	Paid	Y 10/19/2022
4303895772 56029	WE ENERGIES 0712697628-00004 1224 Riverton 620-8020-821000	09/27/2022 MROCKLEY 0712697628-00004 1224 Riverton	10/19/2022	73.53 73.53	0.00	Paid	Y 10/19/2022
4303895772 56030	WE ENERGIES 0712697628-00006 Well #7 610-6200-662200	09/27/2022 MROCKLEY 0712697628-00006 Well #7	10/19/2022	1,216.98 1,216.98	0.00	Paid	Y 10/19/2022
4303895772 56031	WE ENERGIES 0712697628-00007 School Crossing 100-5342-522200	09/27/2022 MROCKLEY 0712697628-00007 School Crossing Lights	10/19/2022	16.25 16.25	0.00	Paid	Y 10/19/2022
4304276552 56032	WE ENERGIES 0700126680-00015 STREET LIGHTS 100-5342-522200	09/27/2022 MROCKLEY 0700126680-00015 STREET LIGHTS	10/19/2022	10,052.37 10,052.37	0.00	Paid	Y 10/19/2022
4294298558 56033	WE ENERGIES 0700126680-00006 Field Park 100-5521-522200	09/27/2022 MROCKLEY 0700126680-00006 Field Park	10/19/2022	60.80 60.80	0.00	Paid	Y 10/19/2022

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INVOICE REGISTER REPORT FOR MUKWONAGO
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Inv Num Inv Ref#	Vendor Description GL Distribution	Inv Date Entered By	Due Date	Inv Amt	Amt Due	Status	Jrnlized Post Date
4294298558 56034	WE ENERGIES 0700126680-000025 Tower 610-6200-662200	09/27/2022 MROCKLEY	10/19/2022	33.13	0.00	Paid	Y 10/19/2022
	0700126680-000025 Tower			33.13			
4294298558 56035	WE ENERGIES 0700126680-00030 Andrews Street 100-5521-522200	09/27/2022 MROCKLEY	10/19/2022	106.67	0.00	Paid	Y 10/19/2022
	0700126680-00030 Andrews Street			106.67			
# of Invoices:	47	# Due:	0	Totals:	42,788.39	0.00	
# of Credit Memos:	0	# Due:	0	Totals:	0.00	0.00	
Net of Invoices and Credit Memos:				42,788.39	0.00		

--- TOTALS BY GL DISTRIBUTION ---

100-5160-522200	ELECTRIC	968.10
100-5160-522400	GAS	30.78
100-5211-522200	ELECTRIC	1,375.76
100-5254-522200	ELECTRIC	23.19
100-5323-522200	ELECTRIC	345.49
100-5323-522400	GAS	25.50
100-5342-522200	ELECTRIC	13,932.84
100-5512-522200	ELECTRIC	480.30
100-5521-522200	ELECTRIC	708.74
150-5221-522200	ELECTRIC	1,266.02
440-5511-522200	ELECTRIC	3,097.78
440-5511-522400	GAS	444.18
610-6200-662200	FUEL OR POWER PURCHASED	6,508.96
620-8010-821100	WWTP ELECTRIC POWER	8,754.99
620-8010-821200	NAT GAS/ADMIN BLDG/HEAT EXCH	4,147.99
620-8020-821000	PUMPING POWER & FUEL	677.77

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INVOICE REGISTER REPORT FOR MUKWONAGO
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VENDOR CODE: 0034 - CHECK TYPE: EFT
WE ENERGIES REPORT FOR BOARD

Page: 7/7

Inv Num	Vendor	Inv Date	Due Date	Inv Amt	Amt Due	Status	Jrnalized
Inv Ref#	Description	Entered By					Post Date
GL Distribution							
--- TOTALS BY FUND ---							
	100 - GENERAL FUND			17,890.70	0.00		
	150 - FIRE/AMBULANCE FUND			1,266.02	0.00		
	440 - LIBRARY FUND			3,541.96	0.00		
	610 - WATER UTILITY FUND			6,508.96	0.00		
	620 - SEWER UTILITY FUND			13,580.75	0.00		
--- TOTALS BY DEPT/ACTIVITY ---							
	5160 - VILLAGE HALL			998.88	0.00		
	5211 - POLICE ADMINISTRATION			1,375.76	0.00		
	5221 - FIRE ADMINISTRATION			1,266.02	0.00		
	5254 - DAMS			23.19	0.00		
	5323 - GARAGE			370.99	0.00		
	5342 - STREET LIGHTING			13,932.84	0.00		
	5511 - LIBRARY SERVICES			3,541.96	0.00		
	5512 - MUSEUM			480.30	0.00		
	5521 - PARKS			708.74	0.00		
	6200 - PUMPING OPERATIONS			6,508.96	0.00		
	8010 - WWTP-TREATMENT/DISPOSAL/GP			12,902.98	0.00		
	8020 - LIFT STATIONS/PUMPING EQUIP			677.77	0.00		

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35163 - 35165
Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/10/2022	GEN	35163	CHARLES LETTERMAN	RESTITUTION	100-0000-233000	350.00
10/10/2022	GEN	35164	TREASURER STATE OF WI	COURT FINES AND FEES	100-0000-242400	3,300.94
10/10/2022	GEN	35165	TREASURER WAUKESHA COUNTY	COURT FINES AND FEES	100-0000-243240	872.07
			TOTAL - ALL FUNDS	TOTAL OF 3 CHECKS		4,523.01

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/03/2022	GEN	35094	LAKE COUNTRY MUNICIPAL COURT	KRISPINSKY, ANDREA R F/W, DOB: 05/11/92 C# DZ816QG2VK	100-0000-233200	212.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		212.00

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35095
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/04/2022	GEN	35095	JEFFERSON COUNTY JAIL	VELASCO SALINAS, RICARDO M/W DOB 04211990 SYSTEMID 30520173 NCIC -----	100-0000-233200	681.75
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		681.75

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35096
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/04/2022	GEN	35096	LYNCH CHEVROLET	SQUAD 33 SERVICE	100-5212-539500	1,398.37
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		1,398.37

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/05/2022	GEN	35097	WAUKESHA COUNTY SHERIFFS DEPARTMENT	RAGSDALE, DEVIN P, 04/11/1994 AGENCY CASES 22CT1074	100-0000-233200	310.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		310.00

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User: MROCKLEY			CHECK NUMBER 541					
DB: Mukwonago			Banks: GEN					
Check Date	Bank	Check #	Payee	Description	GL #	Amount		
10/10/2022	GEN	541 (E)	INVOICE CLOUD	INVOICE CLOUD MONTHLY FEES -	100-5142-539900	11.54		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	100-5241-539900	120.00		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	410-5363-539900	67.50		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	610-6902-690300	67.51		
		541 (E)		INVOICE CLOUD MONTHLY FEES -	620-8300-840000	67.50		
							334.05	
TOTAL - ALL FUNDS				TOTAL OF 1 CHECKS		334.05		

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35166
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/10/2022	GEN	35166	OAK CREEK PD	NICHOLAS R DEROUIN M/W DOB05/05/1978	100-0000-233200	98.80
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		98.80

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK NUMBER 35167
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/11/2022	GEN	35167	NORTH CENTRAL LABORATORIES	WWTF LAB SUPPLIES	620-8010-826000	140.13
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		140.13

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/11/2022	GEN	35168	WILLIAMS BAY POLICE DEPT	WILLIAM C BEARDER M/W DOB 030267 CASE# 22-003271	100-0000-233200	248.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		248.00

10/25/2022 04:22 PM				CHECK DISBURSEMENT REPORT FOR MUKWONAGO		Page 1/1	
User: MROCKLEY				CHECK NUMBER 35197			
DB: Mukwonago				Banks: GEN			
Check Date	Bank	Check #	Payee	Description	GL #	Amount	
10/18/2022	GEN	35197	WAUKESHA COUNTY SHERIFFS DEPARTMENT	NOAH BRAUN C#75598	100-0000-233200	360.00	
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		360.00	

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/20/2022	GEN	35258	ENTRANCE SYSTEMS	WATER/WWTF GATE OPENER CONTROLLERS	610-6920-693000	155.00
		35258		WATER/WWTF GATE OPENER CONTROLLERS	620-8010-827000	155.00
						310.00
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		310.00

Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/25/2022	GEN	546 (E)	WI DEPT OF REVENUE QTRLY TAX	WI DEPT OF REVENUE QTRLY TAX	100-5160-539900	26.68
		546 (E)		WI DEPT OF REVENUE QTRLY TAX	100-5521-539900	672.02
		546 (E)		WI DEPT OF REVENUE QTRLY TAX	440-5511-539900	128.97
						827.67
			TOTAL - ALL FUNDS	TOTAL OF 1 CHECKS		827.67

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/12/2022	GEN	35169	MINNESOTA LIFE INSURANCE	NOVEMBER 2022 LIFE INSURANCE	100-0000-215301	1,136.68
		35169		NOVEMBER 2022 LIFE INSURANCE	150-0000-215301	186.73
		35169		NOVEMBER 2022 LIFE INSURANCE	440-0000-215301	128.14
		35169		NOVEMBER 2022 LIFE INSURANCE	610-0000-215301	42.23
		35169		NOVEMBER 2022 LIFE INSURANCE	620-0000-215301	175.09
						1,668.87
10/12/2022	GEN	35170	MISSION SQUARE	RETIREMENT PR 10/14/22 ACCT 305155	100-0000-215250	4,823.29
		35170		RETIREMENT PR 10/14/22 ACCT 305155	150-0000-215250	31.50
		35170		RETIREMENT PR 10/14/22 ACCT 305155	440-0000-215250	679.02
		35170		RETIREMENT PR 10/14/22 ACCT 305155	610-0000-215250	197.95
		35170		RETIREMENT PR 10/14/22 ACCT 305155	620-0000-215250	351.97
						6,083.73
10/12/2022	GEN	35171	SECURIAN FINANCIAL GROUP INC	OCTOBER 2022 ACCIDENT INS	100-0000-215305	14.00
		35171		OCTOBER 2022 ACCIDENT INS	150-0000-215305	2.90
						16.90
10/12/2022	GEN	542 (E)	GREAT WEST RETIREMENT SERVICES	RETIREMENT PR 10/14/22	100-0000-215250	580.00
		542 (E)		RETIREMENT PR 10/14/22	150-0000-215250	665.09
						1,245.09
			TOTAL - ALL FUNDS	TOTAL OF 4 CHECKS		9,014.59

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK DATE FROM 10/26/2022 - 10/26/2022
Banks: GEN

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Check Date	Bank	Check #	Payee	Description	GL #	Amount
10/26/2022	GEN	35259	AFLAC	ACCOUNT# V1553 SUPPLEMENTAL	100-0000-215302	290.16
		35259		ACCOUNT# V1553 SUPPLEMENTAL	150-0000-215302	348.22
		35259		ACCOUNT# V1553 SUPPLEMENTAL	610-0000-215302	11.86
		35259		ACCOUNT# V1553 SUPPLEMENTAL	620-0000-215302	221.52
						871.76
10/26/2022	GEN	35260	MISSION SQUARE	RETIREMENT PR 10/28/22 ACCT 305155	100-0000-215250	4,793.76
		35260		RETIREMENT PR 10/28/22 ACCT 305155	150-0000-215250	18.11
		35260		RETIREMENT PR 10/28/22 ACCT 305155	440-0000-215250	694.72
		35260		RETIREMENT PR 10/28/22 ACCT 305155	500-0000-215250	3.45
		35260		RETIREMENT PR 10/28/22 ACCT 305155	610-0000-215250	189.74
		35260		RETIREMENT PR 10/28/22 ACCT 305155	620-0000-215250	443.78
						6,143.56
10/26/2022	GEN	35261	MUKWONAGO PROFESSIONAL	OCTOBER 2022 FIRE UNION DUES	150-0000-215500	450.00
10/26/2022	GEN	35262	MUKWONAGO PROFESSIONAL POLICE	OCTOBER 2022 POLICE UNION DUES	100-0000-215500	500.00
10/26/2022	GEN	35263	VILLAGE OF MUKWONAGO MRA	OCTOBER 2022 FSA	100-0000-215350	1,630.03
		35263		OCTOBER 2022 FSA	150-0000-215350	341.41
		35263		OCTOBER 2022 FSA	610-0000-215350	9.24
		35263		OCTOBER 2022 FSA	620-0000-215350	148.46
						2,129.14
10/26/2022	GEN	35264	WI SCTF	WI SCTF R&D FEE 2022 - 0004840059	150-0000-215900	65.00
10/26/2022	GEN	547 (E)	DELTA DENTAL OF WISCONSIN	NOVEMBER 2022 DENTAL PREMIUMS	100-0000-215304	389.84
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	150-0000-215304	20.98
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	440-0000-215304	51.72
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	610-0000-215304	9.60
		547 (E)		NOVEMBER 2022 DENTAL PREMIUMS	620-0000-215304	0.16
						472.30
10/26/2022	GEN	548 (E)	DELTA DENTAL OF WISCONSIN	NOVEMBER 2022 VISION PREMIUMS	100-0000-215303	56.32
		548 (E)		NOVEMBER 2022 VISION PREMIUMS	440-0000-215303	35.76

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
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Check Date	Bank	Check #	Payee	Description	GL #	Amount
						92.08
10/26/2022	GEN	549 (E)	EMPLOYEE TRUST FUNDS	NOVEMBER 2022 HEALTH INSURANCE	100-0000-215300	48,250.25
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	150-0000-215300	8,951.45
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	440-0000-215300	6,852.25
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	500-0000-215300	65.39
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	610-0000-215300	3,153.74
		549 (E)		NOVEMBER 2022 HEALTH INSURANCE	620-0000-215300	6,288.86
						73,561.94
10/26/2022	GEN	550 (E)	GREAT WEST RETIREMENT SERVICES	RETIREMENT PR 10/28/22	100-0000-215250	580.00
		550 (E)		RETIREMENT PR 10/28/22	150-0000-215250	730.98
						1,310.98
10/26/2022	GEN	551 (E)	UKG INC.	PAYROLL PROCESSING FEES SEPTEMBER	100-5111-539900	92.75
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5120-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5141-539900	13.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5142-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5145-539900	53.00
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5211-539900	145.75
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5212-539900	172.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5213-521900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5241-539900	26.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5300-539900	132.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	100-5670-521900	13.25
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	150-5221-539900	503.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	440-5511-539900	344.50
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	610-6902-690300	53.00
		551 (E)		PAYROLL PROCESSING FEES SEPTEMBER	620-8300-840000	53.00
						1,682.75
10/26/2022	GEN	552 (E)	WI RETIREMENT SYSTEM	WISCONSIN RETIREMENT CONTRIBUTIONS - SEPTEMBER 2022	100-0000-215200	45,711.62
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	150-0000-215200	14,727.85
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	440-0000-215200	7,174.82
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	500-0000-215200	94.78
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	610-0000-215200	2,983.5^

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CHECK DISBURSEMENT REPORT FOR MUKWONAGO
CHECK DATE FROM 10/26/2022 - 10/26/2022
Banks: GEN

Check Date	Bank	Check #	Payee	Description	GL #	Amount
		552 (E)		WISCONSIN RETIREMENT CONTRIBUTIONS -	620-0000-215200	4,431.40
						75,123.99
			TOTAL - ALL FUNDS	TOTAL OF 12 CHECKS		162,403.50

NOTICE OF PUBLIC HEARING
2023 VILLAGE OF MUKWONAGO BUDGET

On Wednesday, November 16, 2022 at 6:30 p.m., a Public Hearing will be conducted before the Village Board in the Board Room of the Village Hall at 440 River Crest Court, Mukwonago. The purpose of this hearing is to receive citizen input on the 2023 Budget. Immediately following the public hearing the Village Board will meet for the purpose of approving the 2023 tax levy.

The schedule below summarizes the 2023 Budget as it is proposed, which indicate anticipated revenues and expenses as well as display the status of the different funds. A copy of the proposed budget is available for inspection at the Clerk-Treasurer's Office, 440 River Crest Court, during normal business hours, and on the Village website at www.villageofmukwonago.com.

Given under my hand and seal, this 28th day of October, 2022 in and for the Village of Mukwonago, Waukesha & Walworth Counties.

Diana A Dykstra, MMC
Village Clerk-Treasurer

GENERAL FUND	Estimated			Total 2022	Adopted	Proposed	% Change
	Actual 2021	Actual Thru 6/30/2022	Balance for 2022		2022 Budget	2023 Budget	
Revenues							
Taxes	2,939,882	2,531,578	474,811	3,006,389	3,006,389	3,208,321	
Other Taxes	441,310	201,056	239,573	440,629	436,463	440,234	
Intergovernmental Revenues	810,730	308,143	530,710	838,853	847,509	854,295	
Licenses & Permits	419,615	229,410	202,442	431,852	446,937	451,537	
Forfeitures and Penalties	159,347	94,223	68,042	162,265	173,000	173,000	
Public Charges for Services	38,245	15,667	11,435	27,102	30,488	30,488	
Leisure Activities	77,247	19,305	60,170	79,475	72,000	72,000	
Intergovernmental Charges	177,498	134,913	96,359	231,272	200,201	202,833	
Investments	11,446	17,036	50,744	67,780	11,300	68,000	
Other Revenues	26,905	11,656	16,743	28,399	25,750	28,500	
Other Financing Sources	-	-	-	-	63,944	300,229	
Total Revenues	5,102,225	3,562,987	1,751,029	5,314,016	5,313,981	5,829,437	9.70%
Expenditures							
General Government	780,469	406,092	542,957	949,049	989,886	1,030,177	
Public Safety	2,664,756	1,283,920	1,487,831	2,771,751	2,836,317	2,982,054	
Health & Human Services	2,420	-	2,500	2,500	2,550	2,600	
Public Works	905,354	434,042	495,518	929,560	1,015,946	1,004,211	
Culture and Recreation	178,587	102,544	114,876	217,420	208,271	216,577	
Conservation & Development	175,360	83,647	94,852	178,499	206,006	250,339	
Storm Water	8,666	3,266	7,734	11,000	11,500	11,250	
Other Financing Uses	5,400	-	-	-	43,505	332,229	
Total Expenditures	4,721,012	2,313,511	2,746,268	5,059,779	5,313,981	5,829,437	9.70%
Fund Balance, January 1	2,269,834			2,651,050		2,905,287	
Fund Balance, December 31	2,651,050			2,905,287		2,605,058	

Budget Summary by Fund	Total Estimated YE 2022	Expendi- tures	Total 2023	Use of	Total 2023	Fund Balance	Fund Balance
	Revenues		Revenues	Fund Balance	Expendi- tures	Jan. 1, 2023	Dec. 31, 2023
General Fund	5,314,016	5,059,779	5,529,208	300,229	5,829,437	2,905,287	2,605,058
Fire/Ambulance Fund**	1,474,144	1,494,672	1,571,199	48,173	1,619,372	122,268	74,095
Community Development	7,000	460,000	578,652	17,100	595,752	1,132,915	1,115,815
Wisconsin Development	1,500	-	-	130,312	130,312	139,734	9,422
TID #3	917,948	1,036,958	912,858	256,854	1,169,712	790,474	533,620
TID #4	278,303	161,337	352,652	-	352,652	206,425	206,425
TID #5	4,877,368	5,574,098	2,558,708	681,781	3,240,489	2,416,154	1,734,373
Debt Service Fund	2,733,532	2,722,236	3,001,047	181,654	3,182,701	628,868	447,214
Fire/Ambulance Designated Fund	1,435	140,000	700	-	700	166,037	166,037
Village Designated Fund	143,920	14,566	125,000	-	125,000	677,717	677,717
American Rescue Plan Act	2,979	-	3,000	-	3,000	3,137	3,137
Recycling	590,422	597,393	623,337	-	623,338	121,095	121,094
Capital Equipment	428,346	683,020	607,346	-	648,500	291,285	250,131
Library Services	1,114,540	1,075,616	1,111,626	-	1,111,626	310,550	310,550
Capital Improvements	150,510	1,327,628	1,751,618	15,000	1,766,618	2,324,474	2,309,474
Storm Water Fund	33,462	18,607	33,035	-	34,909	34,909	33,035
Impact Fee	118,140	150,000	133,000	117,000	250,000	349,497	232,497
Parkland Site	19,964	36	2,125	-	2,125	238,054	238,054
TOTALS	18,207,529	20,515,946	18,895,111	1,748,103	20,686,243	12,858,880	11,067,748

Tax Levy Summary	If Fire Department Referendum Passes				If Fire Department Referendum Passes		
	2022 Levied	2023 Proposed	Percent Change		2022 Levied	2023 Proposed	Percent Change
General Fund	3,006,389	3,208,321	6.72%		3,006,389	3,208,321	6.72%
Fire/Ambulance Fund**	194,835	198,732	2.00%	**	194,835	605,081	210.56%
Debt Service Fund	2,521,365	2,732,701	8.38%		2,521,365	2,732,701	8.38%
Recycling	331,348	337,975	2.00%		331,348	337,975	2.00%
Capital Equipment	94,146	-	-100.00%		94,146	-	-100.00%
Library Services	474,105	518,315	9.32%		474,105	518,315	9.32%
Total	6,622,188	6,996,044	5.65%		6,622,188	7,402,393	11.78%

**If the proposed Fire Department Referendum passes on November 8th to exceed the levy limit by \$406,349 for additional staffing, the Fire Departments 2023 budget as proposed would increase by the referendum amount



Agenda Cover Report

Date: 11/2/22	Committee/Board: Health and Recreation Committee
Submitted by: Ron Bittner	Department: Public Works
Date of Committee Action: N/A	Date of Village Board Action: N/A

Subject: Indian Head Park Pedestrian RR Crossing Update
Executive Summary: In April of 2022 the Office of the RR Commissioner notified the village of an illegal crossing in Indian Head Park. Public Works petitioned for the crossing and submitted the required paperwork. A public hearing was held on September 12, 2022. The ORC issued a final decision for docket 9140-RX-4, approving the crossing with the condition that all improvement be completed before December 31, 2023.
Fiscal Impact: Public Works is working on cost estimate for the crossing.
Executive Recommendation/Action: N/A Information Only

☐ Attachments Included

OFFICE OF THE COMMISSIONER OF RAILROADS**STATE OF WISCONSIN**

Petition of the Village of Mukwonago for the Establishment of a
Pedestrian Public Crossing of the East Troy Electric Railroad Tracks
with Indianhead Park in the Village of Mukwonago, Waukesha County

9140-RX-4

FINAL DECISION

This is the Final Decision in the Class 1 proceeding by the Office of the Commissioner of Railroads (Office) on the June 30, 2022, petition by the Village of Mukwonago (Mukwonago) to establish a new at-grade public crossing of the East Troy Electric Railroad (ETER) tracks at Indianhead Park in the village of Mukwonago.¹

The petition, under [Wis. Stat. §§ 195.28](#) and [195.29](#) (2019-20),² is GRANTED subject to conditions.

