



AGENDA OF THE IMPROVEMENT AND SERVICES COMMITTEE

WEDNESDAY, DECEMBER 14, 2022, 5:00 PM
Immediately following Parks Committee.

In person at City Hall, Room 207
Virtual attendance also available via Zoom.

A. Roll Call.

1. This item contains Zoom information, instructions, and a link to the Virtual Comment Form.

B. Approval of the Agenda.

C. Approval of Minutes.

D. Regular Business.

1. Consideration with possible action on the 2023 proposed vegetation maintenance at the City's stormwater ponds and facilities.
2. Consideration with possible action on a request by Department of Public Works to adopt the Proposed 2023 Sanitary Sewer Rates.
3. Consideration with possible action on a request by Department of Public Works to adopt the Proposed 2023 Storm Sewer Rates.

E. Informational.

1. Director's Report on recent activities of the Public Works Department.
2. The next Improvement & Services Committee meeting is scheduled for January 11, 2023.

F. Public Hearings.

G. Adjournment.

- 1) THIS MEETING IS RECORDED: THE VIDEO OF THIS MEETING AND MINUTES ARE AVAILABLE ONLINE AT www.greenbaywi.gov
- 2) ACCESSIBILITY: Any person wishing to attend who requires special accommodation because of a disability, should contact the City Safety Manager at 920-448-3125 at least 48 hours before the scheduled meeting time so that arrangements can be made.
- 3) QUORUM: Please take notice that a majority or quorum of the Common Council will attend this Improvement and Services Committee meeting and will constitute a meeting of the Common Council for purposes of discussion and information gathering relative to this agenda.
- 4) REPRESENTATION: The party requesting the communication, or their representative, should be present at this meeting.

Virtual Meeting Instructions



Improvement and Services Committee

Zoom Meeting Information

Join Zoom Meeting

<https://us02web.zoom.us/j/82206544400?pwd=NDdlbmNzNUhBWVU5ck1zMjZQT09>

Meeting ID: 822 0654 4400

Passcode: 635662

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Public Comments

If you wish to speak at this public meeting or leave a comment, please fill out the online [Comment Form](#) prior to the meeting.

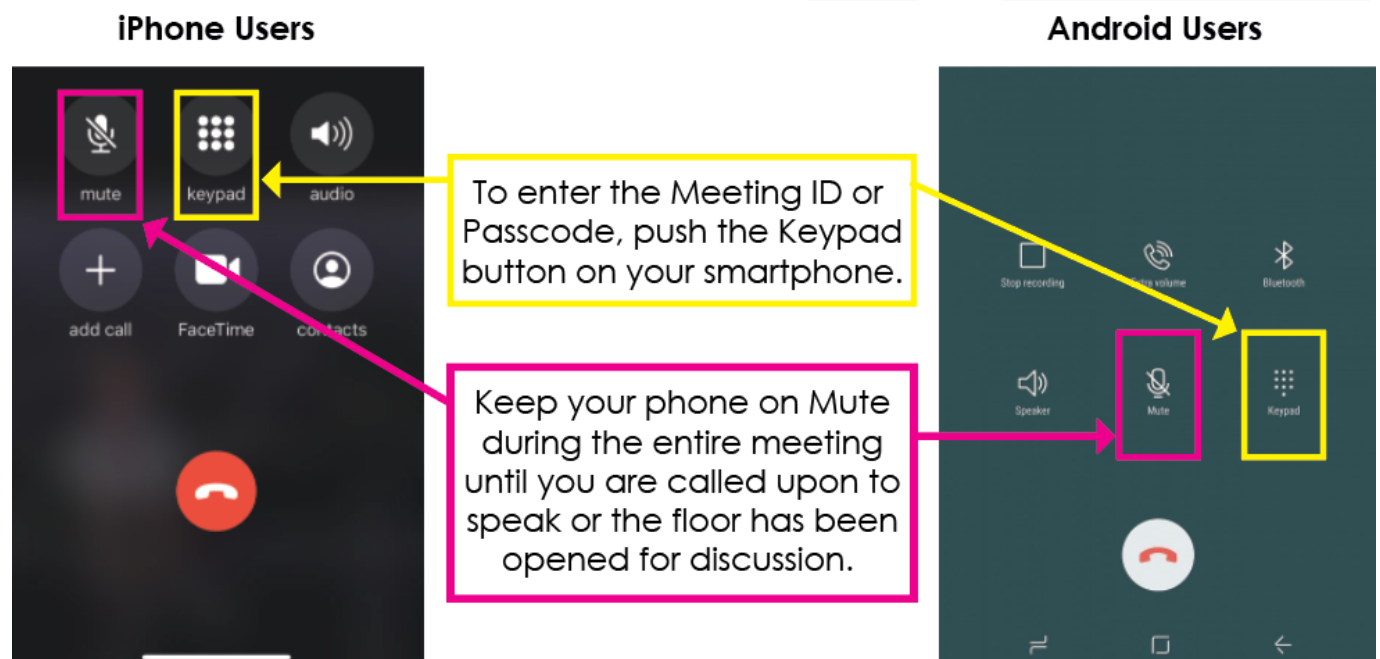
Additional Information

1. Wisconsin Open Meetings Law still applies
 - a. Persons interested in speaking to an item must state their name and address for the minutes.
 - b. Committee/Commission/Board members will still follow *Roberts Rules of Order Newly Revised 12th edition*.
2. Please log into the Zoom meeting at least 10 minutes before the meeting begins to ensure a proper connection and that your technology is working.
 - a. If you are a Board Member, please log into [CivicClerk](#) with a computer, laptop, or tablet device.
3. Once you are in the meeting please mute yourself.
 - a. You may unmute yourself when you are called upon to speak.
4. Waiting room
 - a. When you call in or connect via web or Zoom app, you will be placed in a "waiting room."
 - b. The meeting host will then admit you to the meeting, and mute you upon entrance (you will still be able to hear and or otherwise observe the meeting).
5. Registering
 - a. The host may ask you to register for the meeting. A registration link will be sent to you along with the invite. You'll receive another email confirming that you're registered for the meeting.
 - b. If you're using a phone, your registration will be tied to an email.
6. Raising your hand
 - a. Committee/Commission/Board members—you can either use CivicClerk and request to speak or you can also utilize the "raise your hand" tool in the Zoom platform (you'd need to use a computer or tablet) to let the host know you would like to speak. You can also un-mute yourself and start speaking.
 - b. Persons with items on the agenda or other interested parties—you can also utilize the "raise your hand" tool on the Zoom platform via computer or mobile device. You will be allowed to speak once the committee, commission, or board has moved to "open the floor for interested parties to speak." Once discussion on your agenda item has concluded, the host will mute you, unless the committee opens the floor again.
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 - a. Smart phone (please see more detailed instructions on page 3)
 - b. Land line
 - c. Tablet—in advance of the meeting, please download the Zoom Meeting app by using either the Apple Store or the Play Store. You will be asked to input your name, to identify you for the meeting.
 - d. Computer—you can access the meeting through a web browser by clicking on the meeting link, or through the Zoom Meeting app. If using the app, please download it in advance of the meeting. You will be asked to input your name, to identify yourself for the meeting.
 - e. For tablet and computer users—if you download the app you may be asked to verify your email.

8. Zoom etiquette
 - a. Muting yourself when you're not speaking will prevent your background noise from interfering with others' ability to listen to and participate in the meeting.
 - b. If you're using a telephone, please identify yourself with your phone number and state your name and address before you speak. Zoom meeting hosts can see only your telephone number and will ask you to identify yourself.
9. Closed session
 - a. Persons in the Zoom meeting will be put into a waiting room while the committee/commission/board meets in Closed Session. Participants will be admitted back into the Zoom meeting once the committee reconvenes in Open Session.
 - b. Persons watching a Common Council meeting live on YouTube will see a gray screen with the City logo during closed session.
10. Persons interested in attending anonymously or listening to the meeting may call in by dialing *67 followed by the phone number in the Zoom Meeting Information box.

Calling into the Zoom meeting using a smartphone

1. Dial the phone number listed at the beginning of this document.
2. When prompted, enter the Meeting ID number followed by #
3. Once you are in the meeting, notify the meeting host that you are in and state your name.
4. If you do not wish to speak, please make sure your phone is on **Mute**
 - a. If you're using a smartphone, look at your screen and click the Mute button





Report to the
**Improvement and Service Committee
of the City of Green Bay**

MEETING DATE

December 14, 2022

PREPARED BY

AGENDA ITEM # D.1

Consideration with possible action on the 2023 proposed vegetation maintenance at the City's stormwater ponds and facilities.

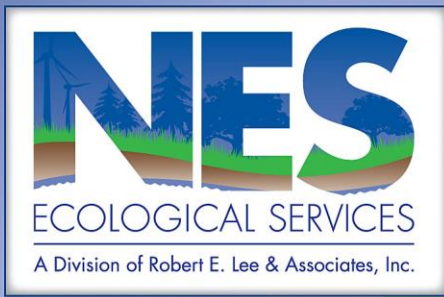
BACKGROUND

RECOMMENDATION

FISCAL IMPACT

ATTACHMENTS

1. Maintenance Proposal_2023
2. Proposal_2022_Barina Creek Sediments
3. 2022 Annual Insp. Report and 2023 Prop



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Maintenance Proposal

Royal Woods, Barina Creek, Berger Street,
Huron-Sitka, McAuliffe Park, Juza-Shorewood,
Eaton Heights, Mossy Oak & Voyager Drive Facilities

Prepared for

City of Green Bay

100 N. Jefferson
Green Bay, WI 54301
Project #10575084

Authored By:

James Havel

October 18, 2022

www.NESWI.com

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INTRODUCTION – NARRATIVE SUMMARY

NES Ecological Services, A Division of Robert E. Lee & Associates, Inc., is pleased to submit this proposal to assist with the installation, monitoring and maintenance of native vegetation & aquatic habitats at nine (Royal Woods, Huron-Sitka, Berger, Barina Creek, McAuliffe Park, Juza-Shorewood, Eaton Heights, Mossy Oak and Voyager Drive) of the city's stormwater management facilities. The proposal prioritizes the recommended activities to be conducted at each facility as outlined in the Detention Basin Assessment Report – 2022.

NES ecologists will be responsible for providing the following services:

- Inspections, both terrestrial & aquatic, to Assess Condition of Stormwater Facilities
- Meetings, Consultations, Correspondence, and/or reports if necessary
- Apply Herbicide to control Terrestrial & Emergent Invasive and Aggressive Plant Species (secure permits if necessary)
- Submit Proper Herbicide Treatment Documentation to WDNR and the City of Green Bay
- Woody Vegetation Removal
- Mowing Activities for Vegetation Management
- Conduct Prescribed Burns
- Coordinate w/city & city's Fire Department
- Notify Adjacent Landowners of Prescribed Burn
- Obtain Proper Permits and Pay Necessary Fees for Burning and Other Items as Necessary
- Ensure Proper Signage is in place during Burning & Arrange Traffic Control
- Prepare a Press Release, if necessary, to be distributed by City of Green Bay
- Attend Meetings as necessary for Burning Activities
- Site Preparation, including Herbicide Application & Discing Ground Work
- Provide & Install Side Slope Mix on Repair Areas
- Provide & Install Shoreline Mix on Repair Areas
- Install Non-Native Grass Seed, if Adaptive Management dictates the need
- Provide & Install Emergent Plant Plugs in Repair Areas
- Furnish, Install, and Maintain Herbivore Protection Fencing
- Furnish & Install Erosion Control Materials
- Periodically Inspect all city Stormwater Facilities

PROJECT TEAM

The primary contact person to coordinate the project for NES will be James Havel, Senior Ecologist and Project Manager, while Nick Kintopf, Restoration Ecologist, will be the lead field ecologist for the project. The City of Green Bay will be a key part of the project team. It is the intent of NES to work as an extension of the city and with city staff to ensure the stormwater facilities are managed appropriately. NES staff will also work with the city's muskrat trapper.

