

AGENDA
GREEN BAY METROPOLITAN SEWERAGE DISTRICT
COMMISSION MEETING

August 25, 2021

Via Zoom Videoconference

***(If a member of the public or a customer would like to participate in the meeting Via Zoom,
please contact NEW Water at 920-432-4893 for access to the videoconference)***

8:30 a.m.

Vision: Protecting our most valuable resource, water

- 1) Safety moment. (T. Sigmund)
- 2) Nicolet National Bank investment update. (B. Vander Loop)
- 3) 2022 Budget workshop. (T. Sigmund)
[Click Here: Memo](#)
[Click Here: Budget Workshop Presentation](#)
- 4) Convene in closed session under State Statute 19.85 (1) (g) for the purpose of conferring with legal counsel for the Commission who is rendering oral or written advice concerning strategy to be adopted by the Commission with respect to litigation in which it is or is likely to become involved:
 - a) Litigation involving Bayview Interceptor
 - b) Potential litigation resulting from the failure of the granulated activated carbon system of the fluidized bed incinerator
 - c) Potential litigation resulting from wastewater spillage during construction of the Dutchman Creek Interceptor stream crossings
- 5) Reconvene in open session.
- 6) Approval of minutes of Commission meeting held July 28, 2021.
- 7) July financials. (B. Weller-Titus)
[Click Here: Memo](#)
[Click Here: Income Statement](#)
[Click Here: Income Statement Legends](#)
[Click Here: Statements of Net Position](#)
[Click Here: Statements of Net Position Legends](#)
- 8) Sewer plan approvals: (B. Angoli)
[Click Here: Memo](#)
 - a) Village of Howard Project #21004; GBMSD Request #2021-20
[Click Here: Village of Howard Map](#)
[Click Here: NEW Water Map](#)
 - b) City of De Pere 2021 Sanitary Sewer Extension Amendment; GBMSD Request #2021-21
[Click Here: City of De Pere Map](#)

[Click Here: NEW Water Map](#)

c) Village of Pulaski – Contract No. 0295-21-02; GBMSD Request #2021-22

[Click Here: Village of Pulaski Map](#)

[Click Here: NEW Water Map](#)

- 9) 2020 safety statistics. (A. Butry)
[Click Here: Memo](#)
- 10) Commission meeting organization and content. (T. Sigmund)
[Click Here: Memo](#)
- 11) Update of projects: (B. Angoli)
a) Effluent Reuse Pump Station and Force Main
[Click Here: Project Report](#)
- 12) July 2021 Operations report. (P. Wescott)
[Click Here: Memo](#)
[Click Here: Effluent Report – Green Bay Facility](#)
[Click Here: Graph of Effluent Report – Green Bay Facility](#)
[Click Here: Effluent Report – De Pere Facility](#)
[Click Here: Graph of Effluent Report – De Pere Facility](#)
[Click Here: R2E2 Energy Report](#)
[Click Here: R2E2 Energy Graph](#)
- 13) Executive Director's report: (T. Sigmund)
[Click Here: Memo](#)
a) September Commission meeting
b) Executive Director approved agreements
c) NEW Water Policies
d) COVID-19 update
e) STEAM Superheroes camp
f) Heavy rainfall update

Memorandum

TO: Commission

FROM: Tom Sigmund

DATE: August 18, 2021

SUBJECT: Draft 2022 NEW Water Budget

Attached is the draft 2021 NEW Water budget for your consideration. The budget will be discussed at the August 25, 2021 Commission meeting. I plan to present the attached PowerPoint presentation titled "2022 Budget First Workshop" to guide the discussion. The detailed draft 2022 Budget is also attached.

A brief summary of the budget shows an increase in total budgeted expenses of 2.3 percent over the 2021 budget. Proposed Operations and Maintenance (O&M) expenses have increased by 3.1 percent and capital expenditures have increased by 1.5 percent.

The 2022 budget includes collection of \$1,200,000 that will be used to reduce the impact of future rate increases due to increased debt service needed to support capital projects beginning in 2023.

The main drivers of the O&M budget are: Increases in the cost and amount of chemicals used, market-based and merit-based salary adjustments, increases in health insurance costs, and travel and meetings. Decreases are seen in maintenance and repairs, power, and contracted services.

I welcome any questions or comments you have on the proposed budget. I believe it is a good representation of needed expenditures for 2022.