Introduction

The ETER tracks at Indianhead Park contain two unauthorized gravel crossings, one each for vehicles and pedestrians. Mukwonago has agreed to remove the vehicle crossing and upgrade the pedestrian crossing to an ADA-accessible concrete crossing with passive signage.

The Office held a GoTo public hearing³ on this matter on September 13, 2022, where witnesses offered testimony and exhibits on behalf of the parties. No member of the public participated in the hearing or filed written comments through the Office's website during the open comment period through September 12, 2022. The parties, for the purposes of review under [Wis. Stat. §§ 227.47](#) and [227.53](#), are listed in Appendix A.⁴

¹ [PSC REF#: 441679](#).

² All references to the Wisconsin Statutes are to the 2019-20 version unless otherwise noted.

³ Notice of Hearing, [PSC REF#: 446181](#).

⁴ This docket is uncontested; a Proposed Final Decision is unnecessary.

Findings of Fact

1. The East Troy Railroad Museum is a 501(c)(3) nonprofit educational corporation owning, maintaining and operating historic electric trolley and interurban railroad cars between Mukwonago and East Troy on the last remnant on the former track of The Milwaukee Electric Railway & Light Company completed in 1907.

2. The ETER provides regular operation and special event trains Fridays, Saturdays, and Sundays during April to December between Indianhead Park and the East Troy Depot.

3. Establishing the at-grade crossing at Indianhead Park in accordance with Mukwonago's design plans will promote public safety by providing a safe, authorized public crossing of the ETER double tracks within the village park.

4. Establishing the crossing is advisable under all the circumstances.

5. In order to adequately protect and promote public safety, it is reasonable to install and maintain reflective crossbucks, a Yield sign, and two-tracks plaque.

6. It is reasonable for Mukwonago to fund the entire cost of the crossing.

Conclusions of Law

1. The ETER is a railroad historical society as defined in Wis. Stat. § 195.001(2m).

2. The Office has authority under Wis. Stat. § 189.02; Wis. Stat. §§ 195.03, 195.04, 195.06, 195.28, 195.285, 195.29, 195.30; Wis. Stat. § 227.47(1); and Wis. Admin. Code § RR 1.15 to issue this final decision authorizing the proposed project.

Opinion

New grade crossings should not be permitted unless no other viable alternatives exist. In doing so, consideration should be given to closing one or more existing crossings.⁵ More than four crossings per mile with fewer than 2,000 vehicles per day and more than two trains per day are prime candidates for closure.⁶ Given the limited track length and special nature of the train service provided, however, there are no candidates for closure.

The proposed crossing promotes public safety by closing an unauthorized gravel vehicular crossing and reconstructing the existing gravel pedestrian crossing as a safe, ADA-accessible cement panel crossing. There exists an authorized pedestrian sidewalk crossing of the ETER double tracks 330 feet east of the proposed crossing and a sidewalk single-track crossing 240 feet to the west. The east crossing provides sidewalk access to a pedestrian bridge over the lake. However, using the east crossing would require pedestrians to make about a 1,000-foot round-trip to use the east crossing and about half that distance to use the west crossing.

Sight Distance

For adequate clearing sight distance, a pedestrian stopped 10 feet short of the near rail needs 132 feet of clear sight lines along both directions of the tracks, and while walking at three feet/second, clear the tracks before a train traveling at 10 mph arrives at the crossing. The clearing sight distance is adequate in all quadrants.

⁵ RAILROAD-HIGHWAY GRADE CROSSING HANDBOOK 3rd Ed (FHWA 2019) at 34 (Crossing Handbook) - available at [Highway-Rail Crossing Handbook \(3rd Edition\) \(dot.gov\)](https://www.fhwa.dot.gov/publications/2019/01/01/railroad-highway-grade-crossing-handbook-3rd-edition/)

⁶ *Id.* at 14.

Warning Devices

Railroad crossing (crossbucks) (R15-1) and Yield (R1-2) signs are required at each approach to a passive railroad-highway grade crossing. The placement and maintenance of the signs is normally the responsibility of the railroad. Wis. Stat. § 192.29(5). The railroad proposes crossbucks and yield signs and 2-tracks (R15-2P) plaque for both approaches.

A railroad advance warning (W10-1) sign is required on each approach to a grade crossing, with some exceptions. In this case, physical conditions do not permit even a partially effective display of the sign. Thus, use of the sign is an exception to the Manual of Uniform Traffic Control Devices (MUTCD), § 8B.06.01.D.

Order

1. The **ETER** shall install and maintain an at-grade crossing of its tracks at Indianhead Park in accordance with current standards and approved design plans in the village of Mukwonago, Waukesha County, by **December 31, 2023**.
2. The proposed crossing shall not be open for public travel until the warning devices and signage ordered herein are placed in service.
3. The **ETER** shall install and maintain reflective shared-use path sized crossbuck (R15-1) signs (24 in. x 4.5 in.) and Yield (R1-2) signs (18 in.), and two-tracks plaque (R15-2P) with placement in accordance with the MUTCD, § 8D.03, on each approach to the crossing of its tracks at Indianhead Park by **December 31, 2023**.
4. The **Village of Mukwonago** shall be responsible for all costs associated with the construction of the new crossing.

5. The **ETER** shall be responsible for the costs of the warning devices but not responsible for any costs associated with construction of the new crossing.

6. The **ETER** shall process U.S. DOT Crossing Inventory Form FRA F 6180.71 no later than 90 days after placing the crossing in service.

7. Notwithstanding any other cost apportionment in this order, the **ETER** shall bear any cost assessed under Wis. Stat. § 195.60 for the investigation of this matter by the Office and shall not pass on those assessment costs directly or indirectly.

8. This Final Decision is effective one day after service.

9. Jurisdiction is retained.

A handwritten signature in black ink, reading "Yash P. Wadhwa". The signature is fluid and cursive, with the first name "Yash" and last name "Wadhwa" clearly legible.

Yash P. Wadhwa, P.E.
Commissioner of Railroads

DA/ss:DL:01907160

See attached Notice of Rights

OFFICE OF THE COMMISSIONER OF RAILROADS
4822 Madison Yards Way
P.O. Box 7854
Madison, Wisconsin 53707-7854

**NOTICE OF RIGHTS FOR REHEARING OR JUDICIAL REVIEW, THE TIMES
ALLOWED FOR EACH, AND THE IDENTIFICATION OF THE PARTY TO BE
NAMED AS RESPONDENT**

The following notice is served on you as part of the Commissioner's written decision. This general notice is for the purpose of ensuring compliance with Wis. Stat. § 227.48(2), and does not constitute a conclusion or admission that any particular party or person is necessarily aggrieved or that any particular decision or order is final or judicially reviewable.

PETITION FOR REHEARING

If this decision is an order following a contested case proceeding as defined in Wis. Stat. § 227.01(3), a person aggrieved by the decision has a right to petition the Office of the Commissioner of Railroads (Office) for rehearing within 20 days of the date of service of this decision. Wis. Stat. § 227.49. The date of service is shown on the first page. The petition for rehearing must be filed with the Office and served on the parties. The filing of a petition for rehearing does not suspend or delay the order's effective date. Wis. Stat. § 227.49(2). An appeal of this decision may also be taken directly to circuit court through the filing of a petition for judicial review. It is not necessary to first petition for rehearing.

PETITION FOR JUDICIAL REVIEW

A person aggrieved by this decision has a right to petition for judicial review as provided in Wis. Stat. § 227.53. The petition must be filed in circuit court and served upon the Commissioner by personal service or certified mail within 30 days of the date of service of this decision if there has been no petition for rehearing. If a timely petition for rehearing has been filed, the petition for judicial review must be filed within 30 days of the date of service of the order finally disposing of the petition for rehearing, or within 30 days after the final disposition of the petition for rehearing by operation of law pursuant to Wis. Stat. § 227.49(5), whichever is sooner. If an *untimely* petition for rehearing is filed, the 30-day period to petition for judicial review commences the date the Office serves its original decision.¹ The Office must be named as respondent in the petition for judicial review.

If this decision is an order denying rehearing, a person aggrieved who wishes to appeal must seek judicial review rather than rehearing. A second petition for rehearing is not permitted.

Revised: March 27, 2018

¹ See *Currier v. Wisconsin Dept. of Revenue*, 2006 WI App 12, 288 Wis. 2d 693, 709 N.W.2d 520.

Appendix A

OFFICE OF THE COMMISSIONER OF RAILROADS

(Not a party but must be served per Wis. Stat. § 227.53)

4822 MADISON YARDS WAY

P.O. BOX 7854

MADISON, WISCONSIN 53707-7854

VILLAGE OF MUKWONAGO

RONALD BITTNER

PUBLIC WORKS DIRECTOR

630 EAST VETERANS WAY

MUKWONAGO, WISCONSIN 53149

rbittner@villageofmukwonago.com

EAST TROY ELECTRIC RAILROAD

ATTY. A. WILLIAM FINKE

2002 CHURCH STREET

EAST TROY, WISCONSIN 53120

bill.finke@wi.rr.com



440 River Crest Ct | Mukwonago, WI 53149 | Tel: 262.363.6420 | Fax: 262-363-6425

Agenda Item Cover Report

Date:	Committee/Board:
Submitted by:	Department:
Date of Committee Action:	Date of Village Board Action:

Subject:
Executive Summary:
Fiscal Impact:
Executive Recommendation/Action:

☐ Attachments Included

**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

ORDINANCE NO. XXXX

**ORDINANCE TO AMEND CHAPTER 2 ADMINISTRATION, ARTICLE II VILLAGE
BOARD REGARDING MEETING TIME OF THE VILLAGE BOARD**

The Village Board of the Village of Mukwonago do ordain as follows:

SECTION I

Section 2-26, Meetings, of Chapter 2 ADMINISTRATION, ARTICLE II VILLAGE BOARD of the Municipal Code of the Village of Mukwonago is hereby Amended as follows:

- (a) Regular. Regular meetings of the Village Board shall be held on the third ~~Tuesday~~ Wednesday of each calendar month at 6:30 p.m. Any regular meeting falling on a legal holiday recognized as such in the state shall be held on the succeeding Thursday at the same hour and place or at the next regularly scheduled meeting.

SECTION II

All Ordinances or parts of Ordinances contravening the terms and conditions of this Ordinance are hereby to that extent repealed.

SECTION III

This Ordinance shall take effect upon passage and publication as approved by law, and the Village Clerk shall so amend the Code of Ordinances of the Village of Mukwonago, and shall indicate the date and number of this amending ordinance therein.

PASSED AND ADOPTED by the Village Board this 16th day of November, 2022.

APPROVED:

Fred Winchowky, Village President

Attest:

Diana Dykstra, Village Clerk/Treasurer

**VILLAGE OF MUKWONAGO
WAUKESHA AND WALWORTH COUNTIES**

ORDINANCE NO. XXXX

**ORDINANCE TO AMEND CHAPTER 2 ADMINISTRATION ARTICLE II VILLAGE
BOARD SECTION 2-34 COMMITTEE OF THE WHOLE
REGARDING MEETING TIME**

The Village Board of the Village of Mukwonago do ordain as follows:

SECTION I

Section 2-34, Committee of the Whole, of Article 2 VILLAGE BOARD of the Municipal Code of the Village of Mukwonago is hereby Amended as follows:

- (a) Standing committee, appointments and jurisdiction. A committee of the whole is hereby established as a standing committee. All members of the Village Board shall be members of this committee with the Village President serving as chair. At the first regular board meeting following the spring election, the Village President shall designate Trustees as committee of the whole sub-committee chairpersons. Sub-committee chairs will serve as chairs for their particular sections of the agenda. This committee shall meet on the first ~~Tuesday~~ Wednesday of the month at 5:30 p.m. ~~The committee shall have the discretion hold a meeting the succeeding day or a different day to discuss or consider any items on the agenda that were not discussed at the original meeting.~~ Any regular meeting falling on a legal holiday recognized as such in the state shall be held on the succeeding Thursday at the same hour and place or at the next regularly scheduled meeting. The sub-committees within the committee of the whole are as follows:

SECTION II

All Ordinances or parts of Ordinances contravening the terms and conditions of this Ordinance are hereby to that extent repealed.

SECTION III

This Ordinance shall take effect upon passage and publication as approved by law, and the Village Clerk shall so amend the Code of Ordinances of the Village of Mukwonago, and shall indicate the date and number of this amending ordinance therein.

PASSED AND ADOPTED by the Village Board this 16th day of November, 2022.

APPROVED:

Fred Winchowky, Village President

Attest:

Diana Dykstra, Village Clerk/Treasurer

Library Director Report: October 2022

Director Meetings and Activities

We held our Staff Development Day on October 7. Assistant Chief Chris DeMotto conducted active shooter training for the whole staff and afterward we walked around the Library to identify needs and make plans. Just like after the fire safety training in May, I have invited my staff to suggest updates to policies or suggest equipment to purchase in light of our trainings. We also held a session on First Amendment Audits and reviewed our Public Behavior Policy. It's extremely hard to not only get the entire staff together for training but to do it while serving the public 62 hours a week, so the staff and I thank the Library Board for providing closure days so we can focus on this incredibly important training.

I was invited to participate in the Superintendent Focus Group by the school district. At the end of the school year Superintendent Shawn McNulty will be retiring and the district is inviting community feedback on hiring his replacement. I was able to voice my preference for the new hire to be library-friendly and pointed out that, by state statute, a member of the school district must be on the public Library Board, so I want to work with someone such as Shawn who values libraries and librarians.

The Smiota smartlockers are finally in stock and I'm actively working on getting them installed sometime in the next month. These smartlockers are purchased through a grant we were a part of in the spring; Waukesha and we will be the only libraries in Bridges to have smartlockers. Currently I'm working with DPW to get a concrete slab poured. I'm working with Emily, our Circulation Supervisor, to develop procedures for using the lockers. And I'm working with Mellanie Mercier at Bridges to set up the data integration with Polaris. I want to develop the training and procedures ahead of time, so once the lockers are physically installed, we are ready to use them. We will also be the first library in the system to get these lockers, so I'm working hard to develop documentation and procedures now not only for my team, but for other libraries to use when they deploy the lockers.

We are still working on getting the new phones installed. John Wisnewski, the IT consultant hired by the Village, is sorting out an adapter for our PA system, but Matthew Rockley has the system infrastructure built and I have recorded all the voice messages. We are waiting on the phone numbers to port and, when that is scheduled, we will have a date when the phones will physically get swapped out. There will be minor interruptions in service on that day, so the communications teams is ready with graphics for social media and the website to warn the community as much ahead of time as the phone company gives us. Ideally, we will be on the new phone system by mid-October.

Circulation (Emily Ceithamer)

For the month of September, we had two new additions to the circulation team! We have added Maria and Lori to our roster, and everyone is excited to have them joining our team at circ. As of the last day of the month they completed their second week of training. I attended the circulation supervisor meeting for Bridges at the Delafield Library on September 21. It was

great meeting other circulation supervisors in person as most I had only had email correspondence before that day. We had a lot to talk about during those two hours and one of the main focal points was standardization across Bridges. I, as well as a couple others, signed up for a subcommittee to help tackle this. We are going to look at what forms we are using to make everything more uniform. I'm looking forward to working on this project! Looking to the month ahead, I am attending a circulation conference on October 3 and 4, so my next report will have more to come about what I've learned there!

Children's Department (Jane DeAngelis)

As autumn settles in, we look forward to some haunted happenings at the library. There will be "Boo on the Bus" for the little ones--a special Halloween family storytime--followed by trick or treating in the library. The Library will be part of Mukwonago's Business Trick or Treat where there will be seven stations throughout the library for families to visit with candy and non-candy treats options. The Library will offer another Beanstack reading challenge called "HallowRead Spooktacular" for a chance to win a \$50 gift card to the Elegant Farmer.

In addition to Family Storytime, Discovery Time, and Paws to Read there will be an unboxing of brand-new graphic novels for school-age kids. Kids can also enjoy Candy Corn In-Library Scavenger Hunt and earn a free book from the Childrens' Prize Book Collection. Plus, there will be a Franken-Who Name That Children's Book Character contest where one lucky person will win a scary SquishMallow.

Reference and Adult Services (Chris Stape)

Our biggest event in September was the "Treasures From the Vault" presentation from the Wisconsin Museum of Quilting and Fiber Arts. It was well attended and the speaker and several attendees wound up staying and talking about quilting almost until closing time. We received lots of positive comments afterward. Adult Bingo continues to draw a good crowd and we've been getting new folks, too. Once again, the Spice of the Month Club grew a little. We gave out about 70 kits. Several things coming up next month including the start of our Financial Wellness series in partnership with Educator's Credit Union, a murder mystery event with author Rod Vick, and closer to Halloween, a presentation about Edgar Allen Poe.

Technical Services and Thingery (Mary Jo Isely)

453 new items were processed and catalogued in September. The following item was added to the Thingery:

- GAMES now has a portable Disc Golf Target for checkout
- Document Camera

Upcoming adds will be jumper cables and a multi-purpose air inflator. The Nintendo Switch games are now in circulation. Huge response, we have 25 titles at the present time, the last time checked, 4 games were available for checkout. 21 were checked out. Shifted a portion of Adult Fiction and continue weeding.

MetaSpace 511 & Technology (Nancy Aycok)

New changes and programs have been implemented in MetaSpace 511 during September. Open Maker Hours have been added so patrons ages 13 through adult have regular drop-in hours to come use equipment and work on projects in the makerspace. Patrons also come in during Open Maker Hours for tours to learn more about the makerspace. Teen Maker Time, Kids Who Code, STEAM Design Lab, Maker Nights, and Family Maker Night have all been added to the fall lineup in MetaSpace 511 providing programs for all ages.