NES's ecological staff have extensive experience in monitoring native landscapes; site preparation; installing seeds, live plants, biologists, herbivore fencing, and erosion control measures; and maintenance through mowing, prescribed burns and herbicide applications. Our team will strive to conduct the proposed work in an efficient manner to reduce project costs while achieving the desired goals.

As mentioned above, James Havel will be the project leader. Mr. Havel will be the prime contact person for the city. Mr. Kintopf will be in charge of conducting the annual facility inspection visits and

assessment reports. Mr. Kintopf or Ian Mueller (Restoration Ecologist) will be responsible for leading aspects of the annual field operations. He will be the manager of, and a participant in, the field work. Mr. Kintopf and Mr. Mueller along with Dustin Sablich (Restoration Ecologist) will also participate in the prescribed burns, maintenance, installation and site preparation work. NES/REL also has several full-time and seasonal staff that have worked with our ecologists and are available when needed.

PROJECT RECOMMENDATIONS

Task 1. Provide Facility Inspection and Consultation

Prior to conducting any maintenance activities, NES will assess the overall condition of the communities at each stormwater facility. Nick Kintopf will be the primary person from NES performing this task; however, Ian Mueller and Dustin Sablich will also participate since they will be responsible for leading field activities. These facility site inspections will be used to determine preliminary maintenance activities. We will not prepare a report after this assessment, but we will conduct future maintenance activities accordingly based upon this visit. If there are any major issues, NES will notify the City of Green Bay.

In addition to the early season inspection, NES ecologists will periodically review all the stormwater facilities. To more accurately track conditions of a facility and activities conducted by our ecologists, a Stormwater Facility Inspection Form will be completed each time NES performs maintenance activities or a site is reviewed. The following information will be recorded:

- 1) Native and invasive species found on-site so their presence and relative level of occurrence can be tracked over time along with the success of previous maintenance activities, if conducted. The information will be used to determine future maintenance activities and performance schedules.
- 2) Plant and/or structural damage from muskrats and/or geese
- 3) Algae growth
- 4) Site conditions by taking photos from the same vantage point each visit.

These forms will be provided to the city as a means of tracking progress throughout the year.

At the end of each month in which a pond is visited, NES will provide a summary report of the pond and vegetation conditions. At a minimum the report will include:

- 1) Maintenance activities that were conducted – both vegetation (herbicide application, mowing, etc.) and non-vegetation (debris removal, erosion repair, etc.) related.
- 2) Professional opinion regarding the current condition of the pond and associated vegetation communities.
- 3) Recommendations for future maintenance activities.
- 4) Issues or potential issues such as herbivore damage (muskrats or geese), erosion within or around the basin, algae levels, lack of vegetation establishment, illicit discharges, and structural problems.
- 5) Site photos

Herbicide Application Records, which will include the species targeted, will also be included with these reports if applications occurred during that month.

If there are issues we believe should be addressed prior to sending the monthly report, NES will notify the City of Green Bay immediately.

NES will also provide an annual report by August/early September of each year that:

- 1) Summarizes activities performed in the current year
- 2) Provides recommended maintenance activities for the following growing season
- 3) Reviews the overall condition of the stormwater management facility

All reports will be provided in a format acceptable to the City of Green Bay so they can be posted on the city's website for residents.

Task 2. Provide Miscellaneous Consultations and Meetings

This task will be performed by one of our ecologists, when the need for special consultations and meetings arise. Prior to conducting this task, NES will coordinate with city personnel, and any other parties needing to attend, to determine a mutually convenient date to meet/consult. NES will only perform this task with special authorization and request by the city.

NES ecologists have worked with clients from all sector types. These include private landowners, residential clients, municipal officials, commercial property managers, business owners, government officials, and many others. We have experienced many situations with individuals that require significant communication, partnership, and education as to the reasons for utilizing functional native landscapes. Often the native landscapes are utilized in conjunction with traditional lawns and hardscapes, both for functionality and traditional landscape values. Our ecologists are very qualified and comfortable in these situations. If and when these meetings occur, NES will come prepared to each with appropriate background information from past visits, field efforts, and up-to-date information for the situation at hand. NES will also provide a written memo to the city documenting discussions and any recommendations made during the meeting/consultation. The ecologist involved will provide this information within one week.

Due to the spontaneous nature of this item, a specific schedule does not apply. NES will be responsive and meet the required time frames for this task when it arises.

Task 3. Apply Herbicide

As outlined in the Detention Basin Assessment Report – 2022, invasive species within the wetland and upland plant communities at the stormwater facilities will be treated with herbicide through various methods. NES has accounted for all likely treatment methods and herbicides that could be used for this project.

Task 4. Cut & Treat Woody Vegetation

As outlined in the Detention Basin Assessment Report – 2022, woody species around the stormwater facilities will be cut and treated with herbicide through various methods. Since remaining populations are small, management of the cut material will be done by NES staff. The woody debris will either be chipped and spread on-site or removed to city's east side compost yard. Our cost estimate includes conducting the chipping and/or removal.

Most of the work for this task has been completed; therefore, little to no additional effort is required. Unwanted seedlings will be addressed in Tasks 3, 6 & 8 once the initial large, established material is removed.

Task 5. Mow Vegetation to 6"-8" Height & Spot Mowing

As outlined in the Detention Basin Assessment Report – 2022, mowing activities will be conducted to control undesirable vegetation and to assist with renewal of the native plantings where prescribed burns cannot be utilized.

Task 6. Conduct Controlled Prairie Burn

As outlined in the Detention Basin Assessment Report – 2022, prescribed burns will be conducted where possible to help control undesirable cool season species and woody vegetation. We believe this activity can be safely conducted at all the stormwater facilities. It is ideal to leave some patches or sections of the native community unburned so wildlife has existing habitat and insects overwintering in the vegetation survive; however, we also understand there are increased costs with conducting this activity more than every 3-5 years; therefore, if prescribed burns are implemented at the facilities, the entire site will be burned.

Task 7. Perform Prairie Burn Administration

NES will coordinate with city staff, obtain all necessary permits, attend any meetings specifically requested for the burning operations, and provide written notification to the city and locally affected residents for all of the burn sites.

Task 8. Site Preparation Herbicide and Discing

If necessary, site preparation activities will occur within identified disturbed areas located around the stormwater facilities. These activities will ensure the invasive species found within these areas are controlled and the site restored to a community dominated by native vegetation.

Task 9. Furnish and Install Side Slope Prairie & Wetland Seed

Native seed mixes will be installed per the recommendations outlined in the Detention Basin Assessment Report – 2022. This task will focus primarily on addressing an area to be converted from lawn to prairie in the southern portion of Barina Creek and within the wet meadow zone at the facility due to the removal of woody vegetation and Phragmites within and around the stormwater facility. As management activities continue, additional seeding may be required due to the removal of woody vegetation, Phragmites, cattails or other invasive species within and around other ponds.

Task 10. Furnish and Install Emergent Plant Plugs

This task will focus on addressing areas with little or no emergent vegetation present. No planting is proposed for 2023; however, as management activities occur, additional planting may be required due to the removal of woody vegetation, Phragmites, cattails or other invasive species within the ponds.

Task 11. Furnish, Install & Remove Herbivore Protection Fencing

To protect newly installed plants, a fencing system will be erected around the planted vegetation and maintained for a minimum of one growing season, where necessary. Fencing needs are not anticipated in 2023.

Task 12. Furnish and Install Class I, Urban, Type A Erosion Control Blanket

NES crews are highly experienced in the variety of erosion control products that are on the market. The crews have installed a wide range of products, from silt fence, to sediment stops, erosion control blankets, check dams, and many others. They are familiar with the manufacturers recommended installation methods for these products. NES has consulted and installed erosion control products in restoration situations, stormwater basin situations, and for utility operations.

The NES team has installed Class I, Urban, Type A blanket in a variety of applications, from small restoration areas to large acreage stormwater basins. The team will have reviewed, and have on hand, the detailed product specification sheets when installing the products. Attention to detail related to proper trenching methods, overlap related to water flow, and secure stapling will be of the utmost importance. The product used will be WintersStraw Bio or an approved equal listed on the WI DOT PAL list.

Although seeding is proposed, the need for erosion blanket is unlikely do the relatively level nature of the sites to be seeded. Erosion is not anticipated; however, if issues arise, materials will be installed in a timely fashion to correct problems.

RESPONSE TIME

Any problems that may arise will be addressed by NES within five days or less. We will work with the City of Green Bay to achieve desired results while providing quality work in a timely manner.

CITY OF GREEN BAY TASKS

As time allows, city staff may participate in specific tasks discussed above like the removal of woody vegetation. The city's ability to chip and remove cut material in 2015-2017 allowed our staff to focus on removal and treatment efforts. We also acknowledge that the city will be contracting a trapper to conduct the muskrat trapping activities. NES will communicate often with the city to determine how these activities are being completed. NES will work with the city to determine staff availability to reduce overall project costs.

COST ESTIMATE

An itemized cost breakdown (Tables 1-9) for anticipated maintenance services on the nine stormwater facilities is located below. To help with budget decisions, an annual cost estimate for each anticipated task is provided for each facility. Annual assessments will help determine remaining priorities. Table 10 contains a total estimated cost for all nine facilities.

Barina Creek

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Phragmites & Narrow-leaved Cattail Control (Tasks #3 & #5)
- 3) Selective Herbicide Application & Mowing (Tasks #3 & #5)
- 4) Prescribed Burn – southern half of facility (Tasks #6 & #7), only if northern half is burned in the fall of 2022
- 5) Conduct Site Preparation Activities in the Southern Portion of the Facility (Task 8)
- 6) Seed/Overseed Prairie Near Southern Inlet and Wet Meadow in Previous Phragmites Control Areas – South Side of Facility (Task #9), if necessary

Table 1. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$2,600
#5 - Mowing Activities	\$2,600
#6 – Prescribed Burn	\$3,000
#7 – Prescribed Burn Administration	\$500
#8 – Site Preparation Herbicide & Discing	\$2,500
#9 – Furnish & Install Prairie Seed	\$1,000
#9 – Furnish & Install Wetland Seed (if necessary)	\$3,500
Total Cost	\$16,825

Berger

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Japanese Knotweed Control (Tasks #3 & #5)
- 3) Selective Herbicide Application & Mowing (Tasks #3 & #5)

Table 2. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$1,200
#5 - Mowing Activities	\$1,000
Total Cost	\$3,325

Eaton Heights

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Emergent Wetland - Phragmites & Narrow-leaved Cattail Control (Tasks #3 & #5)
- 3) Selective Herbicide Application & Mowing (Tasks #3 & #5)
- 4) Repair & Remove Herbivore Fencing (Task #11)

Table 3. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$1,900
#5 - Mowing Activities	\$2,000
#11 – Repair & Remove Herbivore Protection Fencing	\$2,100
Total Cost	\$7,125

Huron-Sitka

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Selective Herbicide Application & Mowing (Tasks #3 & #5)

Table 4. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$700
#5 - Mowing Activities	\$500
Total Cost	\$2,325

Juza-Shorewood

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Emergent Wetland - Phragmites & Narrow-leaved Cattail Control (Tasks #3 & #5)
- 3) Selective Herbicide Application & Mowing (Tasks #3 & #5)
- 4) Prescribed Burn (Tasks #6 & #7), if not completed in fall of 2022.

Table 5. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$1,200
#5 - Mowing Activities	\$900
#6 – Prescribed Burn	\$2,000
#7 – Prescribed Burn Administration	\$500
Total Cost	\$5,725

McAuliffe Park

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Selective Herbicide Application & Mowing (Tasks #3 & #5)

Table 6. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$900
#5 - Mowing Activities	\$1,500
Total Cost	\$3,525

Mossy Oak

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Selective Herbicide Application & Mowing (Tasks #3 & #5)

Table 7. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$4,500
#5 - Mowing Activities	\$2,400
Total Cost	\$8,025

Royal Woods

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Japanese Hedge Parsley & *Phragmites* Control (Tasks #3 & #5)
- 3) Selective Herbicide Applications & Mowing (Tasks #3 & #5)

Table 8. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$875
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$1,000
#5 - Mowing Activities	\$900
Total Cost	\$3,025

Voyager Drive

Prioritized tasks for 2023 are as follows:

- 1) Facility Inspection and Reporting (Task #1)
- 2) Selective Herbicide Application (Tasks #3)

Table 9. Cost Estimate for 2023.