Attachment





Commission

2022 Budget Workshop

August 25, 2021



NEW Water

The brand of the Green Bay
Metropolitan Sewerage District



*Protecting our most valuable
resource, water*





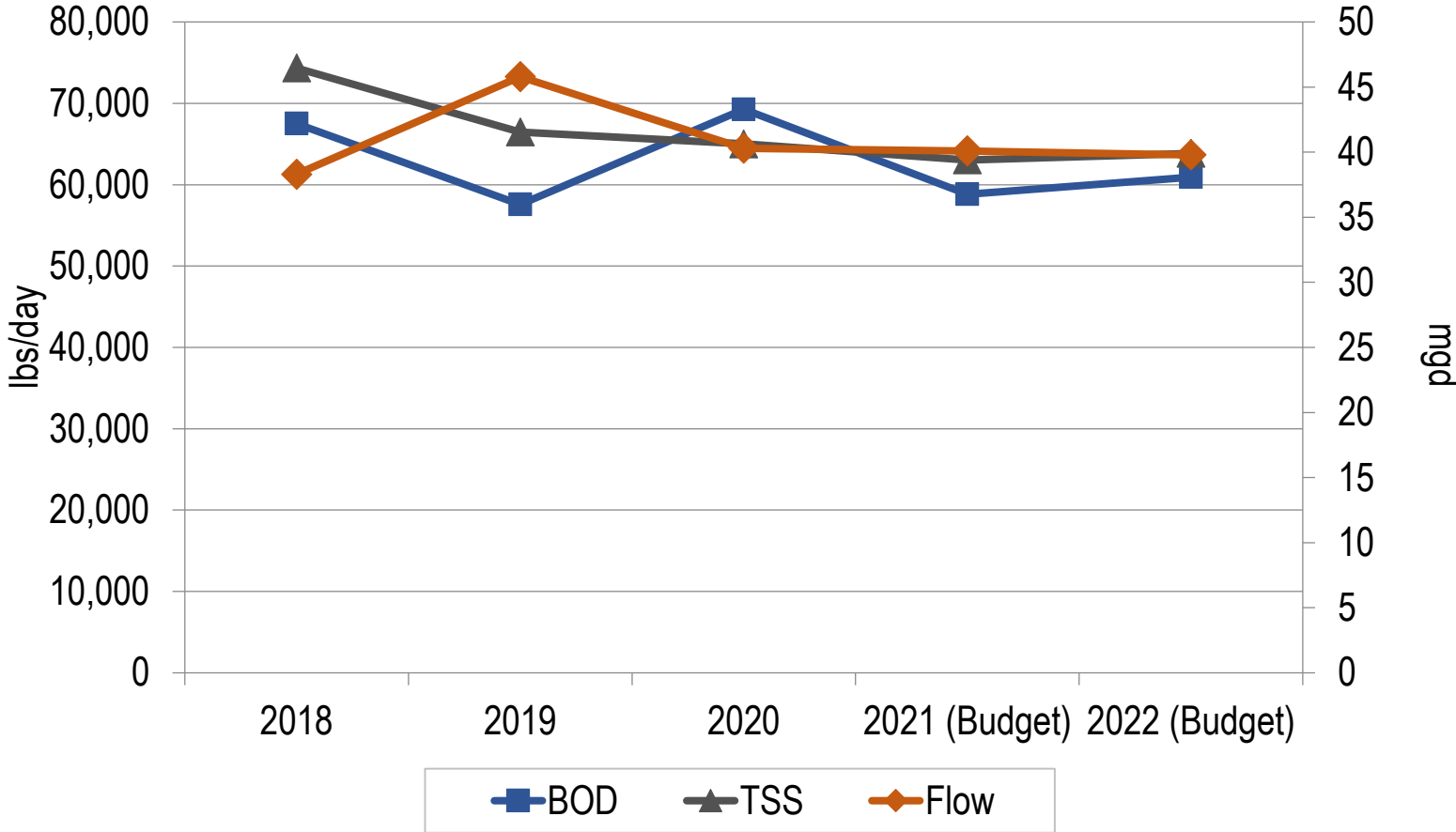
2021 Budget Update (through July)

- Overall operating revenue at 100% of budget
- Overall operating expense at 93% of budget
- Expect to finish 2021 slightly ahead of operating revenue and close to budget for operating expense
- Finished 2020 at 109% of operating revenue budget and 105% of operating expense budget

Proposed 2022 Budget

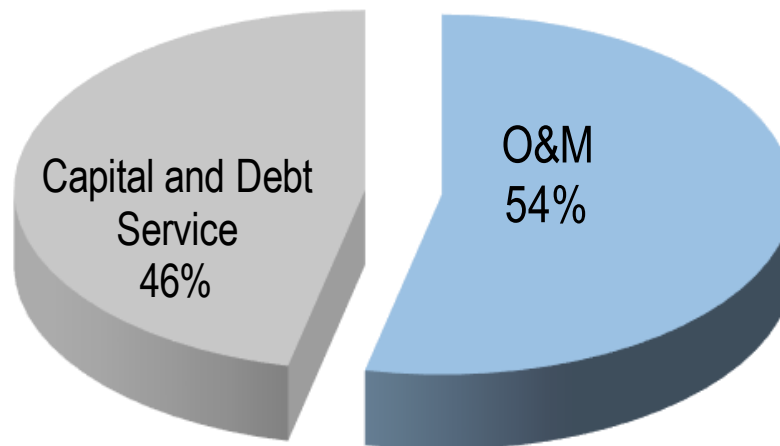


Flows and Loads



2022 Proposed Expenses

Budget Category	2021 Budget	2022 Budget
Operations & Maintenance (O&M)	\$23,520,731	\$24,247,332
Debt Service and Annual Capital	\$20,759,657	\$21,062,196
Total Expenses	\$44,280,388	\$45,309,528