The new MetaSpace 511 laptops have been a huge benefit for classes and in providing opportunities for several patrons to work on designs at the same time. E&D's Creative Grain in Mukwonago gave a generous donation of handmade wood phone stands for patrons to learn laser engraving. LEGO Club returned as a drop-in, no registration program with 25 kids and 12 adults attending with more adults waiting in the Children's area. Family Maker Night: Print Shop was a big hit with families coming in to use the Provisional Printing Presses to do printmaking with flat LEGO tiles. The printing presses were purchased with funds from the Bridges Competitive Grant.

While starting out strong with many weekly Open Maker Hours it was discovered that due to staffing hours, administrative duties, and program planning it's not sustainable to have as many Open Maker Hours as attempted in September. There will be regular yet limited Open Maker Hours in October through December, appointments will still be offered. Patrons are looking forward to utilizing Open Maker Hours to work on projects especially during the upcoming holidays.



Maker Night: Laser Engraving Phone Stands using new laptops



New intern Jack leading LEGO Club: Bridge Building Challenge

Community Engagement Coordinator (Eric Huemmer)

September turned out to be busier than expected! Cooler weather didn't slow us down from attending events throughout the community, including The Garden Mart's "Garden Gala" event, an opportunity to reach people we might not normally see in the Library. While not the greatest turnout, the event brought visibility and supported one of our SLP sponsors.

The Village of Mukwonago has also turned to us as a community partner to promote the “I Voted” Sticker Design Contest. We are excited to help the Village with their mission of getting people excited about their democratic right to vote and are honored they thought of us to help them spread their message. This contest will go throughout October and include opportunities for adults and youth to participate in designing next year’s “I Voted” stickers handed out to Village of Mukwonago voters.

Events

Eric attended a Library Memory Project Symposium, an all-day seminar on how to better serve patrons with Alzheimer’s, dementia, or other memory issues, planning Memory Cafés programming, and how to better supplement your collection. This will come in handy with our monthly Memory Café programs and our monthly pop-up Library at Linden Grove.

We’re still in the planning stages for multiple events coming up at the end of the year. The Jack-O-Lantern Jaunt (October 14-15) partners with the Mukwonago Rotary and other businesses for a two-day event, where we are coordinating the Free Community Art Project. We’re partnering with the Mukwonago Chamber to be a Business Trick-or-Treat stop (October 28), and finally we’ve begun planning the Annual Holiday Tree Lighting (November 30) and adding a NEW Sensory Friendly Tree Lighting (December 1) in conjunction with the Autism Society of Southeastern Wisconsin to provide options for differently abled kiddos to participate in this seasonal event, too.

Programming

Teen D&D and Teen Advisory Board continues to grow, with both groups hitting record numbers since their inception. We’ll be working with the teens to get them more involved with decorating the Young Adult Area and participating in our upcoming Trick-or-Treat event in October. Terry’s programming continues to stay popular as well, and she’s looking forward to celebrating her fourth year of Zentangle this month.

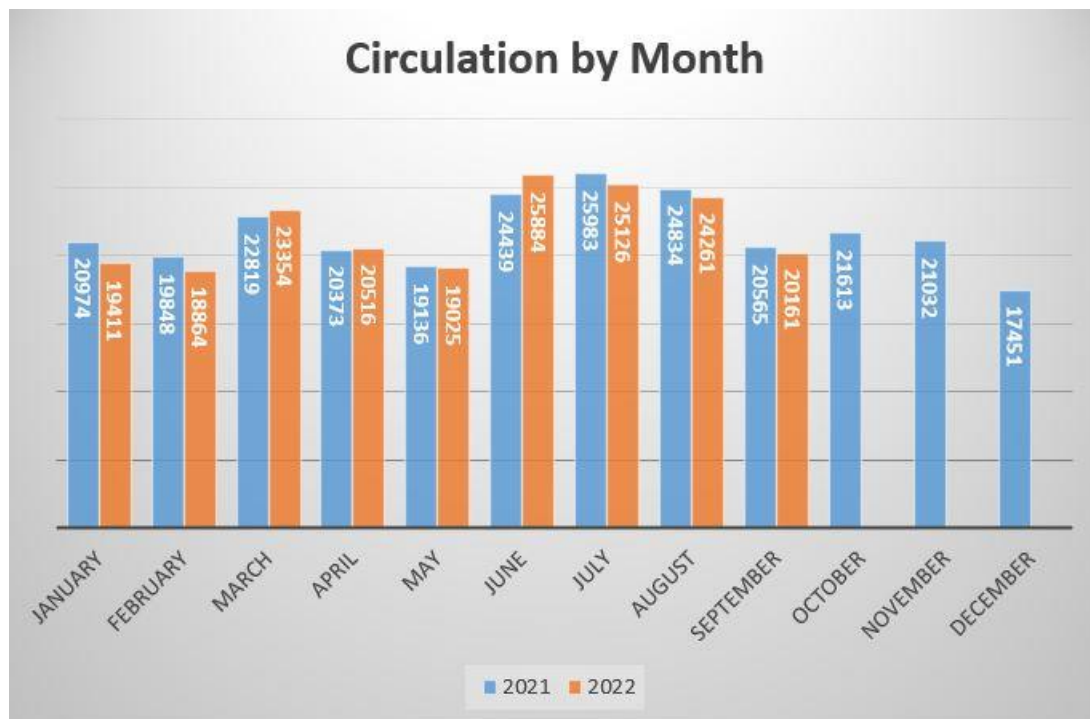
Statistics (see next page)

Mukwonago Community Library

STATISTICS SEPTEMBER 2022

Circulation					Programming			
Bridges Library System	2022	2021	% to 2021	YR to Date	Type	General	Kids	Teens
Village of Mukwonago	6,402	5,857	9%	56,240	Friday Flicks	79		
Town of Mukwonago	5,365	5,704	-6%	55,904	Book Clubs	24		
Eagle	910	1,051	-13%	9,522	Bingo	43		
Genesee	787	567	39%	6,825	Other Adult Programs	99		
North Prairie	998	1,090	-8%	10,172	Bubble Boogie		181	
Vernon	1,809	1,840	-2%	18,400	Storytimes		159	
All other Waukesha County	881	1,322	-33%	9,903	Other Kids Programs		127	
Jefferson County	148	102	45%	1,439	Reading Challenge		51	
Subtotal Bridges System	17,300	17,533	-1%	168,405	STEAM Design Lab		9	
Other Wisconsin Counties				-	Lego Club		37	
Milwaukee County	34	30	13%	699	Maker Night & Tours	89		5
Racine County	203	313	-35%	2,346	Teen Advisory			9
Walworth County	2,600	2,661	-2%	24,758	Teen D & D			18
All other Wisconsin Counties	24	28	-14%	393	Totals 930	334	564	32
Subtotal Wisconsin Counties	2,861	3,032	-6%	28,196	Total Childrens Programs	20		
Total All Counties	20,161	20,565	-2%	196,601	Total YA Programs	5		
YTD ALL COUNTIES	196,601	198,971	-1%		Total General Programs	33		
Facility Usage				Subscription Databases & Other Highlights				
	This Year	Last Year	Increase/ Decrease			This Year	Last Year	/ Decrease
Study Room Users	87	79	10.1%	Flipster (System Wide)		1705	3803	-55.2%
History Room Users	75	10	650.0%	Overdrive Circulation (Mukwonago)		3037	2656	14.3%
Community Room Use	240	NA		Gale Courses Verified (System Wide)		84	94	-10.6%
Patron Visits	8,598	7,018	22.5%	Interlibrary Loans Borrower		11	8	37.5%
Curbside Pick Ups	12	16	-25.0%	Interlibrary Loans Lender		20	23	-13.0%
				New Items Added		453	355	27.6%
				New Cards Added		75	74	1.4%

Circulation by Month



PATRON VISITS



Mukwonago Community Library									
Time Study									
Sept 2022									
Row Labels	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Grand Total		
8AM-9AM	6	3	6	8	4		27		
9AM-10AM	219	200	219	257	248	161	1304		
10AM-11AM	179	373	248	269	287	364	1720		Top 10
11AM-12PM	312	320	188	361	377	289	1847		Above Average
12PM-1PM	89	181	149	214	205	273	1111		Below Average
1PM-2PM	86	131	100	211	223	274	1025		Bottom 10
2PM-3PM	194	254	120	276	265	156	1265		
3PM-4PM	152	351	264	183	235	197	1382		
4PM-5PM	245	350	214	280	249	15	1353		
5PM-6PM	241	337	339	281	348		1546		
6PM-7PM	160	209	213	315			897	Average	201.7285714
7PM-8PM	184	179	77	143			583	Median	213.5
8PM-9PM	15	11	23	12			61	Max	377
Grand Total	2082	2899	2160	2810	2441	1729	14121		



Agenda Item Cover Report

Date: 10/25/2022	Committee/Board: Public Works
Submitted by: Wayne Castle	Department: Utilities- Water
Date of Committee Action: 11/02/2022	Date of Village Board Action: 11/16/2022

Subject:

Well Nos. 3 and 4 HMO Treatment Predesign Study

Executive Summary:

This Task Order is to conduct a predesign study to answer specific questions needed for the detailed design. The results of this study will be the foundation of the detailed design for the project taking place in the second half of 2023 and the first half of 2024. The study findings will be documented in a letter report. The study will also identify estimated project costs.

R/M will submit and receive WDNR approval of this study report. By having WDNR approval of the project predesign, it will facilitate the detailed design approval required by them in summer/fall of 2024. We anticipate public bidding to take place immediately after WDNR approval of the detailed design with a contract in place with the construction contractor by the end of 2024. Construction of the project would start in early spring 2025 and extend into 2026.

Fiscal Impact:

\$38,385 through ARPA funds

Executive Recommendation/Action:

Committee recommendation to Village Board for Approval

Attachments Included

- Task Order 2022-11
- “Water Supply and Wastewater Treatment System Capacity Analysis” report, May of 2021.
- Wells 3 and 4 Radionuclide Removal Analysis Memorandum dated November 19, 2021.

TASK ORDER

This is Task Order No. 2022-11,
consisting of 3 pages
Village of Mukwonago
*Well Nos. 3 and 4 HMO
Treatment Predesign Study*

Task Order

In accordance with the Agreement Amendment between Village of Mukwonago (Owner) and Ruekert-Mielke, Inc. (Engineer) dated February 20, 2019, Owner and Engineer agree as follows:

1. Specific Project Data

- A. Title: Well Nos. 3 and 4 HMO Treatment Predesign Study
- B. Description: The Village presently has a deficiency in its available water supply. This is documented in the past report entitled "Water Supply and Wastewater Treatment System Capacity Analysis" finalized in May of 2021. The recommendation of this report is for the Village to provide radionuclide removal treatment for Well Nos. 3 and 4 instead of relying on blending with Well 5 and 6 which has been the existing practice. With the blending arrangement, the output capacity of the system is hindered. Significant water supply expansion is possible with radionuclide removal of Wells 3 and 4 at Well 4. The capacity expansion will eliminate the present deficit and position the Village for future growth.

Previous studies have determined that the hydrous manganese dioxide (HMO) treatment and filtration is the most cost-effective treatment method to remove radionuclides from Well Nos. 3 and 4. A pilot study is currently in place to determine the exact filter loading rate for this system. This filter loading rate resulting from the pilot study will be used as a basis for the detailed treatment system design.

With this treatment arrangement, there are many aspects to consider before detailed design and accurate cost estimating can take place. Considerations include, but are not limited to:

1. Should the existing blending system remain in place as a backup redundant system to radionuclide treatment for Well Nos. 3 and 4? Will the Wisconsin Department of Natural Resources (WDNR) allow the blending system to remain in place?
2. What are the hydraulic impacts of Well No. 3 pumping to Well No. 4 instead of to the system through the elevated storage tank at the site?
3. Should disinfection remain at Well No. 3 or should the disinfection system at Well No. 4 be expanded.
4. To what extent should the reservoir at Well No. 4 be expanded?
5. What is the optimal HMO system sizing at Well No. 4? Should the HMO system be sized for both well pumps operating at full capacity? Are there space constraints in the existing garage at Well No. 4 where the HMO treatment system is anticipated to be located?
6. How many additional booster pumps are required at Well No. 4? What are the hydraulic supply system impacts of more water being supplied to the system at Well No. 4 instead through Well Nos. 4 and Well No. 3?
7. What is the best way to provide booster pump flow metering at Well No. 4 with the building constraints?
8. Does the project budget allow for a new garage at Well No. 4?
9. What other building updates (e.g., painting, flooring, etc.) should be completed at Well No. 4?

This Task Order is to conduct a predesign study to answer these questions and more. The results of this study will be the foundation of the detailed design for the project taking place in the second half of 2023 and the first half of 2024. The study findings will be documented in a letter report. The study will also identify estimated project costs.

TASK ORDER

We will submit and receive WDNR approval of this study report. By having WDNR approval of the project predesign, it will facilitate the detailed design approval required by them in summer/fall of 2024. We anticipate public bidding to take place immediately after WDNR approval of the detailed design with a contract in place with the construction contractor by the end of 2024. Construction of the project would start in early spring 2025 and extend into 2026.

2. Services of Engineer

Our detailed scope of services is shown below:

Well No. 3	
1	Identify capacity of existing well pump when discharging to Well No. 4 while estimating head loss from a filtration system. Identify modifications to well pump if necessary. Use model if necessary.
2	Determine plan for mixer vault and associated piping. Coordinate with WDNR if they would allow the mixing vault to remain with the new HMO treatment system.
3	Coordinate sampling and testing for potential asbestos containing materials for existing ceiling materials.
4	Determine whether or not to keep disinfection equipment at the station. Coordinate with WDNR.
5	Identify additional improvements (electrical, architectural) and prepare preliminary cost estimate for all improvements at Well No. 3.
Well No. 4	
6	Determine extent of reservoir expansion.
7	Determine optimal sizing of HMO system based on pilot study results. Alternatives are sizing both wells at full speed, or both wells at reduced speed. Consider costs and space available in existing garage area to be repurposed to HMO Treatment Room. Prepare preliminary plan drawing of selected alternative.
8	Evaluate capacity of exiting sanitary sewer for discharge of backwash waste. Determine preliminary size of backwash equalization tank if necessary.
9	Determine optimal booster pump capacity. Determine the need for one or two additional booster pumps.- Conduct hydraulic modeling to identify changes to the water distribution system.
10	Determine if existing standby generator is large enough to handle loads from proposed improvements. Determine cost difference between locating a generator in a new building or addition, or outdoors. Review costs with Village.
11	Prepare preliminary sizing and develop preliminary cost estimate for a new garage south of the existing well station building. Review preliminary design and preliminary cost estimate with Village.
12	Assess condition of piping in reservoir. Make recommendation for repair or replacement.
13	Identify a preliminary design for adding a flow meter downstream of the booster pumps.
14	Prepare preliminary construction cost estimate for recommended improvements at Well No. 4
System	
15	Coordinate with the WDNR on the disconnection requirements for Well Nos. 5 and 6. Determine conceptual design. Conduct hydraulic modeling to determine changes to the water distribution system.
16	Prepare preliminary construction cost estimate for water distribution system improvements.
Administrative	
17	Have two review meetings with Village. One at 70% completion and one at 90% completion.
18	Prepare written report.
19	Submit report to WDNR for approval. Answer WDNR questions.
20	Present report findings at Village Board meeting.

TASK ORDER

3. Owner's Responsibilities

Provide water system information as needed. Provide feedback at review meetings.

4. Times for Rendering Services

<u>Phase</u>	<u>Completion Date</u>
Well Nos. 3 and 4 HMO Treatment Predesign Study	April 15, 2023

5. Payments to Engineer

A. Owner shall pay Engineer for services rendered as follows:

<u>Category of Services</u>	<u>Compensation Method</u>	<u>Lump Sum, or Estimate of Compensation for Services</u>
Well Nos. 3 and 4 HMO Treatment Predesign Study	Time and Materials	\$38,385.00

B. The terms of payment are set forth in the Standard Terms and Conditions.

6. Consultants

None.

7. Other Modifications to Standard Terms and Conditions

None.

8. Attachments

None.

9. Documents Incorporated by Reference

Ruekert & Mielke, Inc. / Village of Mukwonago Master Agreement

TASK ORDER

Terms and Conditions: Execution of this Task Order by Owner and Engineer shall make it subject to terms and conditions, (as modified above) set forth in the Master Engineering Agreement Amendment between Owner and Engineer, dated February 20, 2019, which are incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is _____, _____.

OWNER:

ENGINEER:

Village of Mukwonago

Ruekert & Mielke, Inc.

Signature: _____

Signature: _____

Name: _____

Name: Steven C. Wurster, P.E.

Title: _____

Title: Senior Vice President/COO

Date: _____

Date: October 26, 2022

DESIGNATED REPRESENTATIVE FOR TASK ORDER

Name: _____

Name: David W. Arnott, P.E.

Title: _____

Title: Team Leader/Senior Project Manager

Address: _____

Address: W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

Email: _____

Email: darnott@ruekert-mielke.com

Phone: _____

Phone: 262-953-3080

Fax: _____

Fax: 262-542-5631

MEMO

TO: Dave Brown
Utilities Director
Village of Mukwonago

FROM: Alan Labisch

DATE: November 19, 2021

SUBJECT: Wells No. 3 and 4 Radionuclide Removal Analysis

INTRODUCTION

The Village of Mukwonago owns and operates 5 municipal wells, two of which are much deeper than the others. Wells No. 3 and 4 are the Village's deepest and highest-yielding wells. Both contain natural amounts of radium 226 and 228, and strontium. Combined radium 226 and 228 are regulated at a maximum concentration of 5 pCi/L in community water systems, and strontium is unregulated but has an EPA health advisory limit of 4 mg/L.

An initial radium removal analysis was performed by R/M in February of 2019 to evaluate costs associated with providing treatment at Wells No. 3 and 4. It was mostly focused on HMO filtration, and it was recommended that the Village further evaluate providing radium removal treatment facilities for both Wells 3 and 4 at Well Station 4. After completion of the initial analysis, the Village expressed interest in analyzing more radium removal alternatives, leading to this follow-up analysis. In this exercise, we focused on a wider range of alternatives and provided consideration for strontium and other radionuclides in addition to radium 226/228.

The purpose of this analysis was to evaluate the potential of implementing a radionuclide removal facility to remove radium and other radionuclides from wells No. 3 and 4. Multiple alternatives were considered and compared, including Hydrous Manganese Oxide (HMO) filtration, Adsorption/WRT, Reverse Osmosis (RO), Ion Exchange, Membrane Softening, and Electrodialysis. Membrane Softening, Electrodialysis, and Ion Exchange were ruled out from further consideration early in the comparison due to cost.

To develop cost estimates for each alternative, capital costs (equipment and building footprint), and operational costs (chemical, energy, and waste disposal) were considered. R/M received baseline capital and operational costs for HMO and RO from a water filter manufacturer to aid with the estimating process. Detailed cost information can be found in appendix A.

FINDINGS SUMMARY

The costs of each alternative were compared, and the findings are summarized below in Table 1. For the purposes of this cost comparison, it was assumed that a new building would be constructed in each alternative, with the required building area determined by equipment size. The Village may be able to use the existing Well Station 4 as space for some or all of the radium removal equipment, which could reduce capital costs for each alternative.

A detailed comparison of advantages and disadvantages for each alternative is included in appendix A.

Table 1. Cost Estimate Summary for Radium Removal Alternatives

	HMO	RO	WRT *
Capital Cost	\$ 2,538,700	\$ 2,991,150	\$ 2,720,000
Annual Operational Cost	\$ 102,200	\$ 553,300	\$ 103,753
30 Year Life Cycle Cost	\$ 7,500,600	\$ 29,854,250	\$ 7,758,000

* WRT Uses different cost basis than other alternatives. See 'WRT' sheet in Appendix A for details.