Task	Estimated Cost
#1 - Facility Inspection & Report Preparation	\$475
#2 - Miscellaneous Meetings/Consultations	\$250
#3 - Herbicide Applications	\$725
Total Cost	\$1,450

Table 10. Total Estimated Maintenance Costs – 2023.

Pond	2023
Barina Creek	\$16,825
Berger	\$3,325
Eaton Heights	\$7,125
Huron-Sitka	\$2,325
Juza-Shorewood	\$5,725
McAuliffe Park	\$3,525
Mossy Oak	\$8,025
Royal Woods	\$3,025
Voyager Drive	\$1,450
Grand Total*	\$51,350

* Costs to conduct these tasks will be billed on a time and expense basis; however, NES will work with the City of Green Bay to eliminate tasks were applicable and reduce costs where able to ensure desired work is conducted within the constraints of the budget. Services not covered within this proposal will be negotiated with the city.

If you have any questions or there are other items you wish to include, please contact me. If the proposal is acceptable, please amend our existing contract with the City of Green Bay to conduct Year 9 – 2023 maintenance activities described above and in the Detention Basin Assessment Report – 2022 completed by NES for the city. We look forward to our continued working relationship.

Sincerely,

NES ECOLOGICAL SERVICES



James Havel
Division Manager
Senior Ecologist
jhavel@releeinc.com

ROBERT E. LEE & ASSOCIATES, INC.



Jared Schmidt, P.E., V.P.
Civil/Municipal Engineering Manager
jschmidt@releeinc.com

September 27, 2022

Ms. Kelly O'Malley, Stormwater Engineering Technician
CITY OF GREEN BAY
100 N. Jefferson
Green Bay, WI 54301
Kelly.OMalley@greenbaywi.gov

RE: Environmental Services – Barina Creek Sediment Investigation

Dear Ms. O'Malley:

Robert E Lee & Associates, Inc. (REL) is pleased to provide this professional services proposal the sediment sampling and testing for accumulated material within Barina Creek, City of Green Bay, WI.

REL will conduct soil investigation at Barina Creek within the storm water feature in the areas previously identified by the City of Green Bay Department of Public Work (DPW) staff, specifically to evaluate depth of accumulated sediment at the sample location, collect samples of the sediment (5), and perform lab testing to characterize the accumulated sediment within the basin. The purpose of this investigation is to help inform the existence and extent of accumulated sediments at the location of each sample and to help identify how the sediment can be disposed of. Laboratory testing of the sediment will be completed following the basic guidance for soil sampling in storm water facilities provided by the Wisconsin Department of Natural Resources (NR 528). Sediment collection will be conducted via wading into the shallow water or collecting by boat.

This information will be provided to City DPW staff to be utilized for their use. As desired, REL can assist with the preparation of a sediment disposal plan, should the soils be characterized in a fashion that requires off-site disposal, whether by land spreading or solid waste disposal. REL can also provide a complete bathymetric survey of the basin as desired, to help determine the overall volume of material to be removed, if dredging is performed. The additional services can be scoped once the nature of the sediment is determined.

REL will complete the requested sampling for a lump sum of \$2,200, with an additional lab fee estimated to be \$600. Lab fees will be billed as a reimbursable expense above the sampling fee provided.

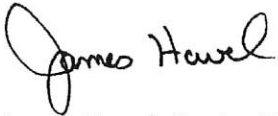
We appreciate the opportunity to submit our proposal for environmental services and look forward to continuing to service the City of Green Bay with professional services. Attached, and made part of this proposal, are our Standard Terms and Conditions, dated June 2006. If this proposal is acceptable to you, please sign in the location on the following page and return a copy for our files.

Ms. Kelly O'Malley, Stormwater Engineering Technician
CITY OF GREEN BAY
RE: Environmental Services – Barina Creek Sediment Investigation

Please do not hesitate to call me if you have any questions.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.



James Havel, Senior Ecologist
NES Ecological Services

JH/JGS/NJM

ENC.

ACCEPTED BY CITY OF GREEN BAY



Signature

MATTHEW R. HECKENLAIBLE 10/06/2022

Print Name

Date

ROBERT E. LEE & ASSOCIATES, INC.

STANDARD TERMS AND CONDITIONS

I. SCOPE

Robert E. Lee & Associates, Inc. agrees to perform the engineering, surveying, and/or environmental services described in the proposal or agreement in which these standard terms and conditions are referenced and to which they are attached. Unless modified in writing by the parties thereto, duties of Robert E. Lee & Associates, Inc. shall not be construed to exceed those services specifically set forth in the proposal or agreement to which these standard terms and conditions are attached.

II. COMPENSATION

Client agrees to pay for the services provided in accordance with the compensation provisions described in the proposal or agreement to which these standard terms and conditions are attached. Payment to Robert E. Lee & Associates, Inc. will be made within 30 days after the date of billing. For all amounts unpaid after 30 days from the invoice date, client agrees to pay Robert E. Lee & Associates, Inc. a finance charge of 1-1/2% per month.

For time and expense compensation, charges will consist of salary-related costs and non-salary costs. Salary-related charges include, but are not limited to, the following:

1. Salaries paid employees for time spent working directly on the subject project.
2. Costs of employee fringe benefits attributable to the employee's time spent working directly on the subject project.
3. General and administrative overhead charges distributed on the basis of employee time spent working directly on the subject project.

Nonsalary costs cover items directly related to the project, other than those covered by salary-related costs. Such non-salary costs shall be computed on the basis of actual purchase price for items and services obtained from commercial sources and outside consultants. Cost of items and services provided directly by Robert E. Lee & Associates, Inc. shall be in accordance with rate schedules based on normal charges of commercial sources. Non-salary items and services include, but are not limited to, the following:

1. Services directly applicable to the project such as special legal and accounting expenses, computer rental and programming costs, special consultants, borings, environmental analyses, commercial printing and binding, and similar services that are not applicable to general overhead.
2. Identifiable reproduction services applicable to the project such as printing of drawings, photostating, multilithing, printing, and similar services.
3. Identifiable communication services such as long-distance telephone, telegraph, cable, express services, and postage other than for general correspondence.

4. Living and traveling expenses of employees when away from home office on business connected with the project.

5. Subcontracted services.

III. RESPONSIBILITY

Robert E. Lee & Associates, Inc. is employed to render a professional service only, and any payments made by the client are compensation solely for such services rendered and recommendations made in carrying out the work. Robert E. Lee & Associates, Inc. shall follow the practice of the civil engineering, surveying, and/or environmental services professions to make findings, opinions, factual presentations, and professional advice and recommendations.

In performing construction management services, Robert E. Lee & Associates, Inc. review of work prepared or performed by other individuals or firms employed by the client shall not relieve those individuals or firms of complete responsibility for the adequacy of their work.

It is understood that any resident engineering or construction observation provided by Robert E. Lee & Associates, Inc. is for the purpose of determining compliance with the technical provisions of the project specifications and does not constitute any form of guarantee or insurance with respect to the performance of a contractor. Robert E. Lee & Associates, Inc. does not assume responsibility for methods or appliances used by a contractor, for safety of construction work, or for compliance by contractors with laws and regulations.

It is understood and agreed by both parties that Engineer, in performing professional services for Owner with respect to hazardous substances, will make recommendations to Owner with respect thereto, but does not have the authority or responsibility to decide where disposal or treatment takes place, nor to designate how or by whom the hazardous substances are to be transported for disposal or treatment.

IV. INSURANCE AND LIMITS OF LIABILITY

Robert E. Lee & Associates, Inc. shall maintain during the life of the Agreement, the following minimum public liability and property damage insurance to cover claims for injuries, including accidental death, as well as from claims for property damages which may arise from the performance of work under the Agreement. The client agrees to limit the liability of Robert E. Lee & Associates, Inc. to the extent of Robert E. Lee & Associates, Inc. insurance or as otherwise stated below:

1. Comprehensive general liability insurance, including personal injury liability, blanket contractual liability, and broad form property damage liability. The combined single limit of liability for bodily injury and property damage shall be \$1,000,000.
2. Automobile bodily injury and property damage liability insurance covering owned, nonowned, rented, and hired cars. The combined single limit of liability for bodily injury and property damage shall be \$600,000.
3. Statutory workers compensation and employers' liability insurance as required by the state having jurisdiction.

4. Professional liability insurance covering damages resulting from errors and omissions of Robert E. Lee & Associates, Inc. The limit of liability shall be \$1,000,000.

V. SUSPENSION OF WORK

The client may suspend, in writing, all or a portion of the work under the Agreement in the event unforeseen circumstances beyond the control of the client make normal progress in the performance of the work impossible. Robert E. Lee & Associates, Inc. may request that the work be suspended by notifying the client, in writing, of circumstances which are interfering with normal progress of the work. The time for completion of the work shall be extended by the number of days the work is suspended. In the event that the period of suspension exceeds 90 days, the terms of the Agreement are subject to renegotiation and both parties are granted the option to terminate work on the suspended portion of the project.

VI. TERMINATION OF WORK

Either party may terminate work in the event the other party fails to perform in accordance with the provisions of the Agreement. Termination of the Agreement is accomplished by 15 days prior written notice from the party initiating termination to the other. Notice of termination shall be delivered by certified mail with receipt for delivery returned to the sender.

In the event of termination, Robert E. Lee & Associates, Inc. shall perform such additional work as is necessary for the orderly filing of documents and closing of the project. The additional time for filing and closing shall not exceed 10 percent of the total time expended on the terminated portion of the project prior to the effective date of termination.

Robert E. Lee & Associates, Inc. shall be compensated for the terminated portion of the work on the basis of work actually performed prior to the effective date of termination plus the work required for filing and closing. Charges for the latter work are subject to the 10 percent limitation described in this Article.

VII. ASSIGNMENT

These terms and conditions and the Agreement to which they are attached are binding on the heirs, successors, and assigns of the parties hereto. The Agreement is not to be assigned by either the client or Robert E. Lee & Associates, Inc. without the prior written consent of the other.

VIII. INTEGRATION

These terms and conditions and the Agreement to which they are attached represent the entire understanding of the client and Robert E. Lee & Associates, Inc. as to those matters contained

herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered hereunder. The Agreement may not be modified or altered except in writing signed by both parties.

IX. JURISDICTION

This Agreement shall be administered and interpreted under the laws of the state of Wisconsin. Jurisdiction of litigation arising from the Agreement shall be in the state of Wisconsin. If any part of the Agreement is found to be in conflict with applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall be in full force and effect.

X. DISPUTE RESOLUTION

In an effort to resolve any conflicts that arise during the design or construction of the project following the completion of the project, the Client and the Engineer agree that all disputes between them arising out of or relating to this Agreement shall be submitted to nonbinding mediation unless the parties mutually agree otherwise.

The Client shall make no claim for professional negligence, either directly or in a third party claim, against the Engineer unless the Client has first provided the Engineer with a written certification executed by an independent engineer currently practicing in the same discipline as the Engineer and licensed in the state of Wisconsin. This certification shall: a) specify each and every act or omission that the certifier contends is a violation of the standard of care expected of an Engineer performing professional services under similar circumstances; and b) state in complete detail the basis for the certifier's opinion that each such act or omission constitutes such a violation. This certificate shall be provided to the Engineer not less than thirty (30) calendar days prior to the presentation of any claim or the institution of any mediation or judicial proceeding.

In the event of any litigation arising from or related to the services provided under this Agreement, the prevailing party will be entitled to recovery of all reasonable costs incurred, including staff time, court costs, attorneys' fees and other related expenses.