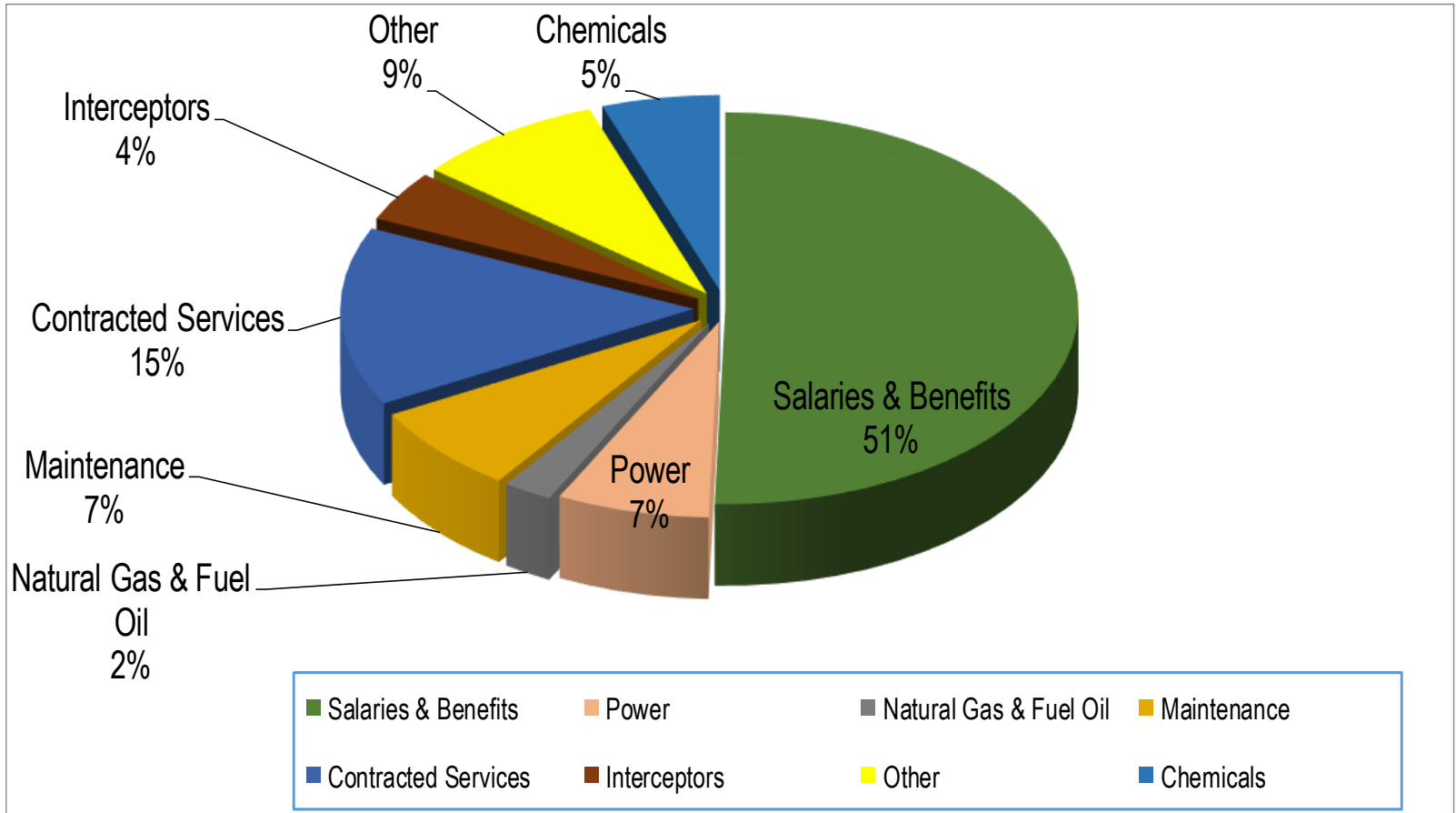
2022 O&M Expenses

Broad Categories	2021 Budget	2022 Budget
Salaries & Benefits	\$11,841,659	\$12,238,911
Power	\$1,764,594	\$1,693,501
Natural Gas & Fuel Oil	\$418,044	\$547,203
Chemicals	\$935,120	\$1,310,389
Maintenance – Plant	\$2,153,598	\$1,763,061
Interceptors	\$849,521	\$1,013,894
Contracted Services	* \$3,627,408	** \$3,576,396
Solid Waste Disposal	\$282,468	\$333,651
Insurance	\$346,936	\$411,084
Administrative	\$1,301,383	\$1,359,243
Total O&M Expenses	\$23,520,731	\$24,247,332

* \$253,471 of this cost to be offset by grants (2021)

** \$365,706 of this cost to be offset by grants (2022)

2022 O&M Expense Distribution





2022 Salaries & Benefits

- Assumed 10% increase in health insurance premiums
- WRS contribution rate reduced from 6.75% to 6.5%
- Assumed 3.0% market adjustment to base wages
- Annual step increase for employees in Zone 1
- Pay for performance in place for employees in Zones 2 & 3