RECOMMENDATIONS

After comparing the capital and operational costs of the different alternatives, it is determined that HMO Filtration is the most cost-effective in the short and long term. The estimated capital cost of HMO Filtration is the cheapest of the studied alternatives. The estimated annual operating cost of the HMO Filtration system is marginally cheaper than WRT, and significantly cheaper than RO. When projected as a 30-year cost, HMO Filtration is estimated to be about 22 million dollars cheaper than RO given the same flow rate and energy cost assumptions.

While HMO Filtration is the most cost-effective alternative for removing combined radium from wells 3 and 4, the detection of strontium in both wells No. 3 and 4 warrants consideration. Both R/M and the Village support planning for future potential strontium regulations. The HMO Filtration would not be designed to remove strontium from the water supply, as it would be dedicated to removing combined radium. While it could remove some strontium, it would not be very effective at it. In order to accommodate for this, additional space in the chosen site would serve future strontium removal equipment. This would include proper horizontal and vertical clearance for equipment skids and process piping, and depending on the chosen site, could include a knock-out wall for additional expansion. If other radionuclides are to be regulated in the future, the dedicated additional space in the HMO filtration facility could be used for more filtration equipment.

Reverse Osmosis is a unique alternative because it can remove radium, strontium, hardness, and more from the water supply. RO can remove virtually any contaminant that is physically larger than the pore size of the selected membrane. While RO would allow the Village to meet combined radium limits and offer the most flexibility and futureproofing when it comes to constituent removal, the very high operational costs make it a less desirable alternative. RO is limited to operating at high pressure differentials, usually above 100 psi, which results in a high energy cost. The high costs of RO outweigh its versatility and its removal efficiency for this application.

WRT, a water technology company, offers an adsorption system with contractual operation and waste management services, using a proprietary adsorption media called Z-88. This alternative is attractive because of the services offered by WRT. They will operate, handle, and maintain the filtration equipment, and dispose of fouled media in a licensed facility without Village utility staff needing to step in. Since utility staff would not have to operate the filtration equipment, it would free up time for staff to complete other tasks, and potentially reduce exposure to radionuclide waste. The conveniences of this alternative are contrasted by contract fees, long contract terms (reduced flexibility), reliance on a proprietary product, and potential long-term liability for media waste. Additionally, R/M understands that these contracts with WRT

involve some amount of payment per unit of water treated, meaning that variability in pumped water volume could greatly affect process fees.

The Village is well positioned to construct an HMO Filtration facility at or near Well Station 4 to serve Wells No. 3 and 4. The low capital and operational costs of HMO Filtration make it the most attractive option for removing combined radium from the water supply in the Village.

●AJL:vlf

Appendix A. Pros/Cons and Cost Estimate Information

Comparison of Treatment Alternatives for the Removal of Radium from Drinking Water

Treatment Alternative	Advantages	Disadvantages
Hydrous Manganese Oxide (HMO) Filtration	Also removes iron and manganese. Discharge is not concentrated. Removes up to 90% of radium. Low operation and maintenance requirements. Typically removes arsenic. Best for systems with existing filtration plants, like Mukwonago. Wastewater characteristics are not changed.	Need sanitary sewer capacity for backwash events. May need backwash holding tank. Does not typically remove Uranium. The dosing of HMO is delicate, too much can clog and too little will not remove enough. High levels of iron in the influent will compete for adsorption sites, reducing radium removal. Fouled filtration media must be landfilled.
Fixed Bed Adsorption (Barium Sulfate Salts, Zeolite, Etc.)	Simple treatment, no chemical addition. No liquid waste.	May have long term liability for media waste. Disposal costs can be high due to transport length and specialized disposal sites. No removal of iron or manganse. Radium waste is concentrated in the brine solution. May need additional adsorption system. Media is single use only and must be completely wasted after fouled. Adsorption media is often specific to one isotope (can't remove all radionuclides). Low minimum empty bed contact time means frequent replacement of media (expensive). Generally higher operating costs than Ion Exchange for radium removal. Hard to backwash, if possible at all, leading to potential build up of sediment in bed.
Ion Exchange	Efficient removal of radium. System could remove strontium and uranium depending on the resin Low power requirements for operation. Low operation and maintenance requirements. Hardness is reduced in treatment process. The resin can be recharged many times and rarely needs replacement.	High concentrations of sodium in wastewater. High concentrations of chlorides in wastewater. Corrosive nature of wastewater. The contaminant needs to be in the proper ionic form. Competition from other ions such as sulfate and hardness will reduce removal capacity.
Reverse Osmosis	System can remove virtually any contaminant larger than the membrane pore size. High level of treatment, listed as a best available technology. Removes 99%+ of all radionuclides.	High volume of waste/reject water. 10-70% of water input is wasted depending on pressure drop and membrane characteristics. High levels of radium and total dissolved solids in the waste stream and fouled membranes. Input stream usually requires pretreatment in order to mitigate fouling and scaling of membranes. High energy costs to maintain high pressures (100-150psi) inside membrane units. Some membranes are sensitive to chlorine. Requires careful and consistent monitoring of membranes and effluent parameters, as membranes are prone to fail. May significantly lower alkalinity, which could lower pH and increase corrosivity.
Membrane Softening	Similar to RO, can reach a high level of consituent removal.	High volumes of wastewater. High capital costs. High operational power consumption.
Electrodialysis	May also remove Uranium, arsenic, perchlorate, nitrate, and hardness. Can be highly automated.	High volumes of wastewater. High capital costs. High operational costs due to acid washing and high waste disposal costs. Complicated and very expensive relative to other alternatives.

Source: Environmental Protection Agency: https://cfpub.epa.gov/safewater/radionuclides/radionuclides.cfm?action=Rad_Treatment

Life Cycle Cost Analysis for Radium Removal Treatment Alternatives

Hydrous Manganese Oxide Process, Pyrolusite Media (2015)2015 to 2021 rate adjustment =1.203

Cost Assumptions

20.5% NaMnO4 solution	\$7.51 /gal
29.5% MnSO4 solution	\$4.77 /gal
Electricity	\$0.07 /kWh
Wastewater	\$1.59 /Ccf
TSS	\$0.67 /lb

Capital Costs

Filter Loading Rate	7.47 gpm/sqft
Est Capital Cost	\$725,000 /2000 gal

Unit Capital Cost\$362.50 /gal

Operating Costs

Mn feed conc.	0.5 ppm HMO as Mn
Mn chemical cost	\$76.98 /day
Mn chemical cost	\$28,097.70 /year
Electrical and Waste	\$52,724.00 /year

Information from WaterSurplus

Vessel Orientation	Vertical	
Vessel Diameter (ft)	54 inches	
No. of vessels	16	
Configuration	Two Pods of 8	
Pod Length	245.25 inches	20.4375
Pod Width	132 inches	11
Pod Height (bottom to ARV)	126.375 inches	10.53125
min Gap between pods	48 inches	
min Gap bw ARV and ceil	12 inches	
min Gap bw edge and wall	48 inches	
Budget Equipment Cost	\$ 650,000.00	
Filter SA	254.4 sqft	
Filter loading rate	7.47 gpm/sqft	
produced flow	1900 gpm/sqft	
backwash flow	395 gpm/sqft	
net flow	1505 gpm/sqft	

Minimum footprint

Length	341.25	
Width	312	
Height	138.375	11.53125
Square Footage	739.375	sqft

Additional Space Required

Chemical Storage	48		
MCC	48		
Open Area/Piping Space	96		
Backwash Tank	50		
Total Square Footage:	981.375		
Rough building cost estimate	450 \$/sqft	incl foundation, floor, masonry, roof, basic electrical, basic HVAC	
Rough cost of new bldg	\$ 441,618.75		

Cost Summary

CAPEX	
Equipment	\$872,100
Equipment and Electrical Installation	\$261,700
Process Piping	\$87,300
SCADA	\$40,000
Building	\$441,700
Chemical Equipment	\$30,000
Backwash Tank	\$125,000
Site Work (Grading, Pavement,Erosion Control, Clearing & Grubbing)	
Water Main Connections	\$70,000
Contingency, bonding, (30%)	\$510,900
Estimated Capital Cost	
	\$2,538,700
Annual OPEX	
Chemical Supply	\$33,800
Electrical	\$4,400
Waste Disposal	\$59,100
Repairs to System	\$4,900
Estimated Annual OPEX	\$102,200.00
F=(P)*(((1+i)^n-1)/i)	
30 Year OPEX =	\$4,961,900
Total Cost over 30 Years	
	\$7,500,600

Life Cycle Cost Analysis for Radium Removal Treatment Alternatives

Reverse Osmosis Process		2015 to 2021 rate adjustment =	1.203
<u>Cost Assumptions</u>			
Electricity	\$0.07 /kWh		
Wastewater	\$1.59 /Ccf		
TSS	\$0.67 /lb		
<u>Capital Costs</u>			
Est Capital Cost	\$890,000 /2000 gal		
<u>Operating Costs</u>			
RO Main Operation	\$801.10 /day		
=	\$292,401.50 /year		
Concentrate Processing	\$450.10 /day		
=	\$164,286.50 /year		
<u>Information from WaterSurplus</u>			
Vessel Orientation	Horizontal		
	Two skids with smaller backwash		
Configuration	skid		
Skid Length	67 inches		
Skid Depth	274 inches		
Skid Height	94 inches		
min Gap between skids	48 inches		
min Gap bw top and ceil	36 inches		
min Gap bw side edge and wall	48 inches		
min Gap bw main edge and wall	60 inches		
Budget Equipment Cost	\$ 975,000.00		
Filter SA	254.4 sqft		
Filter loading rate	7.47 gpm/sqft		
produced flow	1900 gpm/sqft		
backwash flow	395 gpm/sqft		
net flow	1505 gpm/sqft		
<u>Main Units footprint</u>			
Length	278 in		
Width	382 in		
Height	130 in		
Square Footage	737.47sqft		
<u>Backwash Unit</u>			
Length	94 in		
Width	274 in		
Height	50 in		
Backwash unit square footage	178.86		
<u>Additional Space Required</u>			
Chemical Storage	48		
MCC	48		
Open Area/Piping Space	96		
Backwash Tank	50		
Total Square Footage	1158		
Rough building cost estimate	450 \$/sqft	incl foundation, floor, masonry, roof	
	\$ 521,250		

<u>Cost Summary</u>	
<u>CAPEX</u>	
Equipment	\$ 1,070,500
Installation & Wiring	\$ 321,200
Process Piping	\$ 107,100
Building	\$ 521,250
SCADA	\$ 40,000
Chemical Equipment	\$ 30,000
Backwash Tank	\$ 125,000
Site Work (Grading, Pavement,Erosion Control, Clearing & Grubbing)	\$ 100,000
Water Main Connections	\$ 70,000
Contingency, bonding, (30%)	\$ 606,100
Estimated Capital Cost	\$ 2,991,150
<u>Annual OPEX</u>	
RO Operation + Membrane Replace	\$ 351,700
Concentrate Processing	\$ 197,600
Repairs to System (not Membrane)	\$ 4,000.00
Estimated Annual OPEX	\$ 553,300.00
F=(P)*(((1+i)^n-1)/i)	
30 Year OPEX =	\$ 26,863,100
Total Cost over 30 Years	\$ 29,854,250

Life Cycle Cost Analysis for Radium Removal Treatment Alternatives

WRT Process

Parameter	#	Units	Comments
			Please note that all numbers in this estimate have been indexed from past quotes for a different system. It does not have the level of detail or accuracy as the other alternatives
Capital Costs			Info is From an older study in different community w/ similar pumping capacity. Not a current quote. Values are rough estimates.
Equipment	\$ 879,255		
Installation & Wiring	\$ 263,800		
Process Piping	\$ 88,000		
Building	\$ 700,000		
SCADA	\$ 40,000		
Chemical Equipment	\$ 50,000		
Site Work (Grading, Pavement,Erosion Control, Clearing & Grubbing)	\$ 50,000		
Water Main Connections	\$ 70,000		
Contingency, bonding, (30%)	\$ 579,400		
Estimated Capital Cost	\$ 2,720,455		
Operating Costs			
Average pumping volume	310 MG/Year		
% rated capacity from Wells 3+4	53%		
Average pumping volume from Wells 3+4 based on pump capacity ratio above	164 MG/Year		
WRT Unit Op Cost	0.62 \$/1000 gal		
WRT Labor Cost	\$ 2,080 /year	Assumes 1 man-hours a week at \$40/hr	
Annual Equipment Charge	\$ 101,673 \$		
Total operational cost	\$ 103,753 /year		
F=(P)*(((1+i)^n-1)/i)			
30 Year OPEX =	\$ 5,037,300		
Total Cost over 30 Years	\$ 7,757,755		

**WATER SUPPLY AND WASTEWATER
TREATMENT SYSTEM
CAPACITY ANALYSIS**

**VILLAGE OF MUKWONAGO
WAUKESHA COUNTY, WISCONSIN
MAY 2021**

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WATER SUPPLY AND WASTEWATER TREATMENT SYSTEM CAPACITY ANALYSIS

INTRODUCTION

The purpose of this analysis was to evaluate the capacity of both the wastewater treatment facility (WWTF) and water supply system to determine the available capacity to serve future developments

WASTEWATER TREATMENT PLANT CAPACITY ANALYSIS

Biochemical oxygen demand (BOD) is a common measure of the organic concentration of domestic wastewater. BOD will be used as an overall indicator of the wastewater treatment facility capacity. The Mukwonago WWTF has a BOD design capacity of 2,500 pounds per day.

Based on the 2017 WWTF Septage Receiving, Digester and Biosolids Update study from monthly discharge monitoring reports, it is estimated that the existing average BOD loading is approximately 1,719 pounds per day. This does not include the additional loading from septage and holding tank waste. Recently, the acceptance of septage and holding tank waste was suspended.

It is planned that the WWTF will accepted 3 million gallons per year of septage and holding tank waste. At a concentration of 3,000 mg/L BOD, this loading equates to approximately 208 pounds BOD per day.

The Village is presently in negotiations with CHR Hansen to move some of their manufacturing operations to the Village. CHR Hansen manufactures natural food coloring and dyes. CHR Hansen would move some of their manufacturing operations to the Village. The Village has indicated to CHR Hansen that they could treat a maximum of 150 pounds per day of BOD.

There are also numerous developments that are in various stages. The most advanced developments in the planning process are analyzed in the following section.

For the Maple Centre development there will be 675 total units. This includes 371 one-bedroom units, 204 two-bedroom units and 100 three-bedroom units. A factor of 1.25 people per unit will be used for the one-bedroom units. A factor of 2.5 people per unit is used for the two-bedroom and three-bedroom units. The total population from this development is therefore 1,249.

For the Chapman development, there will be 88 single family homes and 24 duplexes. This equals 136 dwelling units. With a factor of 2.5 people per dwelling unit, the total population will be 340.

The Minor development is planned to have 30 single family homes. Using a factor of 2.5 people per dwelling unit, the projected population is 75.

The Meadowland development is planned to have six duplexes which equals 12 dwelling units. Using the same population factor per dwelling unit, the planned population is 30.

The Edgewood Meadows development is planned to have 17 duplexes which equals 34 dwelling units. Using the same population factor per dwelling unit, the planned population is 85.

Table 1 shows the anticipated loading from each development. The organic loading is based on 0.2 pounds of BOD per person per day which is an industry standard.

Table 1 – Organic Loading From Planned Developments

Development	No. of Dwelling Units	Population	Pounds BOD Per Day
Maple Centre	675	1,249	250
Chapman	136	340	68
Minor	30	75	15
Meadowland	12	30	6
Edgewood Meadows	34	85	17
Total			356

CONCLUSION

Table 2 summarizes the existing condition and planned new loading with the WWTF accepting septage/holding tank waste, CHR Hansen loading, and all future developments previously described. Table 2 shows the design capacity of the WWTF and the remaining capacity of 67 pounds of BOD per day if all future components take place. The Village has decided that if additional capacity is needed before a significant WWTF expansion takes place, septage/holding tank waste loading would be reduced from reducing the volume of this waste accepted.

Table 2 – BOD Loading Summary

Component	BOD Loading (Pounds Per Day)
Existing	1,719
Septage/Holding Tank Waste	208
CHR Hansen	150
Future Developments	356
Subtotal	2,433
WWTF Capacity	2,500
Remaining Capacity if All Components Happen	67

The remaining capacity of 67 pounds of BOD per day equates to an additional population of 335 people.

WATER SYSTEM CAPACITY ANALYSIS

The analysis includes the evaluation of the capacity of the Village's water supply, pumping and storage facilities in order to determine if there is surplus capacity available to serve additional customers. Also included is determining the ability of the distribution system to convey water to different areas within the Village and to the boosted pressure zone on the south end of the Village.

EXISTING FACILITIES

The Village's water facilities (excluding the distribution system) includes wells, pumping stations and storage tanks. Pumping equipment is located at each well. There also is a pressure boosting pumping station to serve the Tax Incremental District (TID) No. 5 and future development to the south. The capacities of the existing facilities and the pressure boosting station are shown in Tables 3 through 5.

Table 3 - Well Pumping Stations

Facility I.D.	Well Capacity				On-Site Storage (mg)	Service Pump Capacity (mgd)	
	Rated		Actual			Pump 1	Pump 2
	(gpm)	(mgd)	(gpm)	(mgd)			
Well 3	900	1.30	850	1.22			
Well 4	1,000	1.44	1,000	1.44	0.33	1.22	1.22
Well 5	900	1.30	700	1.01			
Well 6	350	0.50	300	0.43			
Well 7	684	0.98	650	0.94			

Table 4 - Elevated Tanks

Facility I.D.	Volume (mg)
North	0.50
South (I-43)	0.50

Table 5 - Pressure Boosting Station

Facility I.D.	Pump Capacity	
	(gpm)	(mgd)
Pump 1	100	0.14
Pump 2	350	0.50
Pump 3	350	0.50
Pump 4	700	1.01
Pump 5	1,000	1.44
Pump 6	1,000	1.44
Pump 7 (Future)	1,000	1.44

PROJECTED WATER DEMANDS

Projected water demands were determined from statistics for water consumption obtained from the Wisconsin Public Service Commission (WPSC) for the years 2011-2018. Average and maximum day water use from 2011 to 2018 is show in Table 6. Of note is water consumption in 2012. There was a long period of hot, dry weather in June of that year. Both the total volume pumped for the year and, more importantly,

the maximum day pumped volume were significantly higher than other years. A similar stretch of hot, dry weather now or in the future can be expected to result in similar rates of consumption.

Table 6 - Village of Mukwonago Water Use 2011 to 2018

Year	Water Use, MG			Max. Day Date	Max./Avg. Day Ratio	Reason for Max. Day Pumpage
	Total Pumped	Avg. Day	Max. Day			
2018	267	0.73	1.48	7/10/18	2.03	Hot weather & Construction
2017	255	0.70	1.15	8/14/17	1.65	Hydrant hit by car
2016	259	0.71	1.96	8/9/16	2.77	Filling retention pond
2015	239	0.65	1.27	9/24/15	1.94	High usage
2014	216	0.59	0.96	7/19/14	1.62	High usage
2013	237	0.65	1.10	5/21/13	1.69	High usage
2012	296	0.81	1.72	6/22/12	2.13	Hot & dry weather
2011	271	0.74	1.31	1/8/11	1.77	Water main break

The average customer consumption rate was calculated based on the average number of residential customers and annual metered residential consumption. The average annual residential water use from 2011 to 2018 is summarized in Table 7.

Table 7 - Average Residential Consumption

Year	Population Served	Average No. of Residential Customers	Annual Metered Residential Consumption (mg/year)	Average Per Customer Residential Consumption (gal/day)
2018		2,535	114,587	124
2017		2,464	114,737	128
2016		2,411	118,409	134
2015		2,368	116,012	134
2014	7,507	2,311	109,764	130
2013	7,430	2,255	110,914	135
2012	7,390	2,225	125,512	154
2011	7,375	2,208	115,322	143

Current average day and maximum day design demands were determined using demand information from 2012 and adding the projected increase in demand due to the increase in residential customers. It is assumed that a residential customer consumes an average of 150 gallons/day and 3 times that on a maximum day. The number of residential customers has increased from 2,225 to 2,335 in 2018. The estimated increase in average day and maximum day demands from 2012 are 0.05 mgd and 0.14 mgd respectively. Based on this increase, the current average day and maximum day design values used in this evaluation are 0.86 mgd and 1.86 mgd respectively. While pumping volumes have been lower in subsequent years, these volumes will be used to check the adequacy of the existing facilities to meet projected demands.