All legal actions by either party against the other arising out of or in any way connected with the services to be performed hereunder shall be barred and under no circumstances shall any such claim be initiated by either party after two (2) years have passed from the date of completion of construction phase services, unless the Engineer's services shall be terminated earlier, in which case the date of termination of this Agreement shall be used.

June 2000



October 7, 2022

Ms. Kelly O'Malley
City of Green Bay – Engineering
100 N. Jefferson Street, Room 300
Green Bay, WI 54301

Re: City of Green Bay
2022 Annual Inspection, Assessment Report and Proposal
Baird Creek Preserves Ponds, Larscheid Pond, Mills Street Pond,
Basten Street Wetlands, Excalibur Pond, and Superior Pond
McM. No. G0018-09-22-00163.04

Dear Ms. O'Malley:

The purpose of this report is to provide the results of an Annual Assessment of the vegetation (terrestrial and aquatic) at seven City of Green Bay stormwater facilities and provide a Proposal for 2023 services. These facilities are listed below.

- ▶ Baird Creek Preserve Northwest Pond Facility
- ▶ Baird Creek Preserve Northeast Pond Facility
- ▶ Larscheid Pond Facility
- ▶ Mills Street Pond Facility
- ▶ Basten Street Wetlands Facility
- ▶ Excalibur Pond Facility
- ▶ Superior Pond

McMahon Associates, Inc. (McMAHON) walked over the upland and safety shelf of each stormwater facility to assess the current conditions following treatment protocols this year. Each of the seven stormwater facilities are discussed in detail below. The proposed 2023 services are detailed in the '5-Year Stormwater Facility Adaptive Native Vegetation Proposal & Budget (Revised Annually)'.

Ms. Kelly O'Malley
City of Green Bay – Engineering

Baird Creek Preserve Northwest Pond Facility

■ **Prairie**

The prairie is in the sixth year of growth. The prairie is high quality providing a variety of color from spring to fall. The primary species include smooth penstemon, purple coneflower, stiff goldenrod, Canada goldenrod, bergamot, lavender hyssop, sky blue aster, New England aster and Indian grass. Basic long-term maintenance should be performed to maintain the high quality. The following activities have occurred this year so far.

- ▼ Spot herbicided the prairie.

■ **Proposal**

▼ **Prairie**

- ◆ Spot herbicide and spot mow invasive species in the prairie to continue to improve the moderate to high quality prairie.

▼ **Safety Shelf and Shoreline**

We do not recommend additional activities in the safety shelf or shoreline until the pond leak is identified and repaired. The proper hydrology is required to restore aquatic vegetation. The water level is approximately 20-inches below the normal pool elevation design.

Baird Creek Preserve Northeast Pond Facility

■ **Prairie**

The prairie is in the sixth year of growth. The prairie is outstanding and high quality providing rich color from spring to fall. The primary species are purple coneflower, butterfly milkweed, oxeye sunflower, blue lobelia, stiff goldenrod, New England aster, Indian grass, smooth penstemon, smooth blue aster, little bluestem grass and bergamot. Basic long-term maintenance should be performed to maintain the high quality. The following activities have occurred this year so far.

- ▼ Spot herbicided and hand pulled invasive species in the prairie to continue to maintain the high quality prairie.

■ **Safety Shelf and Shoreline**

The aquatic plants are developing slowly due to lower light conditions generated by the forest located to the south and are the same as last year. There is not any shoreline erosion due to the small size of the pond, wind protection from the woods and shoreline plants. Aquatic plant species include softstem bulrush, burreed, arrowhead and sedges. The following activities occurred this year.

- ▼ Herbicided phragmites.

Ms. Kelly O'Malley
City of Green Bay – Engineering

- **Proposal**
 - ▼ **Prairie**
 - ◆ Spot herbicide, hand pull, and/or spot mow invasive species in the prairie.
 - ▼ **Safety Shelf and Shoreline**
 - ◆ Spot herbicide cattails, phragmites and woody vegetation to maintain the area.

We do not recommend additional aquatic planting in the future since the plants have reached near equilibrium with the environmental conditions.

Larscheid Pond Facility

The prairie is outstanding in quality and diversity providing a rich variety of color from spring to fall. Primary species include purple coneflower, butterfly milkweed, stiff goldenrod, sweet black eyed susan, New England aster, bergamot, smooth blue aster, smooth penstemon, iron weed, and Indian grass. Basic long-term maintenance should be performed to maintain the high quality. The following activities occurred this year so far:

- **Prairie**
 - ▼ Spot herbicided and hand pulled invasive species in the mesic prairie.
- **Safety Shelf and Shoreline**

The aquatic plants are in excellent condition on the safety shelf with many different native species. Active emergent aquatic plants include burreed, arrowhead, yellow lily and white lily. Cattails and phragmites were absent from the pond due to effective eradication five years ago and did not require treatment this year.
- **Proposal**
 - ▼ **Prairie**
 - ◆ Spot herbicide, hand pull, and mow invasive species to continue to maintain the high quality prairie.
 - ▼ **Safety Shelf and Shoreline**

There are no invasive species in the safety shelf and shoreline. We recommend general observation to detect potential invasive species.

Mill Street Pond Facility

The prairie grasses are doing outstanding at the site with grass standing 5 to 8 feet tall in the fall. This will substantially deter geese. Primary species are big blue stem grass and Indian grass. Some wildflowers are starting to emerge including great blue lobelia, cardinal flower, marsh milkweed and bergamot. Invasive broadleaf weeds such as hairy vetch, sweet flowers, queen annes lace and leafy spurge exist at very low amounts.

Ms. Kelly O'Malley
City of Green Bay – Engineering

The following activities occurred this year so far:

- **Prairie**

- ▼ Spot herbicide invasive species.

- **Safety Shelf and Shoreline**

The emergent aquatic plants are nearly absent from the safety shelf due expansion of the carp population and individual size. Aquatic plants, besides water lily, will not survive with the current carp population.

- ▼ Herbicide Phragmites

- **Proposal**

- ▼ **Prairie**
 - ◆ Spot herbicide, hand pull and/or mow invasive species.

- **Wetlands and Shoreline**

- ▼ Cattails and phragmites should be herbicided to maintain the area.

Additional aquatic plants are not recommended in the future due to the high carp population size and large individuals.

Basten Street Wetlands Facility

- **Prairie**

The existing prairie is high quality providing a variety of color from spring to fall. The 0.49 acre prairie restoration area has high density of plants and is high quality. The primary species include purple coneflower, stiff goldenrod, smooth penstemon, Indian grass, New England aster, smooth blue aster, blue lobelia, grass leaved goldenrod, path rush, sweet black eyed susan, butterfly milkweed, switch grass and boneset. The 0.25 acre wet prairie area is in the fifth year growth and has good amount of prairie plants flowering especially blue lobelia. The following activities have occurred this year so far.

- ▼ Spot herbicided and hand pulled invasive species.

- **Wetlands and Shoreline**

The wetland plants have greatly expanded naturally. The native emergent plant species include softstem bulrush, burreed and river bulrush. The entire shallow marsh is nearly covered with vegetation.

- ▼ Herbicide cattails and phragmites (will occur in October).

Ms. Kelly O'Malley
City of Green Bay – Engineering

■ Proposal

- ▼ Prairie
 - ◆ The invasive species should be spot herbicided, spot mowed, and hand pulled in the prairie to maintain the high quality prairie.
- ▼ Wetlands and Shoreline
 - ◆ Spot herbicide cattails, phragmites and woody vegetation to maintain the area.

Additional aquatic plants are not recommended in the future since most of the suitable area is occupied by plants and expanding naturally.

Excalibur Pond Facility

■ Prairie

The prairie around the pond is of high quality providing a variety of color from spring to fall. The primary species in the upland areas include new England aster, bergamot, little bluestem grass, stiff goldenrod, switchgrass, and brown eyed susan. The species along the wet prairie near the pond include woolgrass, blue vervain, bluejoint grass, water horehound, boneset and various sedges. The amount of invasive species in the prairie including crown vetch (couple patches), clovers, bull thistle, Canada thistle and leafy spurge has been reduced this year by treatments.

The following activities occurred this year:

- ▼ Spot herbicided and hand pulled invasive species.

■ Safety Shelf and Pond

The safety shelf contains approximately 80% coverage of native water lilies that provide beneficial functional values. The lilies continued to expand this year due to successful eradication of phragmites in the deeper parts of the safety shelf. Also, small amounts of native burreed and arrowhead exist in the safety shelf.

The sediment is hard in many places of the safety shelf which makes it difficult for some aquatic species to be planted and survive. The safety shelf varies from 3 to 10 feet wide. We recommend leaving the safety shelf 'as-is' since the lilies are expanding naturally in areas formally occupied by non-native cattail and phragmites. There does not appear to be shoreline erosion from waves, due to the small isolated nature of the pond and shoreline plants/lilies.

The pond contains several native submergent aquatic plants including sago pondweed and muskgrass (type of macro algal). The submergent plants and macro algal are beneficial to improving water quality.

The following activities occurred this year:

- ▼ Herbicide cattails and phragmites.

Ms. Kelly O'Malley
City of Green Bay – Engineering

- **Proposal**

- ▼ **Prairie**
 - ◆ Spot herbicide and hand pull invasive species to maintain the high quality prairie.
- ▼ **Safety Shelf**
 - ◆ Herbicide the phragmites, cattails and wood vegetation to eradicate them from the site.

Superior Pond

- **Prairie**

A diverse prairie mix was seeded in the spring of 2022. The results so far are good but there is too low of amount of prairie grasses that germinated. The reason is unknown, but this can happen at times. The invasive species are low. There are high amounts of purple prairie clover and butterfly milkweed in the prairie with some coneflowers.

The following activities occurred this year.

- ▼ Spot herbicided invasive species.

- **Safety Shelf and Shoreline**

The safety shelf is covered with high quality native emergent aquatic plants including river bulrush, softstem bulrush and burreed. A high amount of willow brush and cottonwood saplings existed on the shoreline that were successfully eradicated this year.

The following activities occurred this year.

- ▼ Spot herbicided willow brush and cottonwood saplings.
- ▼ Will herbicide cattails in October.

- **Proposal**

- ▼ **Prairie**
 - ◆ We recommend assessing the prairie for additional prairie development in 2023. If necessary, in the spring of 2024, over seeding the prairie with primarily a grass-based prairie mix. This would be significantly less cost than this year's prairie seeding since grasses are substantially less cost than wildflowers. Prairie over seeding a second or third year is sometimes necessary to provide proper diversity to a prairie. It is important to conduct the second or third year, when necessary, to assist in keeping invasive species out by supplying competition.
 - ◆ Spot herbicide invasive species in the prairie.
- ▼ **Safety Shelf and Shoreline**
 - ◆ Herbicide cattails, phragmites and willow brush to maintain high quality aquatic plants in the safety shelf and shoreline.

Page 7 | October 7, 2022

Ms. Kelly O'Malley
City of Green Bay – Engineering

If you have any questions, please let me know.

Respectfully,

McMahon Associates, Inc.

A handwritten signature in black ink, appearing to read 'Stuart A. Boerst', written in a cursive style.