2022 Contracted Services

- Watershed management implementation - \$1,300K; grants to offset \$370K
- Legal services - \$340K
- Biogas engine service agreement - \$390K
- NR 101 fees - \$140K
- Biosolids handling evaluation - \$220K
- I/I reduction program implementation - \$100K



2022 Major Capital Projects

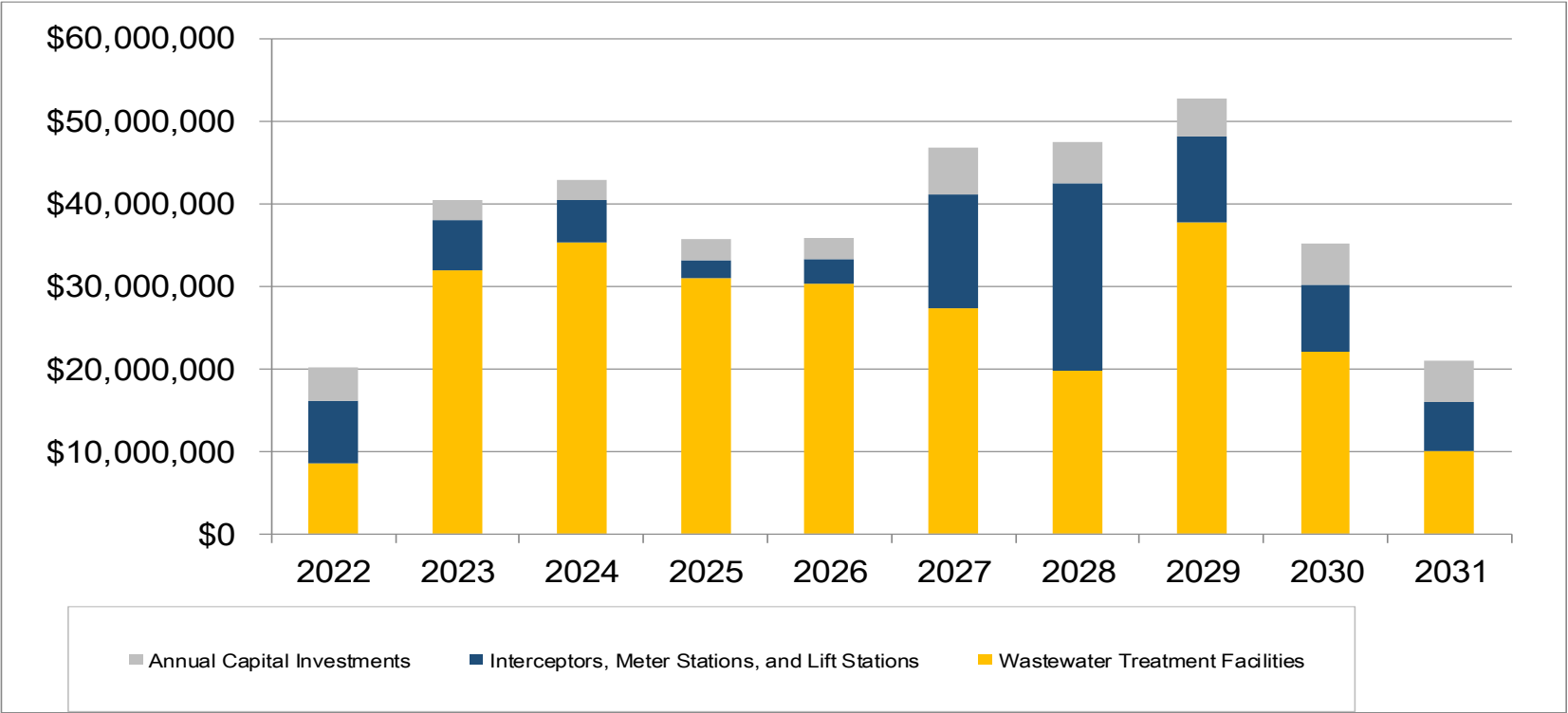
- GBF Thickening improvements- \$16M
- DPF Tertiary Filter replacement - \$7M
- East River Interceptor rehabilitation – \$4M
- Ninth Street Interceptor extension - \$1M
- East River Lift Station upsizing & rehabilitation - \$2M



2022 Annual Capital

- GBF air handling units replacement
- GBF thickener effluent pipe replacement
- GBF service water pipe replacement
- GBF ferric chloride pumping system replacement
- Ninth Street Interceptor rehabilitation