ANALYSIS METHODOLOGY

Water system supply, pumping and storage facilities work together to provide the capacity needed to meet customer demands. Specific criteria have been developed to determine the adequacy of water system facilities. These criteria are described below. See Appendix A for a more complete explanation of the criteria, including an example calculation. These criteria assume supply is provided by groundwater wells.

ANALYSIS CRITERIA

The water system capacity is evaluated using the following four criteria:

1. Well Pump Capacity

There should be sufficient well pump capacity to supply the peak day pumpage volume with the largest capacity or most critical well pump inoperable.

2. Peak Hour Storage Capacity

There should be sufficient storage volume to provide the difference between the peak hour rate and the peak day rate for a duration of 4 hours. Excess well supply capacity can be applied to satisfy this criteria.

3. Fire Flow Storage Capacity

There should be sufficient pumping and storage capacities to provide the recommended fire flow rate and duration. It is assumed that pumpage at the peak hour rate for a duration of 4 hours immediately precedes the fire flow event and a concurrent peak day demand rate occurs during the fire flow event.

4. Emergency Supply Capacity

There should be sufficient elevated storage volume and pumping facilities equipped with auxiliary power to provide an average day pumpage volume.

Based on these criteria, an analysis was performed to determine the adequacy of the Village's water supply, pumping and storage facilities. The most critical criteria for the Village is well pump capacity. While Well 4 has the greatest capacity (1,000 gpm/1.44 mgd) it is Well 5 (700 gpm/1.01 mgd) that is most critical. This is because Wells 3 and 4 produce water which exceeds the allowable limit for radium. Wells 3 and 4 draw water from the deep sandstone aquifer. This aquifer underlines southeastern Wisconsin and in most locations produces water containing naturally occurring radium. Wells 5 and 6 draw water from the shallow sand and gravel aquifer.

Water in this aquifer contains little or no radium. Wells 5 and 6 were constructed to provide a radium free source of water to blend with water from Wells 3 and 4. At a blending ratio of about 50/50, the blended water complies with the radium standard.

Well 5 is the most critical well because its loss indirectly reduces the flow rate available from Wells 3 and 4. Without Well 5, only Well 6 (300 gpm/0.43 mgd) is available to blend with Wells 3 and 4. The loss of Well 5 would significantly reduce the volume of radium compliant water available to meet customer demands.

ANALYSIS RESULTS

The table below shows the adequacy of the existing facilities to meet current potential demands based on the analysis criteria.

<u>Criteria</u>	<u>Excess Capacity</u>
Well Pump	-0.06 MGD
Peak Hour Storage	0.59 MG
Fire Flow Storage	0.19 MG
Emergency Supply	3.10 MG

Assumptions

1. Average day pumping volume = 0.86 MG
2. Maximum day pumping volumes = 1.86 MG

As can be seen in the table, currently there is a slight deficiency in the well pump capacity. The calculation assumes the loss of Well 5 during an extended period of hot, dry weather. While the odds of this occurring are not great, well pumps can and do break down with no notice. Also, shallow wells like Village Wells 5, 6, and 7 are more subject to contamination from man-made sources than are deep Wells 3 and 4. A leak in a buried gasoline tank at a nearby filling station could render Well 5 unusable for an extended time period.

The above table shows the water system facilities currently have surplus capacity with respect to the peak hour, fire flow and emergency supply criteria. More detail on the analysis calculations is shown in Appendix B.

DISTRIBUTION SYSTEM CAPACITY ANALYSIS

Using a software modeling program, the capacity of the distribution system was analyzed at three locations where future growth is anticipated within the Main Pressure Zone. The total available capacity at these locations was determined based on providing a minimum residual pressure of 40 psi at all locations within the existing distribution system during an existing maximum day demand scenario. The total available capacity includes both consumer demand and available fire flow.

The analysis assumes that no pumps are running with all water being supplied by elevated tanks. This is the normal assumption used when determining available fire flows because it is not known which pumps will be available and running during a fire emergency. The water level in the elevated tanks is assumed to be 10 feet below the overflow elevation.

The total available capacities provided in the following sections are the theoretical values that are available at the indicated locations. The actual total available capacity is dependent on the proposed development topography, existing infrastructure, and proposed infrastructure. Additional modeling and field testing should be performed to determine the actual capacity at these locations.

Capacity Analysis No. 1

A capacity analysis was performed for the 12-inch water main located east of the intersection of Grey Fox Trail and Edgewood Avenue. The available capacity at this location is approximately 1,500 gpm at a residual pressure of approximately 64 psi. Demands greater than 1,500 gpm at this location would result in the pressures east of the intersection of Summit Ct. and Riverton Drive North dropping below 40 psi.

Capacity Analysis No. 2

A capacity analysis was performed for the 12-inch water main located at the intersection of STH 83 and Black Bear Blvd. The available capacity at this location is approximately 1,000 gpm at a residual pressure of approximately 51 psi. Demands greater than 1,000 gpm at this location would result in the pressures at the intersection of West Veterans Way (CTH NN) and Pinehurst Drive dropping below 40 psi.

Capacity Analysis No. 3

A capacity analysis was performed for the 16-inch water main located on Maple Avenue north of the proposed booster pumping station. The available capacity at this location is approximately 3,000 gpm at a residual pressure of approximately 59 psi. Demands greater than 3,000 gpm at this location would result in the pressures at the intersection of West Veterans Way (CTH NN) and Pinehurst Drive dropping below 40 psi.

Boosted Pressure Zone

The Boosted Pressure Zone is supplied by the Main Pressure Zone using a pumping station. The pumping station is supplied from a 16-inch diameter water main located on Maple Avenue. The future average and maximum day demand of the area to be served by the booster station is estimated to be 1.17 mgd (812 gpm) and 2.34 mgd (1,625 gpm) respectively. The capacity of the Boosted Pressure Zone is determined by the available supply capacity of the Main Pressure Zone and the initial capacity of the proposed pumping station.

The initial capacity of the pumping station is based on providing a fire flow of 2,500 gpm. As the consumer demand in the Boosted Pressure Zone increases, the available fire flow capacity provided by the pumping station will decrease. An additional 1,000 gpm pump will be provided in the pumping station when the maximum day demand of the Boosted Pressure Zone approaches 1,000 gpm. When the future pump is added the booster station will still be able to provide a fire flow of 2,500 gpm at maximum day demand. An elevated storage tank will need to be provided when there are approximately 50 customers in the service area or when the boosted pressure zone maximum day demand exceeds 1,000 gpm (1.44 mgd).

CONCLUSIONS

While the Village has excess water supply capacity when all wells are functioning, the available capacity drops significantly if Well 5 is out of service. Without Well 5, the combined pumping rates of Wells 3 and 4 must be reduced in order to maintain compliance with the radium standard.

The distribution system generally is capable of conveying water from the pumping stations and elevated tanks to where the water is needed. At fire flow rates, customers located at high elevations will see pressure drop below 40 psi. The two affected high elevation areas are the United Church of Christ church on West Veterans Way and area around the intersection of Riverton Drive and Summit Court. This situation is not a concern.

Service to customers located east of Fox River is provided by a single water main crossing the river on CTH ES. A main break or other event requiring closing off this main would result in the loss of service to a number of customers.

A capacity analysis was performed with the assumption that radium treatment was constructed at Well 4. The analysis results are shown below and in more detail in Appendix C.

<u>Criteria</u>	<u>Excess Capacity</u>
Well Pump	1.74 MGD
Peak Hour	0.81 MG
Fire Flow	0.71 MG
Emergency Supply	5.33 MG

Assumptions

1. Average day pumping volume = 0.86 MG
2. Maximum day pumping volumes = 1.86 MG

The 1.74 MGD (1,229 gpm) of excess well pump capacity provided by adding radium treatment at Well 4 would allow service to an additional 3,900 residential customers or their equivalent in multi-family, commercial and industrial customers.

An additional evaluation was performed by projecting demands through the year 2025 based on the current developments being proposed in the Village. Demands were associated with the proposed developments based on land use. Average day water use demand criteria used in projecting the demands is summarized in Table 8. A maximum day to average day demand peaking factor of 3.0 was used to determine maximum day demands for residential customers. A maximum day to average day demand placing factor of 2.0 was used to determine maximum day demands for industrial customers.

Table 8 - Water Use Design Criteria

Land Use Classification	Water Use gpd^(a)
Single Family Residential (SFR)	150
2-Family Residential	300
Multi-Family Residential (MFR)	
1-Bed Apt. (50% SFR)	75
2-Bed Apt. (75% SFR)	112.5
3-Bed Apt. (100 % SFR)	150
Industrial Water Use, gpad	500

(a) Unless indicated otherwise

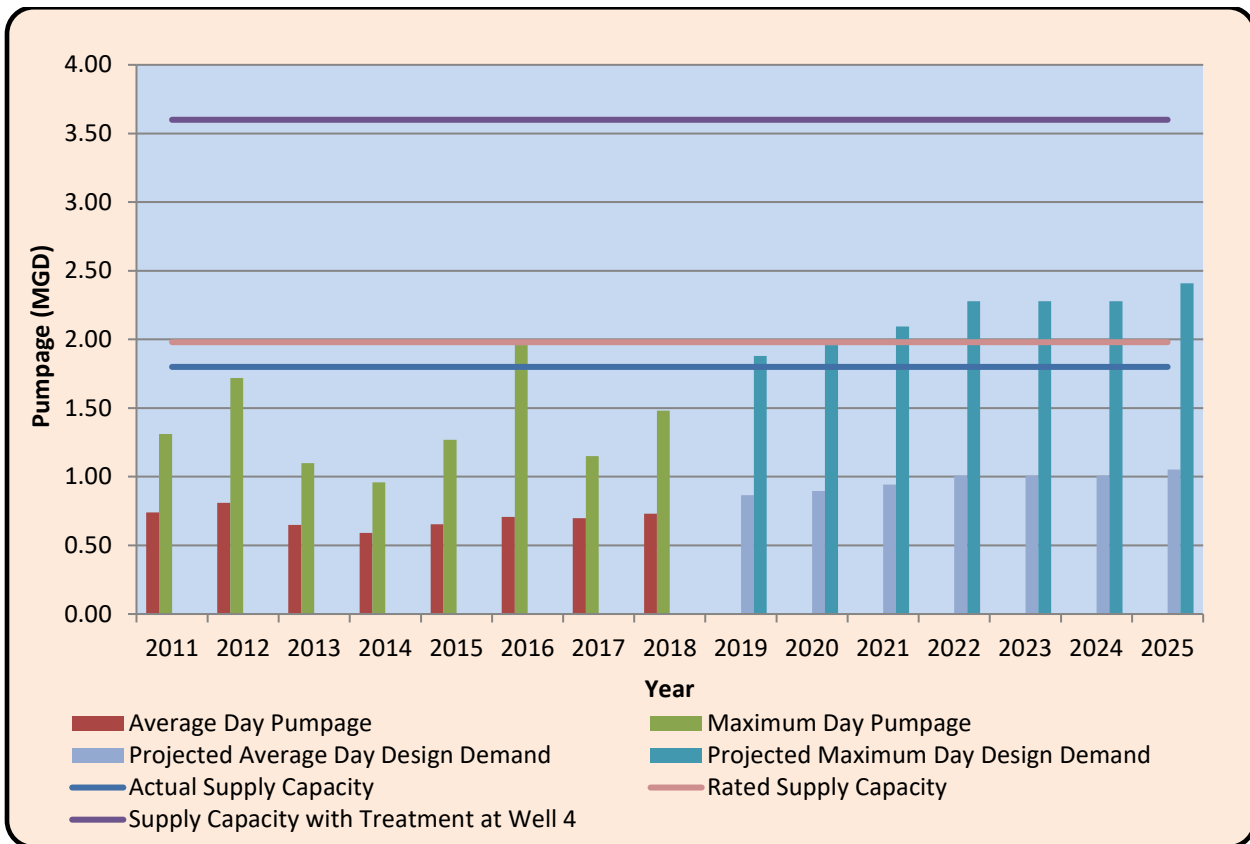
The projected demands for each development and the year in which the demand is expected is summarized in Table 9.

The projected water use was based on preliminary dwelling type information. Based on preliminary information, and assuming all proposed developments are fully developed, the average day and maximum day demands are expected to increase 0.20 mgd and 0.55 mgd, respectively by the year 2025. The projected water use based on the proposed developments is shown in Figure 1.

TABLE 9 - Proposed Development Projected Water Use

Development	Additional Water Use, gpd						
	2019	2020	2021	2022	2023	2024	2025
Maple Center	0	0	32,850	32,925	0	0	0
Chapman Farms	0	7,800	0	12,600	0	0	0
Minor Estates	0	0	6,900	0	0	0	0
Meadowland Apartment	0	1,800	0	0	0	0	0
Edgewood Meadows	0	2,700	2,400	0	0	0	0
Great Life	0	0	0	5,325	0	0	0
Siewert	0	0	0	0	0	0	43,425
Phantom Lakes Preserve	0	3,000	0	0	0	0	0
Edgewood Villages	0	3,375	0	0	0	0	0
TID No. 5 Business Park	10,350	10,950	4,550	15,750	0	0	0
Average Day Use, gpd	10,350	29,625	46,700	66,600	0	0	43,425
Cumulative Average Day Water Use, mgd	0.01	0.04	0.09	0.15	0.15	0.15	0.20
Maximum Day Use, gpd	20,700	77,925	135,550	184,050	0	0	130,275
Cumulative Maximum Day Water Use, mgd	0.02	0.10	0.23	0.42	0.42	0.42	0.55

FIGURE 1 – Projected Water Use and Supply Capacity



RECOMMENDATIONS

The supply capacity recommendations are based on the rated capacities of the wells and do not take into account hydraulic restrictions, equipment performance, radium compliance, or maintenance issues that restrict the supply capacity of the wells. The recommended way to increase the water supply capacity is to construct a radium removal treatment facility at Well 4. Currently, there is a 12-inch "blending" water main that is constructed from Well 3 to Well 4 which would allow water to be pumped directly from Well 3 to a treatment facility at Well Station 4. Use of this water main would allow water from both Well 3 and 4 to be treated at a common radium removal treatment facility.

The analysis of adequacy with respect to well pump capacity assumes the highest capacity or most critical well is out-of-service. Well 5 currently is the most critical well because its loss also significantly reduces the ability to use Well 3 and 4. With treatment installed to remove radium from Well 3 and Well 4, water produced by the wells will not require blending in order to be in compliance with the radium standard. In this case, even with the loss of Well 4 (which would be the highest capacity well), the total capacity available would increase from 1.80 MGD to 3.60 MGD. This is because Well 3 could be pumped at full capacity along with Wells 5 and 6.

Providing radium removal treatment for only Well 4 would increase the theoretical total capacity available from 1.80 MGD to 3.38 MGD. This is less than providing treatment for Wells 3 and 4 because the capacity of Well 3 would still need to be reduced in order to blend with Wells 5 and 6. However, the actual total capacity, would be less than the theoretical due to hydraulic limitations associated with the current discharge piping and mixing system that prevent Well No. 3 from being pumped at full capacity when blending with water from Wells 5 and 6.

A radium removal treatment cost analysis was performed in February of 2019 to evaluate the costs associated with providing treatment at Well 4 and for providing treatment for Wells 3 and 4. A copy of the radium removal treatment cost analysis is included in Appendix D. It is recommended that the Village further evaluate providing radium removal treatment facilities for both Wells 3 and 4 at Well Station 4. The evaluation should include consideration of the likelihood of approval by the Public Service Commission for treatment for Well 4 or treatment for Wells 3 and Well 4.

Another option for increasing well pump capacity is to drill additional shallow wells, which do not have radium. However, as was the case for Village Well 7, searching for a site upon which a high capacity shallow well can be drilled is time consuming and success cannot be guaranteed. While a shallow well will not need treatment to remove radium, treatment to remove iron may be recommended for aesthetic reasons.

As customers are added east of the Fox River, consideration should be given to improving service reliability by constructing a second water main across the river. If service is extended to higher elevation areas near the northwest portion of the Village, consideration should be given to establishing a boosted pressure zone to serve these areas.

APPENDIX A

Methodology for Analyzing Capacities of Groundwater Supplied Systems

APPENDIX A

Methodology for Analyzing Capacities of Groundwater Supplied Systems

System capacity is expressed using the following four criteria:

1. Well Pump Capacity
2. Peak Hour Storage Capacity
3. Fire Flow Storage Capacity
4. Emergency Supply Capacity

These capacities are determined by comparing average day and peak day pumpage volumes against combinations of well, pumping and storage volumes. A description of each criteria and a sample calculation follow. For the sample calculation, it will be assumed that a water utility has the following facilities:

Unit Well 1

Includes a 500 gpm (0.72 MGD) well pump which discharges directly to the distribution system. A natural gas-fueled engine and right-angle drive unit can operate the well pump during electric power outages.

Unit Well 2

Includes a 300 gpm (0.43 MGD) well pump which discharges into an on-site reservoir having a gross storage volume of 400,000 gallons. Three 400 gpm service pumps draw water from the reservoir and discharge to the distribution system. An on-site diesel-fueled engine-generator set has enough capacity to operate the entire facility during electric power outages.

Unit Well 3

Includes a 750 gpm (1.08 MGD) well pump which discharges directly to the distribution system. No equipment is on-site to operate the pump during electric power outages.

Elevated Storage

A spheroid-style tank has a gross capacity of 250,000 gallons and a total head range of 31 feet.

The projected average day and peak day pumpages are 0.50 MG and 0.90 MG, respectively. The recommended fire flow supply is 3500 gpm (5.04 MGD) for 3 hours.

Well Pump Capacity

There should be sufficient well pump capacity to supply the peak day pumpage volume with the largest capacity well pump inoperable.

Many utilities have distribution systems which are separated into pressure zones. Transfer stations are required to allow controlled transfer of water between pressure zones. Transfer stations may include pumps, meters and controllable valves. Without transfer stations, excess well capacity within one pressure zone would not be available to satisfy water demands in other pressure zones. It will be assumed that transfer stations exist or will be constructed to allow transferring water between pressure zones at rates sufficient to allow continuous operation of all well pumps.

Example calculation. There are a total of 3 wells having capacities of 300 gpm, 500 gpm and 750 gpm. Assuming the 750 gpm pump is inoperable, the remaining capacity is $300 + 500 = 800 \text{ gpm} = 1.15 \text{ MGD}$. If the needed peak day pumpage is 0.90 MG, the surplus available is $1.15 - 0.90 = 0.25 \text{ MGD}$.

Peak Hour Storage Capacity

One purpose of storage is to have water available to meet limited duration peak water demand rates.

Storage can be provided by an elevated tank, in which case it will be assumed that the rate at which the tank can supply water is unlimited. Repump storage refers to tanks from which pumps draw suction and discharge to the distribution system. For repump storage, the rate at which water can be delivered to the distribution system is determined by the aggregate capacity of the pumps. The volume a repump storage tank can provide is determined by the aggregate pump-out rate and the time period during which the pumps operate.

Water demand typically varies over any 24 hour long period, with higher demand rates normally occurring during the day and lower rates at night. This means that on the day of peak demand for the year, there will be time periods during which the demand rate exceeds the average rate for the peak day.

The storage volume needed to satisfy the Peak Hour Storage criteria is defined as the difference between the Peak Hour rate and the Peak Day rate for a duration of 4 hours. A Peak Hour rate of 2.0 times the Peak Day rate will be used for small systems. A Peak Hour rate of 1.75 times Peak Day rate will be used for larger systems identified as Class AB by the Wisconsin Public Service Commission.

Example calculation. The Peak Hour rate would be $2 \times \text{Peak Day rate}$ or $2 \times 0.90 \text{ MGD} = 1.80 \text{ MGD}$. The difference between the Peak Hour rate and the Peak Day rate is $1.80 - 0.90 = 0.90 \text{ MGD}$. The needed volume is determined by the 4 hour duration or $0.90 \times 4/24 = 0.15 \text{ MG}$.