Stuart A. Boerst, P.S.S., P.H.
Associate / Senior Ecologist

SAB:car:mck

Enclosure: Photographs

5-Year Stormwater Facility Adaptive Native Vegetation Proposal & Budget (Revised Annually)

City of Green Bay | Brown County, Wisconsin

October 7, 2022

McM. No. G0018-09-22-0000163.04



BAIRD CREEK PRESERVE NORTHWEST POND (0.99 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$500	\$500	\$500	\$500	\$500
Prescribed Prairie Burn	--	\$1,100	--	--	--
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$900	\$2,000	\$900	\$900	\$900

BAIRD CREEK PRESERVE NORTHEAST POND (1.3 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$400	\$400	\$400	\$400	\$400
Herbicide Cattails, Phragmites, Purple Loosestrife, Woody Vegetation in Wetlands	\$200	\$200	\$200	\$200	\$200
Prescribed Prairie Burn	--	\$1,000	--	--	--
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$1,000	\$2,000	\$1,000	\$1,000	\$1,000

LARSCHEID POND (0.99 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$300	\$300	\$300	\$300	\$300
Prescribed Prairie Burn	--	\$1,100	--	--	--
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$700	\$1,800	\$700	\$700	\$700

MILLS STREET POND (3.77 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Prescribed Prairie Burn	--	--	\$1,600	--	--
Supply and Install One 1-Inch Swamp White Oak	--	--	--	--	--
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$400	\$400	\$400	\$400	\$400
Herbicide Cattails, Phragmites, Purple Loosestrife, Woody Vegetation in Wetlands	\$300	\$300	\$300	\$300	\$300
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$1,100	\$1,100	\$2,700	\$1,100	\$1,100

BASTEN STREET WETLANDS FACILITY (1.65 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$400	\$400	\$400	\$400	\$400
Herbicide Cattails, Phragmites, Purple Loosestrife, Woody Vegetation in Wetlands	\$300	\$300	\$300	\$300	\$300
Prescribed Prairie Burn	--	\$1,500	--	--	--
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$1,100	\$2,600	\$1,100	\$1,100	\$1,100

EXCALIBUR POND FACILITY (0.31 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$300	\$300	\$300	\$300	\$300
Herbicide Cattails, Phragmites, Purple Loosestrife, Woody Vegetation in Wetlands	\$200	\$200	\$200	\$200	\$200
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$900	\$900	\$900	\$900	\$900

SUPERIOR POND (1.49 Acre Prairie)

PRAIRIE/WETLAND MAINTENANCE ACTIVITY	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Project Management / Site Meetings	\$200	\$200	\$200	\$200	\$200
Spot Herbicide Hand Pull and Mow Exotic / Invasive Species In Prairie (Spring-Fall)	\$1,000	\$700	\$400	\$400	\$400
Herbicide Cattails, Phragmites, Purple Loosestrife, Woody Vegetation in Wetlands	\$500	\$500	\$500	\$500	\$500
Annual Inspection and Assessment Report and Proposal	\$200	\$200	\$200	\$200	\$200
Total	\$1,900	\$1,600	\$1,300	\$1,300	\$1,300



Report to the
Improvement and Service Committee
of the City of Green Bay

MEETING DATE

December 14, 2022

PREPARED BY

AGENDA ITEM # D.2

Consideration with possible action on a request by Department of Public Works to adopt the Proposed 2023 Sanitary Sewer Rates.

BACKGROUND

RECOMMENDATION

FISCAL IMPACT

ATTACHMENTS

- I. 2023 Sanitary Rate Submittal to Committee

PROPOSED 2023
SEWER SERVICE CHARGES

SECTION (3)(c)1. NON-MONITORED USERS

Section (3)(c)1.a. Normal Sewage Strength Parameters Five year Average

Biochemical Oxygen Demand (BOD)	= 259 ppm
Suspended Solids (S.S.)	= 437 ppm
Phosphorous	= 6.8 ppm
Total Kjeldahl Nitrogen (TKN)	= 38.8 ppm

Section (3)(c)1.b. Service Charge

Service Charge = Customer Charge + Volume Charge

Section (3)(c)1.c. Customer Charge

<u>Meter Size</u> (Inches)	<u>Monthly</u> <u>Billed Customers</u>		<u>Quarterly</u> <u>Billed Customers</u>	
	<u>Allowance</u> (100 c.f.)	<u>Amount</u> (\$)	<u>Allowance</u> (100 c.f.)	<u>Amount</u> (\$)
5/8 or 3/4	1	\$ 18.00	3	\$ 38.00
1	3	32.60	9	80.20
1 1/2	5	47.20	15	122.40
2	10	84.50	30	229.30
3	20	181.10	60	511.10
4	30	269.90	90	745.60
6	65	535.30	195	1,493.60
8	175	1,263.60	510	3,538.50
10	250	1,797.60	750	5,152.00

c.f. = cubic feet

Section (3)(c)1.d. Volume Charge

The G.B.M.S.D. rates for the current period are:

Volume:	\$0.88669/1,000 gallons
BOD:.....	\$0.56941/pound
Suspended Solids.....	\$0.70913/pound
Phosphorous:	\$3.22273/pound
TKN:	\$0.75539/pound

Based On The G.B.M.S.D. Rates, The Volume Charges Are As Follows:

The G.B.M.S.D. Charge shall be: \$3.83/100 cubic feet

The City charge shall be: \$2.29/100 cubic feet

The total volume charge shall be: \$6.12/100 cubic feet

Section (3)(c)2. MONITORED USERS

Abnormal Strength Sewage

Section (3)(c)2.a. Service Charge

Service Charge = Monthly Customer Charge + Quantity Charge
+ Sampling Charge

Section (3)(c)2.b. Monthly Customer Charge

\$239.00 per month

Section (3)(c)2.c. Quantity Charges

	<u>G.B.M.S.D. Rate</u>	<u>City Rate</u>	<u>Total Rate</u>
Volume:	\$0.66324/100 c.f. ^(a)	\$2.29/100 c.f.	\$2.95324/100 c.f.
BOD:	\$0.56491/pound	--	\$0.56491/pound
S.S.:	\$0.70913/pound	--	\$0.70913/pound
Phosphorous:	\$3.22273/pound	--	\$3.22273/pound
TKN:	\$0.75539/pound	--	\$0.75539/pound

^(a)Equivalent to \$0.88669/1,000 gallons
c.f. = cubic feet

Section (3)(c)2.d. Sampling Charge

2023 Rates

Sample Collection (\$12) & Analysis (\$45) = \$57.00 per sample

Sampler Rental = \$35.00 per day

SANITARY SEWER DISTRICT RATE HISTORY

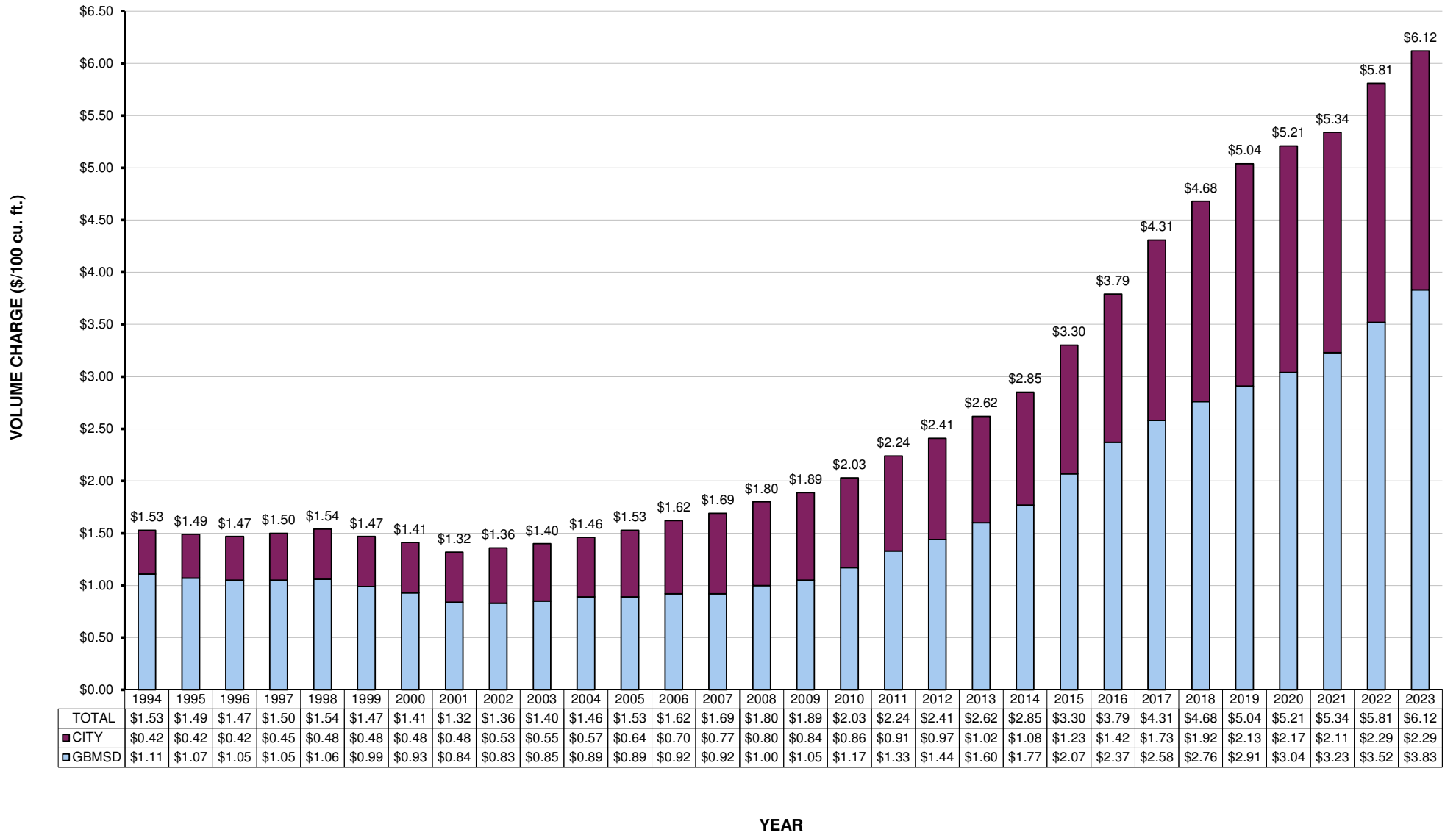
YEAR	VOLUME CHARGE			MINIMUM CHARGE				QUARTERLY	BUDGET
	NON-MONITORED USERS			NON-MONITORED USERS				CHARGE	
	GBMSD	CITY	TOTAL	I/I	VOLUME	BILLING	TOTAL	(AVERAGE	
RESIDENTIAL									
								CUSTOMER)	
1979	\$0.55	\$0.27	\$0.82	\$3.73	\$2.46	\$1.36	\$7.55	\$22.31	\$5,418,930.00
1980	\$0.56	\$0.33	\$0.89	\$4.48	\$2.67	\$1.50	\$8.65	\$24.67	\$5,138,000.00
1981	\$0.56	\$0.36	\$0.92	\$4.52	\$2.76	\$1.47	\$8.75	\$25.31	\$5,358,500.00
1982	\$0.55	\$0.40	\$0.95	\$4.32	\$2.85	\$2.18	\$9.35	\$26.45	\$5,683,500.00
1983	\$0.54	\$0.42	\$0.96	\$4.35	\$2.88	\$2.47	\$9.70	\$26.98	\$6,282,000.00
1984	\$0.55	\$0.44	\$0.99	\$4.36	\$2.97	\$2.67	\$10.00	\$27.82	\$6,573,000.00
1985	\$0.54	\$0.40	\$0.94	\$4.42	\$2.82	\$2.86	\$10.00	\$26.92	\$7,004,000.00
1986	\$0.56	\$0.36	\$0.92	\$3.70	\$2.76	\$2.84	\$9.30	\$25.86	\$6,867,000.00
1987	\$0.62	\$0.38	\$1.00	\$3.91	\$3.00	\$3.04	\$9.95	\$27.95	\$7,275,000.00
1988	\$0.62	\$0.38	\$1.00	\$4.04	\$3.00	\$3.11	\$10.15	\$28.15	\$7,902,000.00
1989	\$0.72	\$0.38	\$1.10	\$4.04	\$3.30	\$3.16	\$10.50	\$30.30	\$8,216,000.00
1990	\$0.92	\$0.38	\$1.30	\$4.04	\$3.90	\$3.26	\$11.20	\$34.60	\$8,979,000.00
1991	\$0.93	\$0.41	\$1.34	\$4.24	\$4.02	\$3.14	\$11.40	\$35.52	\$9,588,000.00
1992	\$1.01	\$0.41	\$1.42	\$3.75	\$4.26	\$3.09	\$11.10	\$36.66	\$10,331,000.00
1993	\$1.09	\$0.41	\$1.50	\$3.10	\$4.50	\$3.75	\$11.35	\$38.35	\$11,773,000.00
1994	\$1.11	\$0.42	\$1.53	\$2.98	\$4.59	\$3.93	\$11.50	\$39.04	\$10,914,000.00
1995	\$1.07	\$0.42	\$1.49	\$3.00	\$4.47	\$4.58	\$12.05	\$38.87	\$11,349,000.00
1996	\$1.05	\$0.42	\$1.47	\$3.00	\$4.41	\$4.64	\$12.05	\$38.51	\$12,336,000.00
1997	\$1.05	\$0.45	\$1.50	\$3.00	\$4.50	\$4.92	\$12.42	\$39.42	\$12,163,500.00
1998	\$1.06	\$0.48	\$1.54	\$3.00	\$4.62	\$5.56	\$13.18	\$40.90	\$12,206,700.00
1999	\$0.99	\$0.48	\$1.47	\$3.00	\$4.41	\$5.40	\$12.81	\$39.27	\$12,744,500.00
2000	\$0.93	\$0.48	\$1.41	\$3.00	\$4.23	\$5.51	\$12.74	\$38.12	\$12,300,000.00
2001	\$0.84	\$0.48	\$1.32	\$3.00	\$3.96	\$5.62	\$12.58	\$36.34	\$14,744,000.00
2002	\$0.83	\$0.53	\$1.36	\$3.12	\$4.08	\$5.44	\$12.64	\$37.12	\$14,601,010.00
2003	\$0.85	\$0.55	\$1.40	\$3.12	\$4.20	\$5.44	\$12.76	\$37.96	\$14,707,890.00
2004	\$0.89	\$0.57	\$1.46	\$3.27	\$4.38	\$5.61	\$13.30	\$39.58	\$14,914,160.00
2005	\$0.89	\$0.64	\$1.53	\$3.91	\$4.59	\$4.94	\$13.50	\$41.04	\$15,165,010.00
2006	\$0.92	\$0.70	\$1.62	\$4.29	\$4.86	\$4.62	\$13.80	\$42.96	\$15,234,270.00
2007	\$0.92	\$0.77	\$1.69	\$4.80	\$5.07	\$4.63	\$14.50	\$44.92	\$15,523,730.00
2008	\$1.00	\$0.80	\$1.80	\$5.23	\$5.40	\$4.74	\$15.40	\$47.80	\$15,700,210.00
2009	\$1.05	\$0.84	\$1.89	\$5.41	\$5.67	\$5.33	\$16.40	\$50.42	\$13,977,596.00
2010	\$1.17	\$0.86	\$2.03	\$5.72	\$6.09	\$5.57	\$17.40	\$53.94	\$15,658,490.00
2011	\$1.33	\$0.91	\$2.24	\$6.52	\$6.72	\$5.06	\$18.30	\$58.62	\$16,355,716.00
2012	\$1.44	\$0.97	\$2.41	\$6.60	\$7.23	\$5.01	\$18.80	\$62.18	\$17,593,540.00
2013	\$1.60	\$1.02	\$2.62	\$6.67	\$7.86	\$5.07	\$19.60	\$66.76	\$17,183,170.00
2014	\$1.77	\$1.08	\$2.85	\$6.00	\$8.55	\$5.42	\$20.00	\$71.30	\$18,623,220.00
2015	\$2.07	\$1.23	\$3.30	\$6.59	\$9.90	\$5.41	\$21.90	\$81.30	\$20,000,120.00
2016	\$2.37	\$1.42	\$3.79	\$8.98	\$11.37	\$5.57	\$25.90	\$94.12	\$21,522,582.00
2017	\$2.58	\$1.73	\$4.31	\$9.00	\$12.93	\$5.56	\$27.60	\$105.18	\$24,325,816.00
2018	\$2.76	\$1.92	\$4.68	\$9.74	\$14.04	\$5.93	\$29.70	\$113.94	\$25,995,950.00
2019	\$2.91	\$2.13	\$5.04	\$10.72	\$15.12	\$5.90	\$31.70	\$122.42	\$28,754,196.00
2020	\$3.04	\$2.17	\$5.21	\$10.24	\$15.63	\$6.41	\$32.30	\$126.08	\$31,012,511.00
2021	\$3.23	\$2.11	\$5.34	\$11.52	\$16.02	\$6.66	\$34.10	\$130.22	\$31,176,695.00
2022	\$3.52	\$2.29	\$5.81	\$11.57	\$17.43	\$6.94	\$35.90	\$140.48	\$31,181,361.00
2023	\$3.83	\$2.29	\$6.12	\$11.55	\$18.36	\$8.02	\$37.90	\$148.06	\$34,384,298.00
%CHANGE	8.81	0.00	5.34	-0.17	5.34	15.56	5.57	5.40	10.27