Proposed Long-Term Capital Projects





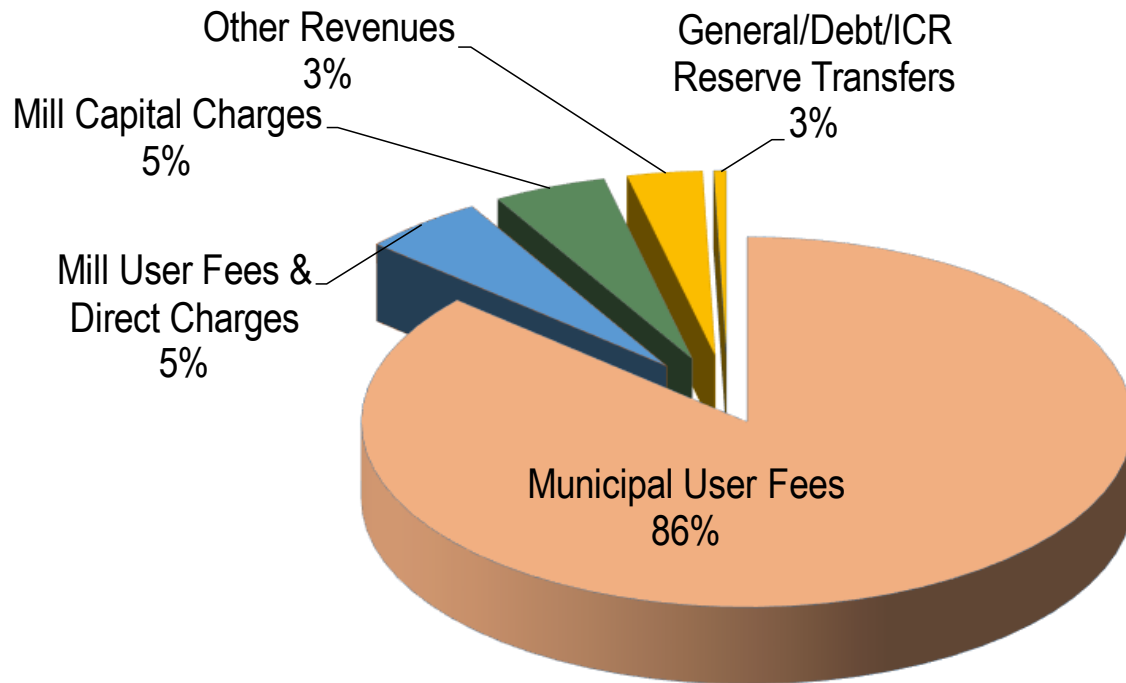
Capital Projects for 2023-2026

- GBF Influent Pumping & Headworks improvements - \$30M
- DPF Influent Pumping & Headworks improvements - \$23M
- GBF Clarifier rehabilitation (phase 1) - \$38M
- GBF Biosolids Storage & Handling improvements - \$15M
- GBF Primary Sludge Degritting improvements - \$9M
- East Fox River Interceptor rehab - \$3M
- West Fox River Interceptor relay and rehab - \$6M
- Total expected capital projects expected (2023 - 2026) - \$156M

2022 Revenue

Broad Categories	2021 Budget	2022 Budget
Municipal User Fees	\$37,015,457	\$39,168,617
Mill User Fees and Direct Charges	\$2,685,127	\$2,326,962
Mill Capital Charges	\$2,129,745	\$2,148,088
General Reserve Interest	\$19,619	\$19,619
Other Revenues	\$1,469,191	\$1,425,518
ICR and Debt Reserve Transfers	\$1,440,869	\$1,440,343
General Fund Transfers	\$0	\$0
Contribution to Capital Reserve	(\$479,619)	(1,219,619)
Total Revenues	\$44,280,388	\$45,309,528

2022 Revenue Sources



- Municipal User Fees
- Mill User Fees & Direct Charges
- Mill Capital Charges
- Other Revenues
- General/Debt/ICR Reserve Transfers

Municipal Rate Comparison

Parameter	2021	2022	% Change
Volume (1,000 gals)	\$0.8985	\$0.8781	(2.3)%
Biochemical Oxygen Demand (lbs)	\$0.5698	\$0.5391	(5.4)%
Suspended Solids (lbs)	\$0.5482	\$0.6480	18%
Phosphorus (lbs)	\$1.289	\$2.953	129%
Total Kjeldahl Nitrogen (lbs)	\$1.102	\$0.7388	(33)%

Note: Rates shown above are for comparison only and include allocation of \$13,792,777 fixed charge for 2021 and \$14,470,428 fixed charge for 2022. Parameter rates billed to customers do not include fixed charge; that is billed separately.



2021 Budget Summary

- 2.3% increase in total expenses over 2020 budget
- Municipal User Fees increased by 5.8%
- O&M expenses increased by 3.1%
- Capital expenses increased by 1.5%
- Offset some interceptor debt service using ICR reserve
- Collect \$1,200,000 for the Capital Reserve for future projects

Next Steps

- Email to customers explaining rates
- All customer meeting on September 8
- One-on-one meetings for customers not able to attend the all customer meeting
- Second budget workshop on *September 22*
- Customer meeting(s)
- Budget hearing and adoption on *December 8*
- Customer notification

Memorandum

TO: Commission
Tom Sigmund

FROM: Beth Weller-Titus

DATE: August 18, 2021

SUBJECT: 2021 July Financial Statements

Please find attached the Financial Statements for your review.