If the aggregate well capacity exceeds the Peak Day demand rate, the surplus well capacity is available to help satisfy the Peak Hour Storage criteria. In the example, there is a surplus 0.25 MGD of well capacity. The volume available over a 4 hour period is $0.25 \text{ MG} \times 4/24 = 0.04 \text{ MG}$.

Usable storage volume for a repump tank is assumed to be 75% of gross volume.

For Unit Well 2, the aggregate service pump rate is $3 \times 400 \text{ gpm} = 1200 \text{ gpm}$. The input rate is 300 gpm, so the net pump-out rate is $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MGD}$. The net pump-out volume over a 4 hour period is $1.30 \times 4/24 = 0.22 \text{ MG}$. The usable storage volume is $0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$. The usable storage volume exceeds the net volume which can be pumped from the reservoir during the 4 hour time period. The lesser of these volumes (0.22 MG) can be assigned to meet the Peak Hour Storage criteria.

For elevated storage tanks, it will be assumed that the available storage volume is that contained in the top 20 feet of the tank head range less 10 percent.

For the example 250,000 gallon spheroid tank, the volume contained in the top 20 feet of head range is 0.19 MG. Ninety percent of this volume is 0.17 MG.

The total volume available to satisfy the Peak Hour Storage criteria is therefore $0.04 + 0.22 + 0.17 = 0.43 \text{ MG}$. The needed volume is 0.15 MG, so the available surplus is $0.43 - 0.15 = 0.28 \text{ MG}$.

Fire Flow Storage Capacity

The Insurance Services Office (ISO) is a private firm which, among other activities, assists insurance carriers with determining appropriate premium amounts for various types of insurance. The ISO publishes guidelines which include recommended needed fire flow supplies for individual buildings. The recommended fire flow supply for a building is based on its size, materials of construction and other

factors. For most community water systems, the recommended fire flow supply is 3500 gpm for 3 hours. For very small systems, the recommended supply is 2500 gpm for 2 hours.

To calculate the needed Fire Flow Storage volume, it will be assumed that a 4 hour long Peak Hour demand rate is followed by a fire flow demand. During the fire flow demand period, the assumed concurrent demand will be the peak day demand rate. For the example, the needed Fire Flow Storage volume is calculated as follows:

$$(\text{Peak Hour Rate} \times 4/24) + (\text{Fire Flow Rate} \times \text{Fire Flow Duration}) + (\text{Peak Day Rate} \times \text{Fire Flow Duration}) \\ = (1.80 \times 4/24) + (5.04 \times 3/24) + (0.90 \times 3/24) = 1.04 \text{ MG.}$$

The volume available to satisfy the needed Fire Flow Storage includes pumpage from wells, pumps drawing from repump storage tanks and elevated tanks. For wells, it is assumed that the largest capacity well is inoperable. For elevated tanks, the usable volume is that contained in the top 55 feet of head range less 10 percent. For the example, the usable elevated tank storage volume would be $0.25 \times 0.90 = 0.22 \text{ MG}$.

Similar to the calculations for repump storage for the Peak Hour Storage criteria, available repump storage may be limited by either the usable storage volume or by the ability of the pumps to empty the tank within the available time period. The usable volume is assumed to be 75% of the gross volume, or, for the example, $0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$. For the example, the aggregate repump capacity is $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MGD}$. The time duration is 7 hours, so the pump-out capacity is $1.30 \times 7/24 = 0.38 \text{ MG}$. Since the usable tank volume is only 0.30 MG, this smaller volume is the quantity available.

For the example, the total available Fire Flow Storage volume is calculated as follows:

Aggregate Well Pump Capacity + Repump Storage Volume + Elevated Tank Volume

$$(0.72 + 0.43) \times 7/24 + 0.30 + 0.22 = 0.86 \text{ MG}$$

Surplus Fire Flow Storage Volume = $0.86 - 1.04 = -0.18 \text{ MG}$. The negative sign indicates a deficiency.

Emergency Supply Capacity

The needed Emergency Supply Capacity is assumed to be an average day pumpage. Only elevated storage and pumping facilities equipped with auxiliary power are available to satisfy the Emergency Supply Capacity. In the example, Unit Wells 1 and 2 are equipped with auxiliary power. Unit 1 is simply an engine directly driving the well pump which discharges into the distribution system. Its capacity is the well capacity of $500 \text{ gpm} = 0.72 \text{ MGD}$.

At Unit Well 2, an engine-generator set has sufficient capacity to power the entire station. The station capacity available to satisfy the Emergency Supply criteria is the well capacity ($300 \text{ gpm} = 0.43 \text{ MGD}$) plus the available storage volume. The available storage volume is the lesser of the usable volume or the net pump-out volume, which is the aggregate pump-out capacity minus the well capacity over the one day duration. For the example, the usable volume is 75% of the gross volume ($0.40 \text{ MG} \times 0.75 = 0.30 \text{ MG}$), which is less than the net pump-out volume of $1200 - 300 = 900 \text{ gpm} = 1.30 \text{ MG}$.

Elevated storage available to satisfy the Emergency Supply criteria is that contained in the top 55 feet of head range less 10 percent. For the example, this is $0.25 \times 0.90 = 0.22 \text{ MG}$.

So, for the example, the available Emergency Supply is $0.72 + 0.43 + 0.30 + 0.22 = 1.67$

Surplus capacity = $1.67 - 0.50 = 1.17 \text{ MG}$.

APPENDIX B

Existing Capacity Evaluation

APPENDIX C

Proposed Capacity Evaluations

Pressure Zone Analysis																				
Pressure Zone I.D.		Village of Mukwonago																		
		2018 average and maximum day volumes based on records for 2012, which had hot and dry conditions.																		
Zone Data																				
Average Day Pumpage (MG):		0.86						Total Well Pump Capacity (MGD):						5.04						
Peak Day Pumpage (MG):		1.86						Largest Well Pump Capacity (MGD):						1.44						
Peak Hour/Peak Day ratio		2.00						Total Less Largest Well Pump Capacity (MGD):						3.60						
Fire Flow Rate (gpm):		3500																		
Fire Flow Duration (hr):		3						Well Pump Surplus Capacity (MGD):						1.74						
Elevated tank overflow elevation (ft. amsl):								Surplus Peak Hour Storage (MG):						0.81						
Highest elevation served by tank (ft. amsl):								Surplus Fire Flow Storage (MG):						0.71						
Gross elevated storage volume (MG):		1.00						Surplus Emergency Supply (MGD):						5.33						
Available nonemergency elevated storage volume (MG):		0.66																		
Available emergency elevated storage volume (MG):		0.90																		
Transfer capacity into zone (MGD):								Install radium removal treatment at Well 4.												
Unit Well Data																				
Unit Well I.D. #		3												Gross	Available					
														Repump	Repump		Available Storage Volume			
		WP 1	WP 2	WP 3	SP 1	SP 2	SP 3	SP 4	SP 5	Storage	Storage	Peak Hour	Fire Flow	Emergency						
		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Volume	Volume	Volume						
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MG)	(MG)	(MG)	(MG)	(MGD)						
Normal power		1.22										0.00	0.00							
Emergency power		1.22										0.00			0.00					
Unit Well I.D. #		4												Gross	Available					
														Repump	Repump		Available Storage Volume			
		WP 1	WP 2	WP 3	SP 1	SP 2	SP 3	SP 4	SP 5	Storage	Storage	Peak Hour	Fire Flow	Emergency						
		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Volume	Volume	Volume						
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MG)	(MG)	(MG)	(MG)	(MGD)						
Normal power		1.44			1.22	1.22						0.33	0.25	0.17	0.25					
Emergency power		1.44			1.22	1.22						0.33	0.25			0.25				
Unit Well I.D. #		5												Gross	Available					
														Repump	Repump		Available Storage Volume			
		WP 1	WP 2	WP 3	SP 1	SP 2	SP 3	SP 4	SP 5	Storage	Storage	Peak Hour	Fire Flow	Emergency						
		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Volume	Volume	Volume						
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MG)	(MG)	(MG)	(MG)	(MGD)						
Normal power		1.01										0.00	0.00							
Emergency power		1.01										0.00			0.00					
Unit Well I.D. #		6												Gross	Available					
														Repump	Repump		Available Storage Volume			
		WP 1	WP 2	WP 3	SP 1	SP 2	SP 3	SP 4	SP 5	Storage	Storage	Peak Hour	Fire Flow	Emergency						
		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Volume	Volume	Volume						
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MG)	(MG)	(MG)	(MG)	(MGD)						
Normal power		0.43										0.00	0.00							
Emergency power		0.43										0.00			0.00					
Unit Well I.D. #		7												Gross	Available					
														Repump	Repump		Available Storage Volume			
		WP 1	WP 2	WP 3	SP 1	SP 2	SP 3	SP 4	SP 5	Storage	Storage	Peak Hour	Fire Flow	Emergency						
		Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Capacity	Volume	Volume	Volume						
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MG)	(MG)	(MG)	(MG)	(MGD)						
Normal power		0.94										0.00	0.00							
Emergency power		0.94										0.00			0.00					
The most critical source is Well 5. Water from Wells 5 & 6 normally is blended with that from Wells 3 & 4, which contain radium. If Well 5 is inoperable, only Well 6 is available to blend with Wells 3 & 4. The analysis assumes Well 5 is inoperable, so the combined discharge rates of Wells 3 & 4 is reduced to match remaining Well 6.																				

APPENDIX D

Radium Removal Treatment Cost Analysis

W233 N2080 Ridgeview Parkway • Waukesha, WI 53188-1020 • Tel. (262) 542-5733

TO: Mr. Dave Brown, Utility Director

FROM: Ryan Schultz, P.E.

DATE: February 25, 2019

SUBJECT: Village of Mukwonago – Radium Removal Treatment Cost Analysis

The Village of Mukwonago's water supply system includes five groundwater wells. Wells No. 3 and No. 4 draw water from the deep sandstone aquifer. Wells No. 5, No. 6, and No. 7 draw water from the shallow sand and gravel aquifer. Water pumped from Well No. 3 and Well No. 4 exceeds the maximum contaminant Level (MCL) for radium. Currently, the Village of Mukwonago blends water from Wells No. 5 and Well No. 6 with water from Wells No. 3 and No. 4 to maintain compliance with the radium standard.

A Water System Capacity Analysis completed by Ruekert & Mielke, Inc. in September of 2018 recommended increasing the systems supply capacity by constructing radium removal treatment equipment at Well Station No. 4. The Village of Mukwonago has requested Ruekert & Mielke, Inc. provide budgetary costs for two radium removal treatment alternatives at the existing Well No. 4 site. Alternative No. 1 includes providing radium removal treatment for water pumped from Well No. 4. Alternative No. 2 includes providing radium removal treatment for water pumped from Wells No. 3 and Well No. 4.

Water System Supply Capacity

The Water System Capacity Analysis identified the Village of Mukwonago's current average and projected maximum day pumping volumes to be 0.85 and 1.83 million gallons (mg), respectively. The reliable supply capacity with the most critical well out-of-service is shown in Table 1. Current blending operations do not allow for Well Pumps No. 3 or No. 4 to operate at the same time. As shown in Table 1, the existing water system's reliable supply capacity with either Well Pump No. 3 or Well Pump No. 4 in operation is approximately 1,250 gpm (1.80 mgd). Providing radium removal treatment for Well No. 4 increases the reliable supply capacity to 2,350 (3.38 mgd). Providing radium removal treatment for Wells No. 3 and Well No. 4 would increase the Supply capacity to 2,500 gpm (3.60 mgd).

Radium Removal Treatment Technologies

Four typical treatment methods used for removing radium from drinking water include ion-exchange softening, membrane softening, electrodialysis reversal, and HMO filtration. The membrane softening and electrodialysis treatment processes both have high volumes of

~12-00000 Miscellaneous Project Files > 2019 Miscellaneous Engineering > Radium Removal Treatment Cost Analysis > Brown 20190225 Radium Removal Treatment Cost Analysis.docx~

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
Page 2

concentrate, high power consumption, and high capital costs, and were not considered for use in Mukwonago.

Table 1 – Reliable Supply Capacity with Most Critical Well Out-of-Service

Facility I.D.	Rated Capacity (gpm)	Existing Reliable Supply Capacity gpm (mgd)		Proposed Reliable Supply Capacity gpm (mgd)	
		Well No. 3 Operating	Well No. 4 Operating	Alternative No. 1	Alternative No. 2
				Treating Well No. 4	Treating Wells No. 3 & 4
Well No. 3	850	300(a)		850	850
Well No. 4	1,000		300(a)	Out-of-Service	Out-of-Service
Well No. 5	700	Out-of-Service	Out-of-Service	550(b)	700
Well No. 6	300	300	300	300(b)	300
Well No. 7	650	650	650	650	650
Total	3,500	1,250 (1.80)	1,250 (1.80)	2,350 (3.38)	2,500 (3.60)
Surplus/Deficiency		21 (0.03)	21 (0.03)	1,080 (1.56)	1,230 (1.77)

- (a) Capacity reduced to equal Well No. 6 Capacity
(b) Combined capacity of Well No. 5 and No. 6 equal Well No. 3 Capacity

In the ion-exchange softening, the divalent metal ions that cause hardness, including radium, iron, and manganese, displace sodium from special media. After the sodium has been replaced, the media is regenerated by using high sodium concentrations to reverse the reactions. The advantages of the ion-exchange treatment process are low wastewater generation, low power consumption, ability to reduce hardness, and low operational and maintenance characteristics. The disadvantages of the ion-exchange process are the addition of significant quantities of sodium to the treated water, increased corrosion characteristics of the water, and addition of large quantities of chlorides to the wastewater.

In the preformed HMO filtration process, radium is adsorbed by preformed manganese dioxide and removed by sand filtration. Manganese dioxide can be purchased preformed, preformed in a batch tank by mixing potassium permanganate and manganese sulfate, or formed in-situ by mixing sodium permanganate and manganese sulfate. After injecting the preformed HMO, the well water is passed thru either a sand filter or manganese greensand filter. The typical loading rate for a standard sand filter is 3 gpm/sq. ft. of media. Previous testing has shown increased loading rates of 6-8 gpm/sq.ft. of media will provide adequate treatment when using manganese greensand. Pressure filters used to contain the media can either have a vertical or horizontal configuration. Vertical pressure filters typical require a larger building footprint however, they provide additional redundancy and cost slightly less when compared to horizontal

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
Page 3

pressure filters. Horizontal pressure filters require less of a building footprint but cost slightly more when compared to vertical pressure filters.

The radium and manganese dioxide are removed from the filter by backwashing. The backwash waste is discharged to the sanitary sewer. The advantages of the HMO filtration process are: minimal change to the corrosion characteristics of the water, low wastewater generation, ability to remove iron and manganese, and low operational and maintenance characteristics.

Alternatives

The HMO filtration treatment process was determined to be the most technically and economically feasible treatment process alternative for the Village of Mukwonago. At the request of the Village, two alternative radium removal treatment options were analyzed. Alternative No. 1 consists of providing facilities necessary for removing radium from water pumped from Well No. 4. Alternative No. 2 consists of providing facilities necessary for removing radium from water pumped from Well No. 3 and Well No. 4. The radium removal facilities for both alternatives will be constructed adjacent to Well Station No. 4.

Alternative No. 1

In Alternative No. 1, radium in water pumped from Well No. 4 will be removed using the Hydrous Manganese Oxide (HMO) treatment process. Well Pump No. 4 will pump water from the existing well station to a new masonry building that will house the proposed HMO treatment process equipment. The masonry building will be approximately 35' x 50'. After being filtered, the treated water will be discharged to the existing reservoir adjacent to the well station. The HMO treatment process equipment will include either a horizontal pressure filter or a bank of vertical pressure filters and chemical feed systems to accommodate using either preformed HMO or an in-situ form of HMO. Greensand (pyrolusite media) will be used in the filter to minimize the overall size of the building needed.

A backwash holding tank will be constructed adjacent to the proposed radium removal treatment building. The backwash holding tank will be sized to accommodate two complete backwash cycles. The tank will be sized to store a backwash volume of 50,000 gallons. The backwash holding tank will be approximately 35' x 24' x 10'. A submersible pump will pump backwash waste from the backwash holding tank to the sanitary sewer. The estimated total cost for Alternative No. 1 is summarized in Table 2.

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
Page 4

Table 2 – Alternative No. 1 Estimated Cost Summary

ITEM	COST
Masonry Building	\$656,300
Mechanical Piping	\$116,700
Pressure Filters	\$325,000
Compressed Air System	\$8,000
Chemical Feed System	\$100,000
Backwash Holding Tank	\$137,500
Site Piping	\$70,000
Well Station No. 4 Modifications	\$30,000
Miscellaneous Work (20%)	\$288,700
Total Construction Cost	1,732,200
Pilot Study	\$15,000
PSC/WDNR Authorization	\$8,000
Engineering/Construction Services/Contingencies	\$519,700
SCADA Services	\$30,000
Total Project Cost	\$2,304,900

Alternative No. 2

In Alternative No. 2, radium in water pumped from Well No. 3 and Well No. 4 will be removed using the Hydrous Manganese Oxide (HMO) treatment processes. A new masonry building will be constructed to house two separate HMO treatment system. Each well will discharge to their own dedicated HMO treatment system. Well Pump No. 3 will pump water through an existing dedicated 12-inch water main to the proposed treatment building. Well Pump No. 4 will pump water from the existing well station to the proposed treatment building. The proposed masonry building will be approximately 45' x 50'. After being filtered, the treated water will be discharged to the existing reservoir adjacent to the well station. The HMO treatment process equipment will include either two horizontal pressure filters or two separate banks of vertical pressure filters and two separate chemical feed systems to accommodate using either preformed HMO or an in-situ form of HMO. Greensand (pyrolusite media) will be used in both filters to minimize the overall size of the building needed.

A backwash holding tank will be constructed adjacent to the proposed radium removal treatment building. The backwash holding tank will be sized to accommodate two complete backwash cycles from both treatment systems. The tank will be sized to store a backwash volume of 92,500 gallons. The backwash holding tank will be approximately 45' x 35' x 10'. A

Mr. Dave Brown
Radium Removal Treatment Alternative
February 25, 2019
Page 5

submersible pump will pump backwash waste from the backwash holding tank to the sanitary sewer. The estimated total cost for Alternative No. 2 is summarized in Table 3.

Table 3 – Alternative No. 2 Estimated Cost Summary

ITEM	COST
Masonry Building	\$843,800
Mechanical Piping	\$215,900
Pressure Filters	\$650,000
Compressed Air System	\$12,000
Chemical Feed System	\$200,000
Backwash Holding Tank	\$196,600
Site Piping	\$80,000
Well Station No. 4 Modifications	\$30,000
Miscellaneous Work (20%)	\$445,700
Total Construction Cost	2,674,000
Pilot Study	\$15,000
PSC/WDNR Authorization	\$8,000
Engineering/Construction Services/Contingencies	\$802,200
SCADA Services	\$50,000
Total Project Cost	\$3,549,200



Agenda Item Cover Report

Date: 10-25-22	Committee/Board: Public Works
Submitted by: Wayne Castle	Department: Utilities- Wastewater
Date of Committee Action: 11-2-22	Date of Village Board Action: 11-16-22

Subject:
Award bid for Atkinson Lift Station Project

Executive Summary:

The Atkinson lift station project had been bid out previously this year. We only received one bid that was approximately \$750,000 over our project budget. Since we had only one bid that was not favorable to the project, we rejected the bid. We then consulted with the contractor to see what their schedule of values were. With that information we re-engineered the project in a way that would reduce risk and costs. The biggest item that we removed was the second wet well which in turn reduced a significant amount of excavation that would have been deep and near a road and the lake. We found that we could get by for now without the additional wet well capacity, but it will need to likely be addressed in the future. Project consists of three new submersible pumps which provides additional capacity and redundancy, an additional control building, and abandoning a portion of the existing lift station.

Fiscal Impact:

Project Total of \$1,250,000 funded by approximately \$750,000 in impact fees. If possible, the remaining amount will be funded by reserves. If sufficient reserves are not available, then we may have to borrow for a small portion of this project.

Executive Recommendation/Action:

For the Committee of the Whole to recommend to the Village Board to Award the bid for the Atkinson lift station project.