NOTE:

- 1) GBMSD VOLUME CHARGE = Cost of treatment of 100 cu. ft. of sewage with an estimated strength 249/425/6.8/39.9 (BOD, Suspended Solids, Phosphorous, TKN)
NOTE: TKN billing parameter added 01/01/92.
- 2) CITY VOLUME CHARGE = Service charge (per 100 cu. ft.) for such items as administrative costs, sewer repair, maintenance charges, etc.
- 3) I/I CHARGE = Quarterly charge for infiltration/inflow.
- 4) MINIMUM VOLUME CHARGE = Total volume charge x 300 cu. ft./qtr.
- 5) BILLING CHARGE = Cost for water Department to prepare bill.
- 6) QUARTERLY CHARGE = (average residential customer) = 1800 cu. ft. x total volume charge + minimum charge.

12/9/21

SANITARY SEWER DISTRICT RATE HISTORY





Report to the
Improvement and Service Committee
of the City of Green Bay

MEETING DATE

December 14, 2022

PREPARED BY

AGENDA ITEM # D.3

Consideration with possible action on a request by Department of Public Works to adopt the Proposed 2023 Storm Sewer Rates.

BACKGROUND

RECOMMENDATION

FISCAL IMPACT

ATTACHMENTS

- I. 2023 Storm Rate Submittal to Committee

STORM WATER UTILITY

ACCOUNT NUMBER 205525 - XXXXX

Number of ERU's

79,250

DRAFT 2023 BUDGET

12/09/22

ACCOUNT #	TITLE	Amount
50001	REGULAR SALARIES	\$1,537,182
50501	OVERTIME	\$39,996
51201	HEALTH INSURANCE	\$334,507
51202	DENTAL INSURANCE	\$25,709
51203	LIFE INSURANCE	\$1,938
51204	LEVY SUPPORTED HEALTH INSURANCE	\$0
51210	SOCIAL SECURITY	\$95,474
51211	MEDICARE	\$22,352
51212	WORKER'S COMPENSATION	\$39,114
51301	WRS - EMPLOYER SHARE	\$107,274
51402	CLOTHING ALLOWANCE	\$3,000
51403	SAFETY GLASSES	\$1,500
51404	PERSONAL SUPPLIES	\$5,000
52001	TRAINING & TRAVEL	\$6,900
52003	DUES & BONDS	\$9,520
53001	CONTRACTUAL SERVICES	\$150,000
53002	COPY MACHINE	\$3,000
53014	LICENCES & PERMITS	\$51,600
53017	FINANCE SERVICES	\$401,000
53020	DATA PROCESSING SERVICES	\$50,000
53021	LEGAL FEES	\$3,000
53031	ENGINEERING / ADMINISTRATIVE	\$0
53040	SANITATION DISPOSAL CHARGES	\$200,000
53102	SEDIMENT CREDIT - GBP (New 2019)	\$344,556
53110	SEWER SAMPLING CHARGES	\$5,000
54001	MATERIALS & SUPPLIES	\$100,000
54007	PUBLIC EDUCATION	\$5,000
54010	GAS, OIL & LUBRICANT	\$61,000
55101	EQUIPMENT REPAIRS	\$200,000
55130	CITY EQUIPMENT USAGE	\$300,000
55140	EQUIPMENT REPLACEMENT	\$0
55150	NEW EQUIPMENT	\$0
55191	EQUIPMENT REPLACEMENT FUND	\$0
55320	DIKE MAINTENANCE	\$5,000
55358	PUMP STATION REPAIRS	\$100,000
56101	ELECTRICITY	\$110,000
56201	NATURAL GAS	\$110
56301	TELEPHONE	\$4,000
56302	CELL PHONES	\$7,000
56402	WATER	\$1,750
56403	SEWER	\$100
57098	DEPARTMENT INSURANCE CHARGES	\$21,851
59910	TRANSFER OUT - GENERAL FUND	\$470,000
59930	TRANSFER OUT - DEBT SERVICE	\$1,533,354
	TRANSFER OUT - FORESTRY DEBT SERVICE	\$0
59940	TRANSFER OUT - CAPITAL PROJECTS	\$2,888,110
	Subtotal	\$9,244,897
205670	TRANSFER OUT - FORESTRY FUNDING	\$1,422,856
		-\$6,248
	Subtotal w/ Forestry	\$10,661,505
	APPLIED SURPLUS	\$0
	APPLIED INTEREST REVENUE	\$0
	TOTAL	\$10,661,505