Operating Revenues

- July's operating revenues were favorable to budget by \$324k or 10% from the following:
 - Additional Volume due to higher precipitation.
 - Additional BOD Loadings; mainly due to Sustana Fiber pretreatment system down.
- Year to date, total operating revenues were favorable to budget by \$73K or 0.28% from the following:
 - Additional BOD Loadings; mainly due to Sustana Fiber pretreatment system down.
 - Additional Septage Revenue from cheese manufacturer.Offset by:
 - Less Volume due to lower precipitation.
 - Green Bay Packaging less loadings due to timing of startup.

Operating Expenses

- July's operating expenses were unfavorable to budget by (\$460K) or 27% from more expenditures than budgeted in plant maintenance, chemicals, and power.
- Year to date, total operating expenses were favorable to budget by \$1M or 7% from less expenditures than budgeted in contracted services, power, and benefits.

Net Income (Loss) (Operating Income adjusted by Non-Operating Revenue and Expenses)

- Net Loss for the month of July was (\$71K).
- Net Income year to date was \$3M.

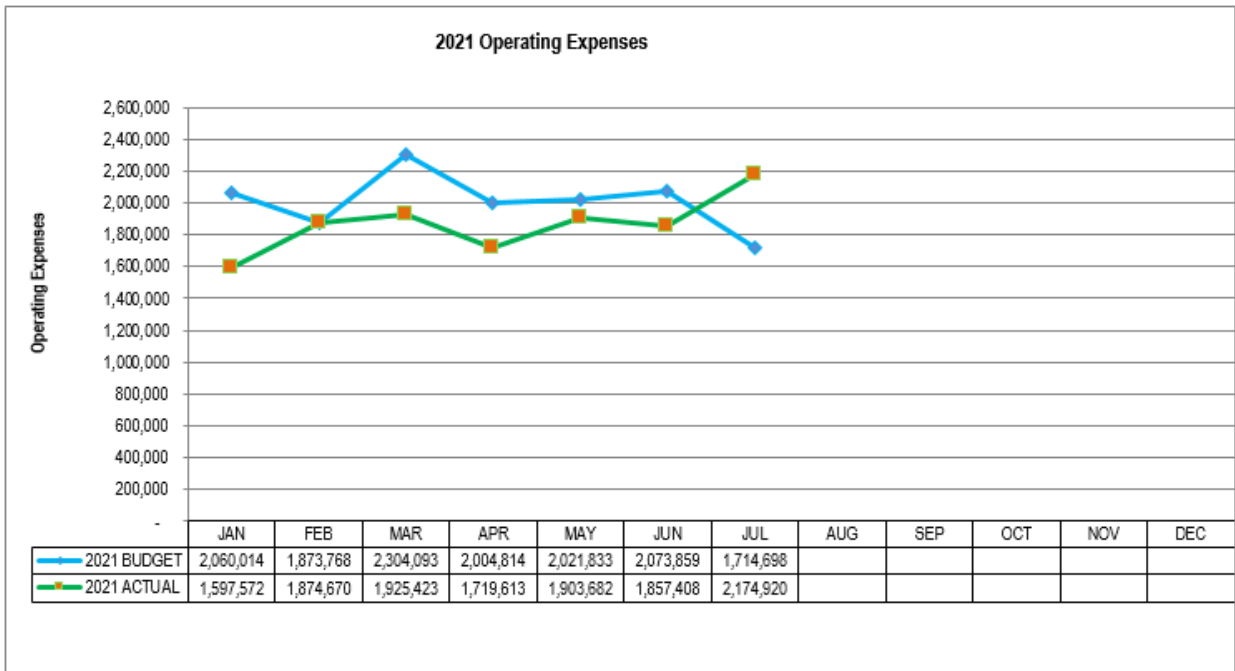
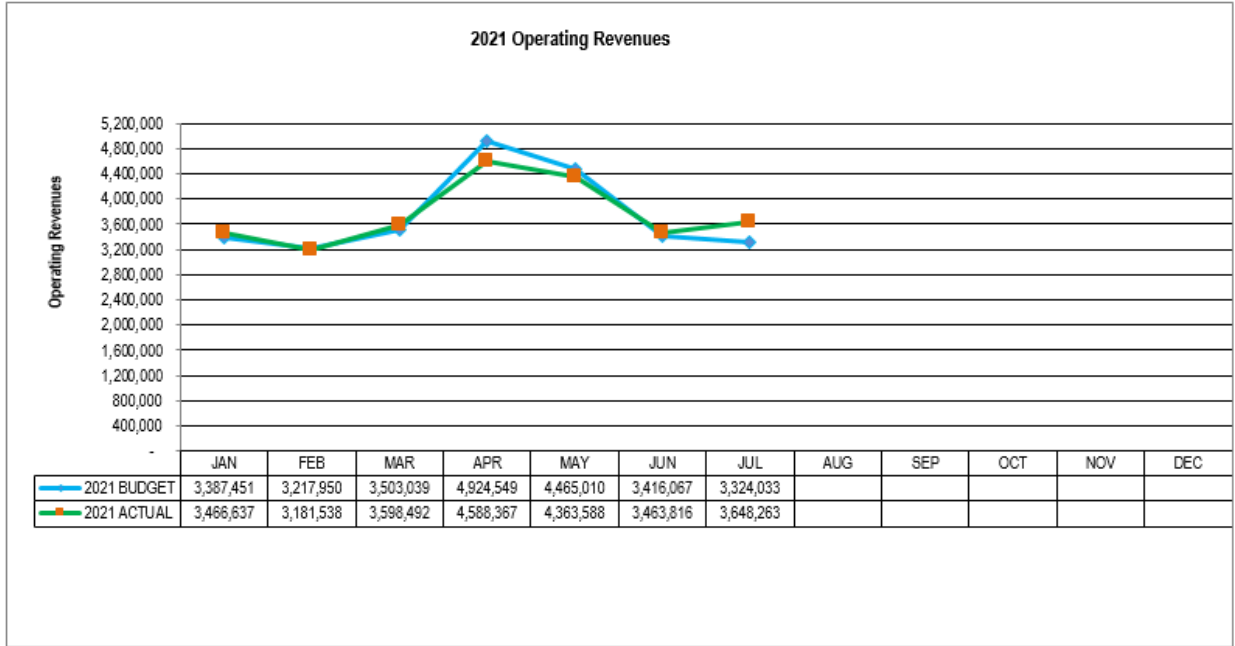