Attachments Included

- Recommendation of Award – Atkinson Lift Station

October 14, 2022

Ms. Diana Dykstra, CMC
Clerk-Treasurer
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

RE: Atkinson Pump Station Improvements – REBID

Dear Ms. Dykstra:

Bids for the above project were opened on October 13, 2022, at 10:00 a.m. at the Village Hall as listed on the attached Bid Summary.

We reviewed the documentation submitted by the apparent low bidder and found that:

1. The Bid Form has been appropriately completed.
2. We have no objections to the low bidder.
3. Low bidder has successfully completed projects in the Village, and similar projects over the last 15 years according to R/M direct project experience.

On these bases, we recommend that August Winter & Sons, Inc. be awarded the Atkinson Pump Station Improvements - REBID contract, in the amount of \$1,184,000. On all construction projects, and especially complex ones like this, unpredictable factors may increase the final contract amount. For this reason, we recommend that the Village include a 10 percent contingency when preparing the financial plan for this work.

Our review did not include an evaluation of bidder's current financial condition nor of their permanent safety program.

Should you decide to accept our recommendation, we have prepared the enclosed Notice of Award for your use. After Board approval has been received, please have the appropriate official sign where indicated and forward a signed copy of the Notice of Award to our office. We will then fill in the date at the top of page one and forward it, with contracts for execution, to the Contractor. One fully completed Notice of Award will be returned to you for your records.

Bids remain subject to acceptance until December 12, 2022, unless Bidder agrees to an extension. Please advise us of your award decision or call if there are any questions.

Respectfully,

RUEKERT & MIELKE, INC.



Donald J. Heikkila, P.E. (WI, PA)
Project Manager
dheikkila@ruekert-mielke.com
DJH:cal

Encl: Notice of Award
Bid Summary

cc: Fred Schnook, Village of Mukwonago
Wayne Castle, Village of Mukwonago
David W. Arnott, P.E., Ruekert & Mielke, Inc.
Jerad J. Wegner, P.E., Ruekert & Mielke, Inc.

NOTICE OF AWARD

Date of Issuance: _____

Contract: Atkinson Pump Station Improvements - REBID	Owner:	Village of Mukwonago
Bidder: August Winter & Sons, Inc.	Engineer:	Ruekert & Mielke, Inc.
Address: P.O. Box 1896	Engineer's Project No.:	12-10131.221
Appleton, WI 54912-1896		

TO BIDDER:

You are notified that your Bid dated October 13, 2022 for the above Contract has been accepted by Owner and you are the Successful Bidder and are awarded a Contract for:

Atkinson Pump Station Improvements - REBID

The Contract Price of your Contract is: \$1,184,000.00

Two (2) copies of the proposed Contract Documents (except Drawings) accompany this Notice of Award, or have been transmitted or made available to Bidder electronically.

One (1) set of the Drawings will be delivered separately, or otherwise made available to Bidder electronically.

Bidder must comply with the following conditions precedent within 15 days of the date of issuance of this Notice of Award:

1. Deliver to Engineer two (2) fully executed counterparts of the Contract Documents.
2. Deliver with the executed Agreement the Performance Bond, Payment Bond as specified in the Instructions to Bidders (Article 21), and General Conditions (Paragraph 6.01).
3. Deliver with the executed Agreement certificates and other evidence of insurance as specified in the General Conditions (Article 6) and the Supplementary Conditions modifying Article 6 of the General Conditions.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

Within 10 days after you comply with the above conditions, Engineer will return to you one fully executed counterpart of the Agreement.

Owner: VILLAGE OF MUKWONAGO

Signature: _____
Authorized Signature

Title: _____

Date: _____

Copy: Engineer

BID SUMMARY

Atkinson Pump Station Improvements - REBID

Village of Mukwonago, Waukesha County, Wisconsin

Bids Open: October 13, 2022, 10:00 a.m.

CONTRACTOR	Bid Bond	Addendum 1	Addendum 2	BASE BID
August Winter & Sons	X	X	X	\$1,184,000.00
Staab Construction Corp.	X	X	X	\$1,267,000.00
Mid City Corporation	X	X	X	\$1,717,000.00

APPARENT LOW BID:	\$1,184,000.00
APPARENT LOW BIDDER:	August Winter & Sons

RUEKERT & MIELKE, INC.
W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

October 26, 2022

Mr. Fred Winchowky
Village President
Village of Mukwonago
440 River Crest Court
Mukwonago, WI 53149

Re: Minor's Estates 4 – Phase 2
Letter of Credit Reduction #1

Dear President Winchowky:

We received a request to have the current Letter of Credit reduced for the Minor's Estates 4 – Phase 2 development in the Village. The request was received in our office on October 25, 2022. The request included a letter from the Developer, lien waivers for Contractors performing parts of the work associated with the requested reduction, and a detailed breakdown request by category of work.

The current Letter of Credit for the site is in the amount of \$361,972.36 and the Developer is requesting a reduction of \$237,609.38 to a new Letter of Credit balance of **\$124,362.98**. We've reviewed the request and the work completed for which the request is associated with and recommend that current Letter of Credit be reduced as stated and as described in the attached documents.

If you or any staff or board member should have any questions regarding this, please feel free to contact me at (262) 542-5733.

Respectfully,

RUEKERT & MIELKE, INC.



Peter W. Gesch, P.E. (WI)
Project Engineer
pgesch@ruekert-mielke.com

PWG:pwg

Enclosure(s)

cc: Fred Schnook, Village of Mukwonago
Diana Dykstra, Village of Mukwonago
Linda Gourdoux, Village of Mukwonago
Tim Rutenbeck, Village of Mukwonago
Nathan Bayer, Village of Mukwonago
Wayne Castle, Village of Mukwonago
Ron Bittner, Village of Mukwonago
Tim Schwecke, Village of Mukwonago
Jerad J. Wegner, P.E., Ruekert & Mielke, Inc.



HOMES • LAND • INVESTMENTS

October 25, 2022

Jerad Wegner
Ruekert & Mielke
W233 N2080 Ridgeview Parkway
Waukesha, WI 53188-1020

RE: Minor's Estates Phase 2 - Letter of Credit Reduction #1

Dear Mr. Wegner:

On behalf of Minor's Estates Investments LLC please accept this request for the Village of Mukwonago Engineer to inspect the completed improvements in Minor's Estates Phase 2 and recommend to reduce the letter of credit per the costs outlined below:

Letter of Credit Balance	\$361,972.36
-Less Requested Reductions-	
Grading & Erosion Control	\$85,088.13
Road Paving	\$152,521.25
Total Reduction	\$237,609.38
Letter of Credit Balance Remaining	\$124,362.98

Enclosed herewith are copies of pay applications and lien waivers from Rams Contracting, Ltd. and Stark Pavement Corp. Also enclosed is a letter of credit worksheet which tracks the letter of credit draws and balances. Please review this request and, if possible, include the letter of credit reduction on the November 2nd Public Works and November 16th Village Board agendas for review and action. If you have any questions or concerns regarding this request, please call me at (262) 424-5997. Thank you for your assistance with this request.

Respectfully Submitted,

Joseph A. Bukovich, P.E.
Owner's Authorized Representative

Enclosures

Cc: Diana Dykstra, Village of Mukwonago
Peter Gesch, Ruekert & Mielke
Mukwonago - Minor's Estates/Loan/Minor's Estates Phase 2 Letter of Credit Reduction Request #1 10-25-22.docx

APPLICATION AND CERTIFICATE FOR PAYMENT AIA DOCUMENT G702

TO: Minor's Estates Investments LLC

PROJECT: Minor's Estates Phase II

FROM: Rams Contracting, LTD.
PO Box 398
Lannon, WI 53046

SUBCONTRACT:

Application Number: 202241-01
Period to: 10/20/2022
Contract date: 08/10/2022

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.

Continuation sheet, AIA Document G703, is attached.

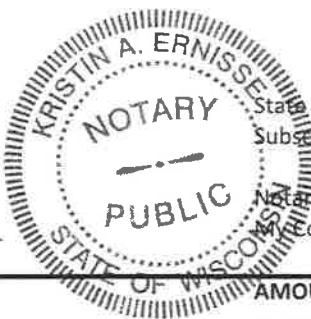
CHANGE ORDER SUMMARY		
Change Orders Approved in previous months by Owner	ADDITIONS	DEDUCTIONS
TOTAL	\$0.00	\$0.00
Approved this month		
Number	Date Approved	
TOTAL	\$0.00	\$0.00
Net Change by Change Orders	\$0.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: RAMS CONTRACTING, LTD.

By: [Signature] Date: 10/21/2022

1. ORIGINAL CONTRACT SUM	\$132,350.63
2. NET CHANGE BY CHANGE ORDERS	\$0.00
3. CONTRACT SUM TO DATE (LINE 1 & 2)	\$132,350.63
4. TOTAL COMPLETED & STORED TO DATE (Column F on G703)	\$132,350.63
5. RETAINAGE	
a. _____ of Completed Work (Column D+E on G703)	\$0.00
b. _____ of Stored Material	\$0.00
Total retainage (line 5a + 5b)	\$0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)	\$132,350.63
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$0.00
8. CURRENT PAYMENT DUE	\$132,350.63
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)	\$0.00



State of: Wisconsin County of: Waukesha
Subscribed and sworn to before me the 21st day of October 2022
Notary Public: [Signature]
My Commission Expires: 03/29/2023

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED

\$ 132,350.63

(Attach explanation if amount certified differs from the amount applied for.)

ARCHITECT:

By: Joseph L. Buldini Date: 10/25/22

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

PROJECT NAME: Minor's Estates Phase II

APPLICATION NUMBER: 202241-01
 APPLICATION DATE: 10/21/2022
 PERIOD FROM: 08/10/2022
 PERIOD TO: 10/20/2022

A	B	C			D	E	F	G	H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL SCHEDULE OF VALUES	CONTRACT ADJUSTMENTS	REVISED SCHEDULE OF VALUES	PREVIOUS EARNED	EARNED THIS PERIOD	TOTAL COMPLETED TO DATE	PERCENT COMPLETE	BALANCE TO FINISH	RETAINER
1	Erosion control, mobilization, supervision	\$15,655.00	\$0.00	\$15,655.00	\$0.00	\$15,655.00	\$15,655.00	100.00%	\$0.00	\$0.00
2	Strip topsoil	\$14,658.84	\$0.00	\$14,658.84	\$0.00	\$14,658.84	\$14,658.84	100.00%	\$0.00	\$0.00
3	Finish grading	\$9,386.00	\$0.00	\$9,386.00	\$0.00	\$9,386.00	\$9,386.00	100.00%	\$0.00	\$0.00
4	Cut/fill	\$10,570.08	\$0.00	\$10,570.08	\$0.00	\$10,570.08	\$10,570.08	100.00%	\$0.00	\$0.00
5	We Energies clean up	\$5,640.00	\$0.00	\$5,640.00	\$0.00	\$5,640.00	\$5,640.00	100.00%	\$0.00	\$0.00
6	Topsoil, restoration	\$29,178.21	\$0.00	\$29,178.21	\$0.00	\$29,178.21	\$29,178.21	100.00%	\$0.00	\$0.00
7	Asphalt base course	\$47,262.50	\$0.00	\$47,262.50	\$0.00	\$47,262.50	\$47,262.50	100.00%	\$0.00	\$0.00
TOTALS		\$132,350.63	\$0.00	\$132,350.63	\$0.00	\$132,350.63	\$132,350.63	100.00%	\$0.00	\$0.00

GRADING
\$85,088.13
ROAD PAVING

**CONDITIONAL WAIVER AND RELEASE
UPON FINAL PAYMENT**

Upon receipt of undersigned of a check from

Minor's Estates Investments, LLC.

(Maker of Check)

in the sum of \$ 132,350.63 payable to Rams Contracting, LTD.
(Amount of Check) (Payee or Payees of Check)

and when check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release any mechanic's lien, stop notice, or bond right the undersigned has on the job of

Minor's Estates Investments, LLC.

(Owner)

located at Minor's Estates II, Mukwonago, WI
(Job Description)

to the following extent.

This release covers a final payment for labor, services, equipment or materials furnished to

Minor's Estates Investments, LLC.

(Name)

through

FINAL

(Date)

only. Rights based upon work performed or items furnished under a written change order which has been fully executed by the parties prior to the release date are covered by this release unless specifically reserved by the claimant in this release. This release of any mechanic's lien, stop notice, or bond right shall not otherwise affect the contract rights, including rights between parties to the contract based upon rescission, abandonment, or breach of the contract, or the right of the undersigned to recover compensation for furnished labor, services, equipment, or material covered by this release if that furnished labor, services, equipment, or material was not compensated by the final payment. Before any receipt of this document relies on it, said party should verify evidence of payment to the undersigned.

Company: Rams Contracting, LTD.
(Company Name)

By: 
(Signature)
Steve Schlei, Accountant
(Name and Title)

Date: 10/21/2022

NOTE: This form complies with the requirements of Wisconsin Civil Code. It is to be used by a party who applies for a progress payment when the progress payment check has not yet cleared the bank.

APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF 2 PAGES

TO OWNER: Minor Estates Investments, LLC

APPLICATION NO: 1

Distribution to:

PROJECT: Minor Estates
Phase 2
☐ OWNER
☒ GENERAL CONTRACTOR
☐ ARCHITECT
☐ CONTRACTOR
☐
☐

PERIOD TO: 10/15/2022

FROM CONTRACTOR:

VIA ARCHITECT:

Stark Pavement Corp.
 18245 W Burleight Rd.
 Brookfield, WI 53005

PROJECT NOS:

PROJECT NO:

CONTRACT DATE: 8/4/2022

CONTRACT FOR: Asphalt, Concrete Curb and Gutter

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.
 Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 199,355.50
 2. Net change by Change Orders \$ 0.00
 3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 199,355.50
 4. TOTAL COMPLETED & STORED TO DATE \$ 154,664.00
 (Column G on G703)

5. RETAINAGE:
 a. 10 % of Completed Work \$ 15,466.40
 (Column D + E on G703)
 b. % of Stored Material \$ 0.00
 (Column F on G703)
 Total Retainage (Lines 5a + 5b or
 Total in Column I of G703) \$ 15,466.40

6. TOTAL EARNED LESS RETAINAGE \$ 139,197.60
 (Line 4 Less Line 5 Total)
 7. LESS PREVIOUS CERTIFICATES FOR
 PAYMENT (Line 6 from prior Certificate) \$ 0.00
 8. CURRENT PAYMENT DUE \$ 139,197.60
 9. BALANCE TO FINISH, INCLUDING RETAINAGE
 (Line 3 less Line 6) \$ 60,157.90

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$0.00	\$0.00
Total approved this Month	\$0.00	\$0.00
TOTALS	\$0.00	\$0.00
NET CHANGES by Change Order		\$0.00

The undersigned Contractor certifies that to the best of the Contractor's knowledge,
 information and belief the Work covered by this Application for Payment has been
 completed in accordance with the Contract Documents, that all amounts have been paid by
 the Contractor for Work for which previous Certificates for Payment were issued and
 payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Stark Pavement Corporation

By: Thomas P Skellon Date: October 20, 2022

Thomas P Skellon - Vice President of Finance

State of: Wisconsin

County of: Waukesha

Subscribed and sworn to before me this 20 Day of October-22

Notary Public:

My Commission expires: 3/22/2024

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data
 comprising the application, the Architect certifies to the Owner that to the best of the
 Architect's knowledge, information and belief the Work has progressed as indicated,
 the quality of the Work is in accordance with the Contract Documents, and the Contractor
 is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 139,197.60

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this
 Application and on the Continuation Sheet that are changed to conform with the amount certified.)
 ARCHITECT:

By: Joseph A. Bubrick Date: 10/23/22

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the
 Contractor named herein. Issuance, payment and acceptance of payment are without
 prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 2 OF 2 PAGES

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing

Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

PROJECT: Minor's Estates Phase 2

APPLICATION NO: 1

APPLICATION DATE: 20-Oct-22

PERIOD TO: 15-Oct-22

GENERAL CONTRACTOR'S PROJECT NO:

PROJECT NO: 229606

[illegible]



12845 W Burleigh Road
Brookfield, WI 53005
414-466-0644

PARTIAL WAIVER OF LIEN

DATE: October 24, 2022

For value received to date we hereby waive partial rights and claim for lien on land and on buildings about to be erected, being erected, erected, altered, or repaired and to the appurtenances thereunto,

For: Minor Estates Phase 2 Owner Minor's Estates Investment, LLC

By: Stark Pavement Corporation Contractor for Site Concrete, Curb and Gutter in the amount of \$ 139,197.60 One Hundred Thirty-Nine Thousand One Hundred Ninety-Seven Dollars and 60/cents same being situated in Waukesha County, State of Wisconsin, described as:

Minor Estates Phase 2
CTH I – N. of Valhalla Drive
Mukwonago, WI 53149

for all labor performed and for all material furnished for the erection, construction, alteration, or repair of said building and appurtenances, except: Contract balance

Stark Pavement Corporation

Company Name

A handwritten signature in black ink, appearing to read "F. H. [unclear]", is written over a horizontal line.

Signature

President

Title

Minor's Estates Phase 2 Letter of Credit

		BEGINNING	Reduction #1							
ITEM		BID LOC	10/25/22	Reduction #2	Reduction #3	Reduction #4	Reduction #5	Reduction #6	BALANCE	
1	Grading and erosion control	\$ 85,088.13	\$ 85,088.13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	Road paving incl. stone base, curb, binder & sidewalk	\$ 159,976.75	\$ 152,521.25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,455.50	\$ 7,455.50
3	Surface course paving	\$ 39,378.75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,378.75	\$ 39,378.75
4	Street trees (43 Ph. 2 trees)	\$ 17,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,200.00	\$ 17,200.00
5	Contingency (20%)	\$ 60,328.73	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,328.73	\$ 60,328.73
TOTAL		\$ 361,972.36	\$ 237,609.38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 124,362.98	\$ 124,362.98

Notes:

Guarantee for improvements expires



Agenda Item Cover Report

Date:	Committee/Board:
Submitted by:	Department:
Date of Committee Action:	Date of Village Board Action:

Subject:
Executive Summary:
Fiscal Impact:
Executive Recommendation/Action:

☐ Attachments Included

Village of Mukwonago, WI
Friday, October 28, 2022

Chapter 74. Streets, Sidewalks and Other Public Places

Article I. In General

§ 74-7. Obstructions and encroachments.