ERU charge(per year) **\$134.53**

ERU Charge(per month) **\$11.21**

ANNUAL BUDGET COMPARIS

ACCOUNT #	TITLE	2004		2005		2006		2007		2008		2009	2009	2010	2010	2011	2011	2012	2012	2013
		Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget
50001	REGULAR SALARIES	\$371,830.00	\$276,836.55	\$739,830.00	\$485,011.91	\$764,950.00	\$654,717.11	\$788,370.00	\$666,937.54	\$813,160.00	\$817,840.18	\$848,930.00	\$935,354.67	\$861,340	\$882,919	\$885,030	\$905,652	\$889,800	\$968,560	\$934,450
50501	OVERTIME	\$128,860.00	\$107,004.50	\$150,740.00	\$63,096.59	\$166,820.00	\$87,529.90	\$168,100.00	\$111,048.74	\$150,160.00	\$106,913.90	\$153,300.00	\$108,632.21	\$153,640	\$86,203	\$154,480	\$22,417	\$144,000	\$3,965	\$40,000
51201	HEALTH INSURANCE	\$114,130.00	\$73,560.97	\$259,930.00	\$148,835.27	\$219,500.00	\$250,203.52	\$216,120.00	\$271,770.16	\$262,520.00	\$281,361.09	\$263,870.00	\$273,001.30	\$252,990	\$151,358	\$255,530	\$165,177	\$251,360	\$248,256	\$243,160
51202	DENTAL INSURANCE	\$7,730.00	\$6,703.62	\$18,970.00	\$12,978.85	\$17,810.00	\$21,020.93	\$17,410.00	\$21,090.40	\$18,430.00	\$20,185.31	\$18,420.00	\$19,038.39	\$18,890	\$11,373	\$19,480	\$13,083	\$19,310	\$18,864	\$20,430
51203	LIFE INSURANCE	\$870.00	\$807.77	\$2,070.00	\$1,242.47	\$1,650.00	\$1,980.00	\$1,680.00	\$2,016.00	\$1,620.00	\$1,213.12	\$1,680.00	\$2,281.21	\$1,680	\$1,483	\$1,870	\$2,345	\$1,900	\$1,970	\$1,860
51204	LEVY SUPPORTED HEALTH INSURANCE																			\$14,380
51210	SOCIAL SECURITY	\$24,840.00	\$22,473.53	\$55,220.00	\$31,005.66	\$50,580.00	\$42,911.33	\$51,370.00	\$43,299.29	\$50,430.00	\$53,638.24	\$62,140.00	\$58,659.98	\$62,930	\$57,170	\$64,450	\$54,099	\$64,100	\$56,592	\$66,870
51211	MEDICARE	\$5,830.00	\$5,510.37	\$12,920.00	\$7,906.05	\$11,830.00	\$10,612.38	\$12,010.00	\$11,108.76	\$11,800.00	\$13,170.68	\$14,530.00	\$14,985.16	\$14,720	\$14,387	\$15,080	\$13,271	\$15,000	\$13,516	\$15,640
51212	WORKER'S COMPENSATION	\$5,000.00	\$0.00	\$22,000.00	\$0.00	\$13,000.00	\$5,676.66	\$24,400.00	\$9,980.51	\$26,800.00	\$68,718.98	\$28,480.00	-\$13,817.43	\$22,950	-\$23,373	\$19,090	\$77,132	\$23,570	\$0	\$26,050
51301	WRS - EMPLOYER SHARE	\$39,240.00	\$31,673.77	\$90,840.00	\$50,810.11	\$84,610.00	\$64,850.33	\$87,820.00	\$67,607.07	\$86,210.00	\$82,237.75	\$104,230.00	\$88,152.42	\$111,650	\$90,456	\$120,590	\$68,574	\$61,000	\$50,104	\$70,410
51401	CAR ALLOWANCE			\$0.00	\$87.99	\$0.00	\$1,182.99	\$0.00	\$365.87		\$0.00									\$8
51402	CLOTHING ALLOWANCE					\$0.00	\$200.95	\$0.00	\$316.52											\$85
51404	PERSONAL SUPPLIES							\$0.00	\$100.00											
51403	SAFETY GLASSES	-	-	-	-	-	-	-	-	-	-	-		\$1,000	\$232	\$1,000	\$0	\$1,000	\$0	\$1,000
51404	PERSONAL SUPPLIES	-	-	-	-	-	-	-	-	-	-	-		\$3,000	\$0	\$3,000	\$0	\$3,000	\$0	\$3,000
52001	TRAINING & TRAVEL	\$0.00		\$0.00		\$0.00	\$1,139.64	\$0.00	\$6.01	\$2,000.00	\$33.58	\$0.00	\$320.00	\$1,000	\$435	\$250	\$250	\$250	\$414	\$23,000
52003	DUES & BONDS	-	-	-	-	-	-	-	-	-	-	\$4,500.00	\$4,500.00	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
53001	CONTRACTUAL SERVICES	\$12,500.00	\$3,500.00	\$25,000.00	\$3,900.00	\$25,000.00	\$11,124.88	\$68,640.00	\$69,531.55	\$70,020.00	\$68,065.42	\$355,220.00	\$162,372.54	\$67,800	\$61,156	\$77,500	\$29,044	\$177,500	\$43,409	\$63,500
53002	COPY MACHINE	-	-	-	-	-	-	-	-	-	-	-	\$345.47	\$2,500	\$787	\$3,000	\$949	\$3,000	\$214	\$1,500
53014	LICENCES & PERMITS	-	-	-	-	-	-	-	-	-	-	\$12,000.00	\$12,000.00	\$12,000	\$12,000	\$12,000	\$12,000	\$13,750	\$13,750	\$13,750
53017	FINANCE SERVICES	\$95,000.00	\$0.00	\$200,000.00	\$180,000.00	\$200,000.00	\$207,462.05	\$210,000.00	\$200,000.00	\$210,000.00	\$235,869.35	\$220,000.00	\$216,000.00	\$230,000	\$225,000	\$250,000	\$250,000	\$240,000	\$225,000	\$225,000
53020	DATA PROCESSING SERVICES	-	-	-	-	-	-	-	-	-	-	-		\$13,190	\$6,914	\$13,190	\$6,883	\$10,000	\$6,896	\$10,000
53021	LEGAL FEES																			
53031	ENGINEERING/ADMINISTRATIVE SERVICES																			
53040	SANITATION DISPOSAL CHARGES	-	-	-	-	-	-	-	-	-	-	-		\$387,600	\$0	\$397,800	\$0	\$200,000	\$251,941	\$200,000
53102	SEDIMENT CREDIT - GBP (New 2019)																			
53110	SEWER SAMPLING CHARGES	\$5,000.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$0.00	\$10,000.00	\$206.60	\$10,000.00	\$0.00	\$10,000.00		\$10,000	\$2,267	\$10,000	\$0	\$5,000	\$0	\$5,000
53112	SEWER SERVICE RATE STABILIZATION	\$873,990.00	\$0.00	\$134,700.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0	\$0	\$0	\$0	\$0	\$0	0
54001	MATERIALS & SUPPLIES	\$25,000.00	\$23,304.94	\$50,000.00	\$45,104.10	\$50,000.00	\$16,191.14	\$50,000.00	\$24,473.34	\$50,000.00	\$59,395.51	\$84,750.00	\$42,005.39	\$75,000	\$40,493	\$60,000	\$50,624	\$60,000	\$40,616	\$60,000
54007	PUBLIC EDUCATION																			
54010	GAS, OIL & LUBRICANT	\$0.00		\$1,000.00	\$2,721.41	\$5,000.00	\$4,743.54	\$10,000.00	\$19,785.67	\$10,000.00	\$31,500.97	\$40,000.00	\$19,827.41	\$60,000	\$29,888	\$45,000	\$39,799	\$45,000	\$44,018	\$45,000
55101	EQUIPMENT REPAIRS	\$0.00		\$1,000.00	\$5,200.84	\$5,000.00	\$7,527.06	\$17,500.00	\$30,044.19	\$17,500.00	\$41,576.68	\$40,000.00	\$37,667.62	\$60,000	\$63,099	\$60,000	\$62,974	\$70,000	\$91,935	\$100,000
55130	CITY EQUIPMENT USAGE	\$265,000.00	\$277,038.72	\$530,000.00	\$324,542.00	\$543,000.00	\$450,159.40	\$510,000.00	\$460,656.03	\$510,000.00	\$438,171.37	\$475,000.00	\$401,331.97	\$435,000	\$385,274	\$450,000	\$341,649	\$450,000	\$194,759	\$450,000
55140	EQUIPMENT REPLACEMENT	\$0.00		\$145,500.00	\$128,125.88	\$145,000.00	\$139,597.28	\$166,000.00	\$158,099.95	\$2,000.00	\$0.00	\$0.00		\$0	\$0	\$0	\$6,316	\$0	\$0	\$0
55150	NEW EQUIPMENT	\$0.00		\$0.00		\$0.00	\$0.00	\$14,000.00	\$8,732.60	\$5,000.00	\$4,197.00	\$0.00		\$2,000	\$0	\$0	\$0	\$0	\$0	\$0
55191	EQUIPMENT REPLACEMENT FUND	\$0.00		\$0.00		\$17,160.00	\$0.00	\$35,820.00	\$0.00	\$56,540.00	\$0.00	\$56,540.00		\$0	\$0	\$0	\$0	\$0	\$0	\$0
55320	DIKE MAINTENANCE	\$0.00		\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000.00	\$0.00	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000
55358	PUMP STATION REPAIR (NEW 2018)																			
56101	ELECTRICITY	\$12,500.00	\$2,454.72	\$25,000.00	\$19,920.29	\$27,750.00	\$23,794.66	\$29,310.00	\$22,438.93	\$29,310.00	\$30,246.53	\$31,590.00	\$30,558.87	\$34,040	\$42,695	\$36,400	\$44,330	\$45,000	\$32,102	\$56,000
56201	NATURAL GAS	\$150.00	\$0.00	\$300.00	\$0.00	\$310.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100	\$0	\$110	\$0	\$110	\$0	\$110
56301	TELEPHONE																			
56302	CELL PHONES	\$750.00	\$0.00	\$1,000.00	\$106.59	\$1,000.00	\$0.00	\$750.00	\$0.00	\$750.00	\$0.00	\$750.00	\$0.00	\$750	\$0	\$1,650	\$0	\$1,650	\$0	\$1,650
56402	WATER	\$100.00	\$0.00	\$200.00	\$0.00	\$220.00	\$0.00	\$200.00	\$0.00	\$200.00	\$0.00	\$200.00	\$0.00	\$200	\$0	\$200	\$0	\$200	\$0	\$200
56403	SEWER	\$50.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100.00	\$0.00	\$100	\$0	\$100	\$0	\$100	\$0	\$100
57098	DEPARTMENT INSURANCE CHARGES	\$2,820.00	\$0.00	\$5,720.00	\$5,070.00	\$6,780.00	\$7,464.00	\$7,230.00	\$8,419.00	\$6,410.00	\$11,878.04	\$6,640.00	\$6,151.75	\$7,740	\$14,133	\$7,900	\$6,150	\$15,000	\$6,360	\$1,670
59910	TRANSFER OUT - GENERAL FUND																			\$200,000
59930	TRANSFER OUT - DEBT SERVICE	\$0.00		\$65,340.00	\$65,337.00	\$108,110.00	\$382,767.00	\$166,670.00	\$166,669.00	\$204,000.00	\$204,000.00	\$210,380.00	\$286,970.81	\$302,770	\$302,766	\$427,650	\$422,391	\$432,540	\$424,929	\$394,050
59940	TRANSFER OUT - CAPITAL PROJECTS	\$0.00		\$1,430,000.00	\$1,430,000.00	\$1,500,000.00	\$1,500,000.00	\$1,500,000.00	\$1,500,000.00	\$1,650,000.00	\$1,759,520.00	\$1,750,000.00	\$1,806,540.00	\$2,041,160	\$2,041,160	\$2,178,280	\$2,178,280	\$2,256,260	\$2,268,433	\$2,220,990
	FORESTRY CAPITAL (CREDIT)	\$0.00	\$0.00	\$0.00	\$9.93															
205670	TRANSFER OUT - FORESTRY FUNDING																			
	APPLIED SURPLUS													-\$200,000	\$0	-\$365,000	\$0	-\$294,000	\$0	-\$303,370
	APPLIED INTEREST REVENUE																			
	TOTAL	\$1,991,190.00	\$830,869.46	\$3,982,380.00	\$3,011,003.01	\$3,980,180.00	\$3,892,856.75	\$4,168,600.00	\$3,874,703.73	\$4,260,060.00	\$4,329,733.70	\$4,798,350.00	\$4,512,879.74	\$5,057,240.00	\$4,504,776.02	\$5,215,130.00	\$4,777,889.38	\$5,214,900.00	\$5,011,195.76	\$5,214,900.00
	Equivalent Runoff Units (ERU's)	39,000		78,000		75,500		75,500		73,500		73,000		74,000		74,000		74,000		74,000
	ERU charge(per year)	\$51.00		\$51.00		\$52.68		\$55.20		\$57.96		\$65.73		\$68.34		\$70.47		\$70.47		\$70.47
	ERU Charge(per month)	\$4.25		\$4.25		\$4.39		\$4.60		\$4.83		\$5.48		\$5.70		\$5.87		\$5.87		\$5.87