Reporting and Information

Following are the Operating Revenues and Expenses graphs; Income Statement, Statements of Net Position, and Legends are attached.

No Commission action is required.

NEW Water



NEW Water
Green Bay Metropolitan Sewerage District
INCOME STATEMENT
Jul-21

	Jul-21			Year to Date			Actual 2020
	Budget 2021	Actual 2021	Budget vs. Actual Favorable/ (Unfavorable)	Budget 2021	Actual 2021	Budget vs. Actual Favorable/ (Unfavorable)	
Operating Revenues							
User Fees - Municipal Waste	\$ 3,033,546	\$ 3,341,270	\$ 307,724	\$ 21,685,272	22,252,628	\$ 567,357	\$22,313,198
User Fees - Mill Waste	213,617	206,409	(7,208)	\$ 3,664,343	\$ 3,111,326	(553,017)	2,240,770
Other Revenues	76,871	100,584	23,713	\$ 888,483	\$ 946,746	58,263	\$953,720
Total Operating Revenues	\$ 3,324,033	\$ 3,648,263	\$ 324,230	\$ 26,238,098	\$ 26,310,701	\$ 72,603	\$ 25,507,688
			10%			0%	
Operating Expenses							
Salaries	\$ 743,700	757,725	\$ (14,025)	\$ 5,092,088	\$ 5,086,010	\$ 6,078	\$ 4,882,187
Benefits	251,620	257,434	(5,814)	\$ 1,717,182	\$ 1,595,716	121,465	1,559,831
Employee Development	19,155	2,438	16,717	\$ 91,582	\$ 34,133	57,449	44,956
Travel and Meetings	6,559	219	6,340	\$ 20,683	\$ 1,131	19,552	6,133
Power	163,438	258,670	(95,232)	\$ 1,040,906	\$ 939,690	101,216	1,247,725
Natural Gas & Fuel Oil	20,665	8,226	12,439	\$ 264,146	\$ 315,134	(50,989)	405,341
Chemicals	107,225	235,238	(128,013)	\$ 684,008	\$ 818,113	(134,105)	772,266
Maintenance - Plant	80,882	249,785	(168,903)	\$ 1,348,391	\$ 1,283,634	64,757	1,307,675
Maintenance - Interceptors	6,534	5,027	1,507	\$ 125,645	\$ 79,438	46,207	68,435
Contracted Services	199,313	207,825	(8,513)	\$ 2,583,074	\$ 1,856,455	726,619	1,929,959
Insurance	28,911	32,625	(3,714)	\$ 202,381	\$ 222,248	(19,867)	193,687
Solid Waste Disposal	5,021	3,914	1,107	\$ 83,758	\$ 85,848	(2,090)	147,768
Office Related Expenses	47,854	75,052	(27,198)	\$ 449,115	\$ 391,076	58,039	395,555
Supplementary Expenses (See Legend)	33,821	80,741	(46,920)	\$ 350,121	\$ 344,660	5,461	286,496
Total Operating Expenses	\$ 1,714,698	\$ 2,174,920	\$ (460,222)	\$ 14,053,079	\$ 13,053,288	\$ 999,791	\$ 13,248,013
			-27%			7%	
Operating Income	\$ 1,609,335	\$ 1,473,343	\$ (135,991)	\$ 12,185,019	\$ 13,257,413	\$ 1,072,394	\$ 12,259,675
			-8%			9%	
Non-Operating Revenues and Expenses							
Investment Income	\$ 140,387	\$ (21,317)	\$ (161,703)	\$ 982,706	\$ 377,446	\$ (605,260)	\$ 890,259
Depreciation	(1,193,907)	(1,193,907)	\$ -	\$ (8,357,350)	\$ (8,357,350)	\$ 0	(7,084,441)
Gain (Loss) on Disposal of Fixed Assets				\$ -	\$ -	\$ -	-
Interest Expense	(328,889)	(329,178)	(289)	\$ (2,302,222)	\$ (2,348,926)	(46,704)	(2,655,716)
Total Non-Operating Revenues and Expenses	\$ (1,382,410)	\$ (1,544,402)	\$ (161,992)	\$ (9,676,867)	\$ (10,328,831)	\$ (651,964)	\$ (8,849,898)
Net Income (Loss)	\$ 226,925	\$ (71,058)	\$ (297,983)	\$ 2,508,152	\$ 2,928,582	\$ 420,430	\$ 3,409,777