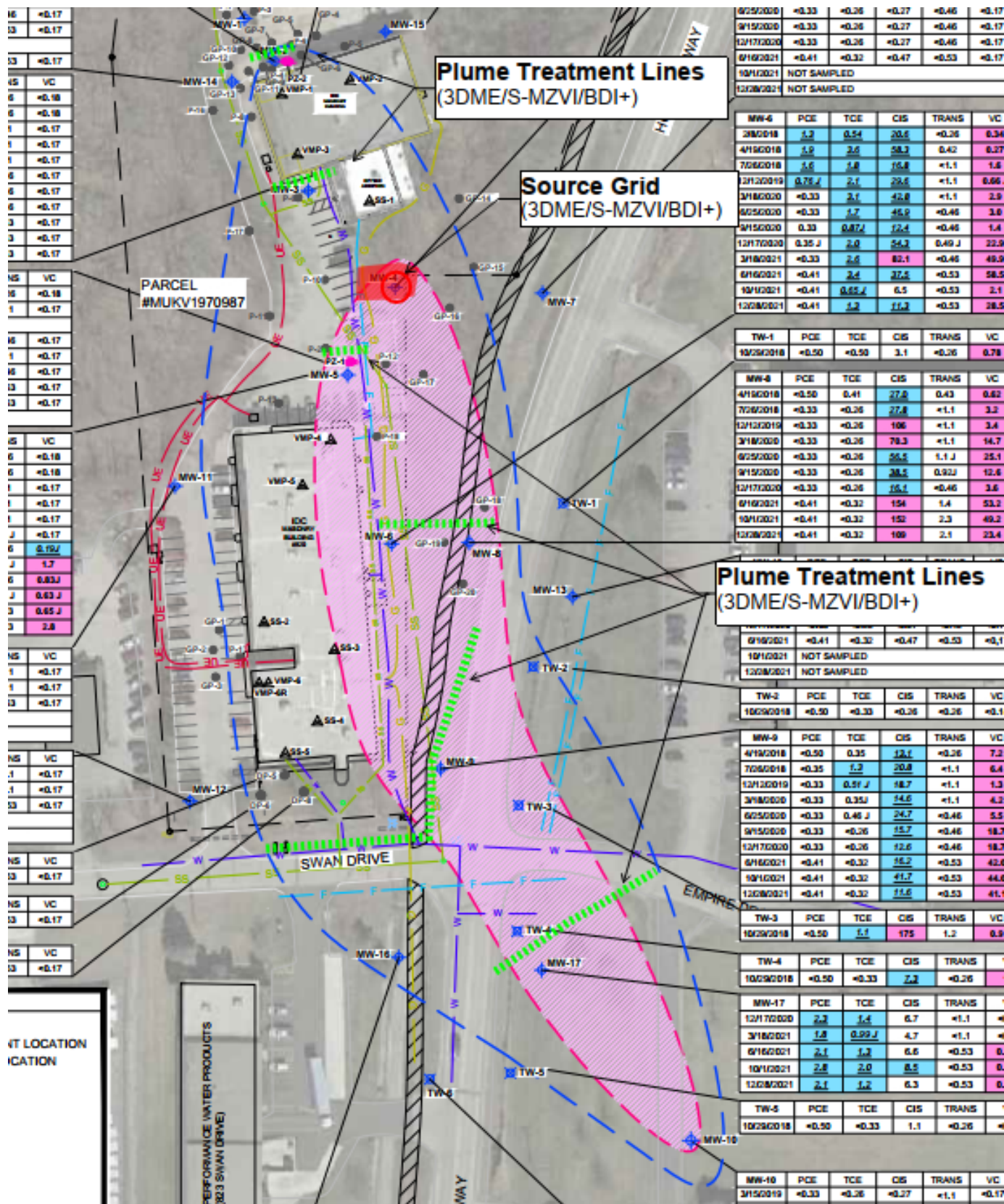
[Ord. No. 880, § I, 9-16-2014; amended 3-18-2020 by Ord. No. 976]

- (a) Prohibited. No person shall encroach upon or in any way obstruct or encumber any street, alley, sidewalk, public grounds or land dedicated to public use, or any part thereof, or permit such encroachment or encumbrance to be placed or remain on any public right-of-way adjoining the premises of which he is the owner or occupant, except as provided in Subsection (b) of this section.
- (b) Exceptions. The prohibitions of Subsection (a) of this section shall not apply to the following:
 - (1) Awnings which do not extend below any point seven feet above the sidewalk, street or alley.
 - (2) Public utility encroachments duly authorized by state law or the Village Board.
 - (3) Goods, wares, merchandise or fixtures being loaded or unloaded which do not extend more than three feet on the sidewalk, provided such goods, wares, etc., do not remain thereon for a period of more than two hours.
 - (4) Temporary encroachments or obstructions authorized by permit under Subsection (c) of this section.
 - (5) Excavations and openings permitted under § 74-6.
 - (6) Encroachments permitted under § 74-7(c)(2).
- (c) Right-of-way permit. A right-of-way permit may be issued according to the following conditions:
 - (1) Required. Permits for the use of the streets, alleys, sidewalks or other public rights-of-way or places of the Village may be granted to applicants by the Director of Public Works or designee for the purpose of moving any building or structure or of encumbering the street, alley, sidewalk or way with materials necessary in and about the construction or demolition of any building or structure, provided such applicant has complied with the other requirements of this subsection and has obtained a building permit if required by Chapter 18.
 - (2) Poles not to be erected without permission.
 - a. Before any person shall erect any telephone, wireless facilities and/or equipment, utility, electric, or railway poles or posts upon any street or alley, a permit application shall be submitted to the Director of Public Works or designee with the route/location of his proposed lines/poles or any extension showing, as far as practicable, the location of each pole or post and the number and location of any related wires. No such pole or post shall be erected until written permission shall be obtained from the Director of Public Works or designee.

- b. Whenever in the judgment of the Director of Public Works or designee the use of any alley for the purpose of erecting the poles or posts mentioned in Subsection (c)(2)a of this section is practicable, such poles or posts shall be placed upon and along the alley instead of upon and along a public street. When such poles or posts are set in any alley, they shall be located as near as practicable to the side lines, and in such manner as not unreasonably to incommode the public or the adjoining property owner. Whenever such poles or posts are erected in a street, they shall be placed, unless otherwise directed by the Director of Public Works or designee, on the outer edge of the sidewalk just inside of the curb and on the line dividing the lots one from another, but shall not be so placed as to unreasonably incommode the public or the adjoining property owner, or to disturb the drainage of the street, or interfere with or damage the trees or other public or private property on the line of such street or alley unless the written consent of the Director of Public Works or designee shall have been obtained.
- c. Whenever any street on which any of such poles or posts have been set shall be graded or paved, all poles or posts shall be reset immediately so as to conform to the street as reconstructed, and the owner shall immediately put in order all those parts of the streets, alleys, sidewalks, or public grounds so used. Any expense related to the resetting poles shall be the sole responsibility of the pole owner.
- d. All new telephone, small wireless facilities and/or equipment, utility, electric or railway poles or posts and related equipment shall be fabricated using all metal materials and shall be powder coated in bronze, brown, silver or black matte paint finish. Alternate colors and/or materials, proposed in order to better coordinate with the surrounding views, buildings, or environmental may be considered and/or approved by review and/or action of the Village Administrator.
- e. The maximum height of any telephone, small wireless facilities and/or equipment, utility, electric, or railway poles or posts in the right-of-way shall be 50 feet above ground level at the base of the structure or 10 feet above the tallest existing (existing as of the effective date of this section) telephone, small wireless facilities and/or equipment, utility, electric or railway poles or posts, structures located in the same right-of-way and within 500 feet of the proposed new facility, whichever is greater.
- f. All poles placed in the public right-of-way must be at least 25 feet from center line to center line of any other support structure, tower, pole or post in the public right-of-way unless specifically waived or modified by the Village Administrator due to unique and limiting circumstances of the specific proposed location.
- g. In order to conceal the nonantenna equipment and to preserve the limited space available for vehicle and pedestrian traffic, applicants proposing any new installation in/upon the public way shall install all nonpole, -post, -lighting, and -antenna equipment underground to the maximum extent feasible. Additional expense to install and maintain an underground equipment enclosure does not exempt an applicant from this requirement, except where the applicant demonstrates by clear and convincing evidence that this requirement will effectively prohibit the provision of personal wireless services. Nothing in this subsection is intended to require the applicant to install any electric meter required by the applicant's electrical service provider underground.
- h. To the extent that any equipment cannot be placed underground as required above, the applicants shall install ground-mounted equipment in a location that does not obstruct pedestrian or vehicular traffic. The Village may require landscaping or other concealment as a condition of approval to conceal ground-mounted equipment. Ground-mounted equipment shall not be permitted in connection with a streetlight, traffic signal, utility pole or other similar infrastructure in the public right-of-way. In the event that the Village approves ground-mounted equipment, the applicant shall conform to the following requirements:

1. Self-contained cabinet or shroud. The equipment shroud or cabinet shall contain all the equipment associated with the facility other than the antenna. All cables and conduits associated with the equipment shall be concealed from view.
2. Concealment. The Village may require the applicant to incorporate concealment elements into the proposed design, including but not limited to public art displayed on the cabinet, strategic placement in a less-obtrusive location and placement within existing or replacement street furniture.
3. No ground-mounted equipment shall be permitted closer than five feet to the edge of the public right-of-way.
- (3) Bond. No right-of-way permit shall be issued until the applicant shall execute and file with the Village Clerk a bond in an amount determined by the Director of Public Works or designee, conditioned that the applicant will indemnify and save harmless the Village from all liability for accidents or damage caused by reason of operations under such permit, will remove such encumbrance upon termination of the operations, will leave the vacated premises in a clean and sanitary condition, and repair any and all damage to the streets, alleys, sidewalks or public property of the Village resulting from such building or moving operations.
- (4) Fee. The fee for a right-of-way permit shall be as set forth in the most-current Village Board resolution approving the annual fee schedule.
- (5) Conditions of occupancy. The permission to occupy or obstruct the streets, alleys, sidewalks or public grounds is intended only for use in connection with the actual erection, alteration, repair, removal of buildings or structures and, with the exception of encroachments permitted under § 74-7(c)(2), shall be given upon the following terms and conditions and subject to revocation without notice by the Director of Public Works or designee for violation thereof:
 - a. Such temporary obstruction shall cover not more than 1/3 of any street or alley.
 - b. Obstructions shall be sufficiently lighted at night so as to be in full view of the public from all directions.
 - c. Sidewalk traffic shall not be interrupted, but temporary sidewalks of not less than four feet in width guarded by a closed fence at least four feet high on both sides may be maintained during the period of occupancy.
 - d. The process of moving any building or structure shall be as continuous as practicable until completed and, if ordered by the Director of Public Works or designee, shall continue during all hours of the day and night.
 - e. No building or structure shall be allowed to remain overnight on any street crossing or intersection or so near thereto as to prevent easy access to any fire hydrant.
 - f. Buildings shall be moved only in accordance with the route prescribed jointly by the Director of Public Works or designee and the appropriate representative of the Village Police Department.
 - g. Upon termination of the work necessitating such obstruction, all parts of the streets, alleys, sidewalks or public grounds occupied under the permit shall be vacated, cleaned of all rubbish and obstructions and placed in a safe condition for public travel at the expense of the permittee.
- (6) Termination. All right-of-way permits shall automatically terminate at the end of three months from the date of issuance unless an earlier termination date is specified thereon at the direction of the Supervisor of Inspections or Director of Public Works or designee.
- (7) Removal by Village. In addition to any other penalty imposed, if the owner or occupant of the premises adjoining an unlawfully obstructed sidewalk shall refuse or neglect to remove such obstruction within 24 hours after notice from the Director of Public Works or designee to do so,

it shall be the duty of the Director of Public Works or designee to cause/order the removal of such obstruction and make return of the cost and expense thereof to the Village Clerk who shall enter such cost on the next annual tax roll as a special charge against the property abutting each obstructed sidewalk, and such sum shall be levied and collected as other special taxes against real estate.



Instrument Development Corp.

Figure 1: Treatment Map

Terracon

September 2, 2022

MW-1	PCE	TCE	CIS	TRANS	VC
2/8/2018	FROZEN WELL				
4/19/2018	<0.50	<0.33	<0.26	<0.26	<0.18
7/26/2018	<0.26	<0.26	<0.26	<0.27	<0.17
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	NOT SAMPLED				
6/25/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
3/18/2021	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	<0.41	<0.32	<0.47	<0.53	<0.17
12/28/2021	<0.41	<0.32	<0.47	<0.53	<0.17
8/17/2022	<0.41	<0.32	<0.47	<0.53	<0.17

MW-2	PCE	TCE	CIS	TRANS	VC
2/8/2018	264	5.6	<0.51	<0.51	<0.35
4/19/2018	3,880	48.0	3.6	<0.51	<0.35
7/26/2018	3,530	53.6	6.1	<2.2	<0.35
12/12/2019	132	18.6	33.2	<1.1	3.2
3/18/2020	306	10.8	4.0J	<5.5	<0.17
6/25/2020	102	18.6	5,000	<4.6	100
9/15/2020	0.84J	<0.26	8.5	<0.46	3.2
12/17/2020	1.0J	<0.26	1.0	<0.46	<0.17
3/18/2021	1.3	0.48J	12.5	<0.46	3.8
6/16/2021	1.3	<0.32	<0.47	<0.53	0.99J
10/1/2021	0.99J	0.46 J	1.3	<0.53	1.1
12/28/2021	<0.41	0.33 J	<0.47	<0.53	1.5
8/17/2022	0.56J	0.46J	0.56J	<0.53	3.8

MW-14	PCE	TCE	CIS	TRANS	VC
12/12/2019	3.9	1.0	3.1	<1.1	<0.17
3/18/2020	<0.33	1.0J	4.3	<1.1	<0.17
6/25/2020	0.40 J	<0.26	0.80 J	<0.46	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	<0.41	0.41 J	3.4	<0.53	<0.17

MW-3	PCE	TCE	CIS	TRANS	VC
2/8/2018	17.5	1.7	4.3	<0.26	<0.18
4/19/2018	<0.50	<0.33	0.65	<0.26	<0.18
7/26/2018	1.1	<0.26	1.2	<1.1	<0.17
12/12/2019	<0.33	<0.26	1.0	<1.1	<0.17
3/18/2020	<0.33	<0.26	0.93J	<1.1	<0.17
6/25/2020	<0.33	<0.26	1.7	<0.46	<0.17
9/15/2020	<0.33	<0.26	2.3	<0.46	<0.17
12/17/2020	<0.33	<0.26	2.0	<0.46	<0.17
6/16/2021	<0.41	<0.32	3.2	<0.53	<0.17
10/1/2021	<0.41	<0.32	2.0	<0.53	<0.17
12/28/2021	<0.41	<0.32	1.1	<0.53	<0.17
8/17/2022	<0.41	<0.32	3.1	<0.53	66.9

PZ-1	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	<0.33	<0.26	<0.26	<0.18
7/26/2018	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	NOT SAMPLED				
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2021	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	<0.41	<0.32	<0.47	<0.53	<0.17
12/28/2021	NOT SAMPLED				

MW-5	PCE	TCE	CIS	TRANS	VC
2/8/2018	5.4	2.1	13.9	<0.26	<0.18
4/19/2018	6.2	3.1	17.4	<0.26	<0.18
7/26/2018	7.4	5.4	23.5	<1.1	<0.17
12/12/2019	2.8	3.2	20.6	<1.1	<0.17
3/18/2020	3.3	3.4	18.5	<1.1	<0.17
6/25/2020	3.4	4.3	28.1	0.63 J	<0.17
9/15/2020	0.88J	3.3	18.0	<0.46	0.19J
12/17/2020	2.7	5.3	44.4	0.47 J	1.7
3/18/2021	2.9	5.4	41.1	<0.46	0.83J
6/16/2021	2.9	7.4	53.0	0.74 J	0.63 J
10/1/2021	0.63J	1.9	14.5	<0.53	0.65 J
12/28/2021	0.70J	1.6	40.4	<0.53	2.8
8/17/2022	<0.41	2.7	111	1.1	13.0

MW-11	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

MW-12	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

DP-5	PCE	TCE	CIS	TRANS	VC
4/9/2021	0.73 J	<0.32	<0.47	<0.53	<0.17

DP-6	PCE	TCE	CIS	TRANS	VC
4/9/2021	<0.41	<0.32	<0.47	<0.53	<0.17

PZ-2	PCE	TCE	CIS	TRANS	VC
12/12/2019	2.2	<0.26	<0.27	<1.1	<0.17
3/18/2020	0.89J	0.60J	0.46 J	<1.1	<0.17
6/25/2020	<0.33	0.57 J	3.8	<0.46	<0.17
9/15/2020	2.7	0.73J	3.8	<0.46	<0.17
12/17/2020	2.7	0.30 J	1.6	<0.46	<0.17
3/18/2021	0.55 J	<0.26	1.1	<0.46	<0.17
6/16/2021	<0.41	<0.32	1.1	<0.53	<0.17
10/1/2021	0.44 J	<0.32	1.0	<0.53	<0.17
12/28/2021	0.74 J	0.37 J	<0.47	<0.53	<0.17
8/17/2022	0.99 J	<0.32	0.71 J	<0.53	<0.17

MW-15	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
12/17/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	<0.41	<0.32	<0.47	<0.53	<0.17

MW-4	PCE	TCE	CIS	TRANS	VC
2/8/2018	<0.50	0.37	54.3	0.47	4.4
4/19/2018	<0.50	0.46	60.8	0.55	4.8
7/26/2018	<0.33	0.99	132	<1.1	3.8
12/12/2019	<0.33	1.0	133	<1.1	16.8
3/18/2020	<0.33	1.4	105	<1.1	11.2
6/25/2020	<0.33	0.96J	133	1.1 J	12.2
9/15/2020	<0.33	0.85J	265	1.2J	31.4
12/17/2020	<0.33	0.30 J	208	1.4 J	21.5
3/18/2021	<0.33	1.2	205	1.2J	23.3
6/16/2021	<0.41	3.4	346	1.9	31.8
10/1/2021	<0.41	0.89J	185	0.87 J	11.8
12/28/2021	<0.41	0.33 J	526	3.4	75.8
8/17/2022	<0.41	1.2	607	4.0	242

MW-7	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.33	<0.26	<0.26	<0.18
7/26/2018	<0.33	<0.26	<0.27	<1.1	<0.17
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
6/25/2020	<0.33	<0.26	<0.27	<0.46	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

MW-6	PCE	TCE	CIS	TRANS	VC
2/8/2018	1.3	0.54	20.6	<0.26	0.34
4/19/2018	1.9	3.6	58.3	0.42	0.27
7/26/2018	1.6	1.8	16.8	<1.1	1.6
12/12/2019	0.76J	2.1	29.6	<1.1	0.66 J
3/18/2020	<0.33	3.1	42.8	<1.1	2.9
6/25/2020	<0.33	1.7	46.9	<0.46	3.0
9/15/2020	0.33	0.87J	12.4	<0.46	1.4
12/17/2020	0.35 J	2.0	54.3	0.49 J	22.9
3/18/2021	<0.33	2.6	82.1	<0.46	49.9
6/16/2021	<0.41	3.4	37.5	<0.53	58.5
10/1/2021	<0.41	0.65J	6.5	<0.53	2.1
12/28/2021	<0.41	1.3	11.3	<0.53	28.5
8/17/2022	<0.41	1.3	129	0.18 J	163

TW-1	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.50	3.1	<0.26	0.78

MW-8	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.41	27.0	0.43	0.62
7/26/2018	<0.33	<0.26	27.8	<1.1	3.2
12/12/2019	<0.33	<0.26	106	<1.1	3.4
3/18/2020	<0.33	<0.26	70.3	<1.1	14.7
6/25/2020	<0.33	<0.26	56.5	1.1 J	25.1
9/15/2020	<0.33	<0.26	38.5	0.92J	12.6
12/17/2020	<0.33	<0.26	16.1	<0.46	3.6
6/16/2021	<0.41	<0.32	154	1.4	53.2
10/1/2021	<0.41	<0.32	152	2.3	49.2
12/28/2021	<0.41	<0.32	109	2.1	23.4
8/17/2022	<0.41	<0.32	321	3.8	82.1

MW-13	PCE	TCE	CIS	TRANS	VC
12/12/2019	<0.33	<0.26	<0.27	<1.1	<0.17
3/18/2020	<0.33	<0.26	<0.27	<1.1	<0.17
9/15/2020	<0.33	<0.26	<0.27	<0.46	<0.17
12/17/2020	<0.33	<0.26	<0.27	<0.46	<0.17
6/16/2021	<0.41	<0.32	<0.47	<0.53	<0.17
10/1/2021	NOT SAMPLED				
12/28/2021	NOT SAMPLED				

TW-2	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.33	<0.26	<0.26	<0.18

MW-9	PCE	TCE	CIS	TRANS	VC
4/19/2018	<0.50	0.35	13.1	<0.26	7.2
7/26/2018	<0.35	1.3	20.8	<1.1	6.4
12/12/2019	<0.33	0.51 J	18.7	<1.1	1.3
3/18/2020	<0.33	0.35J	14.6	<1.1	4.2
6/25/2020	<0.33	0.46 J	24.7	<0.46	5.5
9/15/2020	<0.33	<0.26	15.7	<0.46	18.7
12/17/2020	<0.33	<0.26	12.6	<0.46	18.7
6/16/2021	<0.41	<0.32	16.2	<0.53	42.6
10/1/2021	<0.41	<0.32	41.7	<0.53	44.6
12/28/2021	<0.41	<0.32	11.6	<0.53	41.1
8/17/2022	<0.41	<0.32	73	0.58J	141

TW-3	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	1.1	175	1.2	0.9

TW-4	PCE	TCE	CIS	TRANS	VC
10/29/2018	<0.50	<0.33	7.3	<0.26	