ACCOUNT #	TITLE	2013 Actual	2014 Budget	2014 Actual	2015 Budget	2015 Actual	2016 Budget	2016 Actual	2017 Budget	2017 Actual	2018 Budget	2018 Actual	2019 Budget	2019 Actual	2020 Budget	2020 Actual	2021 Proposed Budget	2022 Proposed Budget	2023 Proposed Budget
50001	REGULAR SALARIES	\$993,514	\$945,230	\$1,030,914	\$1,073,670	\$1,293,193	\$1,108,778	\$1,091,213	\$1,131,498	\$1,239,881	\$1,162,066	\$772,176	\$1,265,315	\$818,045	\$1,344,840	\$849,588	\$1,449,296	\$1,487,466	\$1,537,182
50501	OVERTIME	\$32,287	\$40,000	\$4,478	\$40,000	\$14,043	\$39,996	\$10,936	\$40,000	\$11,757	\$39,996	\$7,964	\$39,996	\$15,918	\$39,996	\$10,320	\$39,996	\$39,996	\$39,996
51201	HEALTH INSURANCE	\$242,620	\$251,810	\$251,936	\$281,200	\$284,248	\$246,737	\$255,663	\$268,694	\$288,909	\$259,141	\$161,114	\$298,600	\$154,193	\$307,597	\$159,209	\$298,045	\$327,811	\$334,507
51202	DENTAL INSURANCE	\$20,046	\$21,540	\$20,414	\$22,670	\$23,382	\$21,470	\$21,476	\$21,614	\$24,119	\$22,240	\$13,689	\$23,822	\$14,962	\$26,960	\$15,803	\$27,868	\$27,836	\$25,709
51203	LIFE INSURANCE	\$1,747	\$2,170	\$1,273	\$1,720	\$1,914	\$1,656	\$1,572	\$1,937	\$2,072	\$2,047	\$1,275	\$2,155	\$1,372	\$2,280	\$3,476	\$2,206	\$1,882	\$1,938
51204	LEVY SUPPORTED HEALTH INSURANCE	\$14,348	\$13,490	\$2,897	\$10,290	\$13,746	\$10,070	\$10,593	\$8,610	\$10,005	\$7,630	\$8,088	\$5,540	\$6,544	\$3,690	\$6,199	\$2,680	\$0	\$0
51210	SOCIAL SECURITY	\$58,528	\$61,090	\$62,193	\$66,430	\$74,725	\$68,762	\$64,342	\$70,072	\$73,591	\$72,065	\$45,896	\$78,142	\$49,539	\$82,988	\$53,864	\$89,557	\$92,323	\$95,474
51211	MEDICARE	\$14,211	\$14,290	\$14,668	\$15,550	\$17,725	\$16,079	\$15,202	\$16,381	\$17,349	\$16,875	\$10,841	\$18,297	\$11,585	\$19,427	\$12,598	\$20,967	\$21,616	\$22,352
51212	WORKER'S COMPENSATION	\$0	\$19,530	\$59,486	\$12,630	\$10,386	\$12,010	\$0	\$24,485	\$0	\$22,410	\$12,226	\$19,150	\$107,679	\$16,728	\$2,182	\$48,288	\$37,174	\$39,114
51301	WRS - EMPLOYER SHARE	\$55,228	\$68,830	\$66,247	\$75,680	\$86,570	\$75,817	\$72,470	\$79,752	\$85,162	\$80,565	\$52,188	\$85,531	\$54,595	\$93,508	\$61,120	\$100,558	\$99,313	\$107,274
51401	CAR ALLOWANCE	\$0				\$0											\$0	\$0	\$0
51402	CLOTHING ALLOWANCE	\$170		\$450		\$300	\$3,000	\$90	\$3,000	\$0	\$3,000	\$1,543	\$3,000	\$1,500	\$3,000	\$1,532	\$3,000	\$3,000	\$3,000
51404	PERSONAL SUPPLIES	\$0				-													\$0
51403	SAFETY GLASSES	\$623	\$1,000	\$151	\$1,000	\$0	\$1,000	\$723	\$1,500	\$316	\$1,500	\$469	\$1,500	\$203	\$1,500	\$384	\$1,500	\$1,500	\$1,500
51404	PERSONAL SUPPLIES	\$0	\$3,000	\$0	\$3,000	\$1,500	\$0	\$0	\$5,000	\$1,593	\$5,000	\$1,214	\$5,000	\$2,665	\$5,000	\$1,269	\$5,000	\$5,000	\$5,000
52001	TRAINING & TRAVEL	\$1,810	\$1,000	\$763	\$1,000	\$2,631	\$5,000	\$666	\$8,000	\$2,722	\$6,000	\$2,686	\$10,900	\$5,135	\$5,900	\$1,500	\$9,275	\$5,900	\$6,900
52003	DUES & BONDS	\$4,500	\$4,500	\$4,500	\$4,500	\$4,540	\$4,500	\$5,100	\$5,500	\$5,450	\$6,500	\$4,430	\$5,500	\$4,450	\$6,000	\$4,605	\$6,000	\$6,000	\$9,520
53001	CONTRACTUAL SERVICES	\$89,050	\$70,000	\$13,953	\$70,000	\$11,892	\$250,000	\$106,631	\$250,000	\$40,552	\$250,000	\$101,569	\$150,000	\$98,103	\$100,000	\$95,641	\$200,000	\$150,000	\$150,000
53002	COPY MACHINE	\$736	\$1,500	\$665	\$1,500	\$749	\$1,500	\$669	\$1,550	\$2,167	\$1,600	\$2,924	\$1,600	\$3,568	\$3,000	\$3,003	\$3,000	\$3,000	\$3,000
53014	LICENCES & PERMITS	\$13,750	\$16,000	\$12,000	\$16,000	\$13,916	\$16,200	\$16,038	\$27,000	\$26,314	\$40,700	\$30,941	\$40,700	\$33,156	\$47,000	\$35,786	\$48,000	\$46,100	\$51,600
53017	FINANCE SERVICES	\$258,055	\$275,000	\$278,107	\$270,000	\$272,259	\$280,000	\$314,850	\$280,000	\$248,233	\$300,000	\$310,571	\$300,000	\$317,118	\$350,000	\$361,188	\$350,000	\$375,000	\$401,000
53020	DATA PROCESSING SERVICES	\$13,064	\$15,500	\$14,371	\$15,500	\$32,433	\$27,000	\$20,247	\$35,000	\$28,941	\$24,750	\$26,456	\$28,000	\$33,893	\$36,673	\$45,876	\$36,673	\$40,000	\$50,000
53021	LEGAL FEES										\$0	\$2,510		\$700	\$3,000	\$0	\$3,000	\$3,000	\$3,000
53031	ENGINEERING/ADMINISTRATIVE SERVICES				\$0	\$5,386		\$4,805	\$10,000	\$4,659	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
53040	SANITATION DISPOSAL CHARGES	\$0	\$200,000	\$0	\$200,000	\$348,767	\$200,000	\$200,000	\$200,000	\$1,631	\$200,000	\$0	\$200,000	\$423,022	\$200,000	\$0	\$200,000	\$200,000	\$200,000
53102	SEDIMENT CREDIT - GBP (New 2019)												\$0	\$150,000	\$0	\$275,000	\$324,777	\$334,525	\$344,556
53110	SEWER SAMPLING CHARGES	\$0	\$5,000	\$0	\$5,000	\$510	\$5,000	\$5,000	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$5,000	\$5,000
53112	SEWER SERVICE RATE STABILIZATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54001	MATERIALS & SUPPLIES	\$54,204	\$60,000	\$30,736	\$60,000	\$29,962	\$60,000	\$60,777	\$75,000	\$66,312	\$75,000	\$73,800	\$75,000	\$63,046	\$102,891	\$78,449	\$75,000	\$100,000	\$100,000
54007	PUBLIC EDUCATION								\$5,000	\$430	\$5,000	\$1,779	\$5,000	\$2,607	\$5,000	\$2,978	\$5,000	\$5,000	\$5,000
54010	GAS, OIL & LUBRICANT	\$46,320	\$45,000	\$49,252	\$50,000	\$48,001	\$50,000	\$38,771	\$50,000	\$48,959	\$50,000	\$56,777	\$57,500	\$53,712	\$61,000	\$37,218	\$61,000	\$61,000	\$61,000
55101	EQUIPMENT REPAIRS	\$71,147	\$125,000	\$63,926	\$125,000	\$117,057	\$125,000	\$158,264	\$175,000	\$112,385	\$150,000	\$99,359	\$150,000	\$98,131	\$150,000	\$152,912	\$200,000	\$200,000	\$200,000
55130	CITY EQUIPMENT USAGE	\$169,573	\$300,000	\$319,745	\$300,000	\$250,732	\$300,000	\$76,718	\$300,000	\$140,523	\$300,000	\$231,065	\$300,000	\$269,582	\$300,000	\$216,937	\$300,000	\$300,000	\$300,000
55140	EQUIPMENT REPLACEMENT	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0	\$1,430	\$0	\$0	\$0	\$2,859	\$0	\$0	\$0
55150	NEW EQUIPMENT	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0
55191	EQUIPMENT REPLACEMENT FUND	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0
55320	DIKE MAINTENANCE	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$5,000	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$5,000	\$5,000
55358	PUMP STATION REPAIR (NEW 2018)										\$100,000	\$12,729	\$100,000	\$27,780	\$100,000	\$44,197	\$100,000	\$100,000	\$100,000
56101	ELECTRICITY	\$43,308	\$60,150	\$44,699	\$65,500	\$48,589	\$71,860	\$44,255	\$71,860	\$42,643	\$76,660	\$45,477	\$98,260	\$60,585	\$106,000	\$56,671	\$106,000	\$106,000	\$110,000
56201	NATURAL GAS	\$0	\$110	\$0	\$110	\$0	\$110	\$0	\$110	\$0	\$110	\$0	\$110	\$0	\$110	\$0	\$110	\$110	\$110
56301	TELEPHONE						\$0	\$0	\$1,000	\$0	\$4,000	\$57	\$4,000	\$0	\$4,000	\$0	\$4,000	\$4,000	\$4,000
56302	CELL PHONES	\$0	\$1,650	\$0	\$1,650	\$499	\$1,650	\$2,964	\$4,200	\$3,685	\$5,000	\$1,996	\$5,000	\$2,559	\$5,000	\$3,043	\$7,000	\$7,000	\$7,000
56402	WATER	\$0	\$200	\$69	\$200	\$0	\$200	\$0	\$200	\$839	\$1,500	\$0	\$1,635	\$385	\$1,725	\$1,749	\$1,725	\$1,750	\$1,750
56403	SEWER	\$0	\$100	\$0	\$100	\$0	\$100	\$0	\$100	\$0	\$100	\$0	\$100	\$0	\$100	\$0	\$100	\$100	\$100
57098	DEPARTMENT INSURANCE CHARGES	\$5,320	\$6,950	\$5,563	\$6,330	\$15,251	\$7,230	\$18,486	\$14,010	\$6,165	\$10,747	\$5,950	\$14,574	\$12,392	\$17,155	\$11,434	\$18,020	\$18,829	\$21,851
59910	TRANSFER OUT - GENERAL FUND	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$470,000	\$470,000	\$470,000	\$470,000	\$470,000	\$470,000	\$470,000
59930	TRANSFER OUT - DEBT SERVICE	\$394,047	\$686,850	\$519,850	\$414,600	\$513,895	\$561,852	\$561,852	\$561,329	\$598,701	\$561,329	\$855,272	\$814,460	707930.12+15586	\$814,460	\$1,142,116	\$1,498,273	\$1,415,895	\$1,533,354
59940	TRANSFER OUT - CAPITAL PROJECTS	\$2,220,990	\$2,178,600	\$2,178,600	\$2,249,190	\$2,249,190	\$1,437,323	\$1,437,323	\$1,776,370	\$1,776,370	\$2,062,440	\$2,062,440	\$2,462,060	\$2,462,060	\$3,147,230	\$3,147,230	\$2,421,980	\$2,412,980	\$2,888,110
	FORESTRY CAPITAL (CREDIT)		-\$485,190		-\$450,120		\$0	\$0	\$0		\$0		\$0						
205670	TRANSFER OUT - FORESTRY FUNDING														\$1,189,853	\$1,129,929	\$1,250,866	\$1,371,585	\$1,416,608
	APPLIED SURPLUS	\$0		\$0											\$0	\$0	\$0	\$0	\$0
	APPLIED INTEREST REVENUE														-\$75,000	-\$75,000	-\$75,000	\$0	\$0
	TOTAL	\$5,019,198.17	\$5,214,900.00	\$5,251,907.28	\$5,214,900.00	\$5,987,988.82	\$5,214,900.00	\$4,822,694.79	\$5,733,772.00	\$3,860,796.59	\$6,135,971.00	\$4,438,760.35	\$7,300,447.00	\$4,846,819.98	\$9,383,611.00	\$8,147,862.89	\$9,723,760.00	\$9,892,691.00	\$10,661,505.00
	Equivalent Runoff Units (ERU's)		74,000		74,000		74,000		74,000		74,000		79,250		79,250		79,250	79,250	79,250
	ERU charge(per year)		\$70.47		\$70.47		\$70.47		\$77.48		\$82.92		\$92.12		\$118.41		\$122.70	\$124.83	\$134.53
	ERU Charge(per month)		\$5.87		\$5.87		\$5.87		\$6.46		\$6.91		\$7.68		\$9.87		\$10.22	\$10.40	\$11.21

STORM WATER UTILITY BUDGET