Note: Please reference attached legends by categories.

NEW Water

Green Bay Metropolitan Sewerage District

Income Statement Legends per Categories

Operating Revenues:

User Fees - Municipal Waste:	Volume, Biochemical Oxygen Demand, Suspended Solids, Phosphorus, Kjeldahl Nitrogen, Direct Charges
User Fees – Mill Waste:	Volume, Biochemical Oxygen Demand, Suspended Solids, Phosphorus, Kjeldahl Nitrogen Direct Charges from Procter & Gamble, and Fox River Fiber
Capital and Direct Revenue Mills:	Capital and Debt Service Charges.
Other Revenues:	Excess Capacity Rental and Exceedance Surcharges, Discounts Permit Fees, Leases and miscellaneous revenues.

Operating Expenses:

Salaries:	Departmental, Pretreatment, Interceptor, Meter and Lift Stations (East River Lift Stations and Old Plank Lift Stations).
Benefits:	Health, Dental, & Life Insurances, Retirement, Social Security, Fringe and Compensated Benefits, Workers and Unemployment Compensations, Uniforms, Employee Referral Services, Long Term Disability, and Wellness.
Employee Development:	Registration, Conference, Seminar, Tuition Fees and Training.
Travel and Meetings:	Lodging, Transportation, Meals, Mileage, and Meetings (prior were included in Employee Development and Supplementary Expenses).
Power:	All Power related.
Natural Gas & Fuel Oil:	Generators, Incineration and Heating.
Chemicals:	Sodium, Polymer, Ferric Chloride, Muriatic Acid, Lime, etc., Interceptor Odor Control and Lab Chemicals.
Maintenance Plant:	Repair and Maintenance Building and Equipments, Inventories (Obsolescence, Variances), Telephones for Lift and Meter Stations, Pretreatment Programs, Inventory Obsolescence, Leases and Rental.

NEW Water

Green Bay Metropolitan Sewerage District

Income Statement Legends per Categories

Operating Expenses (Continued):

Maintenance Interceptors:	Repair and Maintenance of Interceptors, Lift Stations, and Meter Stations.
Contracted Services:	Contractors, Legal, Audit, Studies, Occupational Health, Custodial Services, Environmental Programs, Sponsorship, Hazardous Waste Disposal, Class and Compensation, Household Hazardous Waste Disposal, DNR Environmental Fees, In District Sustainability, Risk Based Asset Management, Watershed Based Planning, Reg/Muni Environment Service and Contingency.
Insurances:	Automobile, Property, Boiler and Machinery, Liability, Umbrella, Commercial Crime, and Public Officials.
Solid Waste Disposal:	Hickory Meadows Landfill and Veolia Environmental Services.
Office Related Expenses:	Supplies, Postage, Data Processing (computer software, main application, support, etc.), Publishing, Sales and Use Tax, Bank Service Charges and Employee Recognition.
Supplementary Expenses:	Telephones (main lines, cells), Fuel Vehicles, (New) Fuel Equipment, Small Tools, Public Information, Memberships and Dues, Publications and Subscriptions, Licenses & Permits, Freight In, Freight Out, Safety Shoes and Glasses, and Water (including Fire Protection supplemental fee).

Non-Operating Revenues and Expenses:

Investment Income:	Interest on Investments and Interceptor Cost Recovery Interest.
Depreciation Expense:	Monthly Depreciation on all Fixed Assets such as Land, Land Improvements, Buildings, Vehicle, Boats & Trailers, Machinery Equipment, Furniture and Fixtures, Interceptors, Meters & Lift Stations.
Gain (Loss) on Disposal of Fixed Assets:	Sale, Disposal, and Transfer of Fixed Asset.
Interest Expense:	Debt Service and Bond Anticipation Note Interest.

NEW Water
GREEN BAY METROPOLITAN SEWERAGE DISTRICT
STATEMENTS OF NET POSITION
For the Twelve Months Ending:

31-Jul-21

Assets

Current Assets	
Cash and Investments	\$ 21,850,134.50
Receivables	
Sewage Treatment Service	6,469,746.45
Accrued Interest	119,357.20
Other	178,805.68
Inventories	1,272,485.64
Prepaid Expenses	<u>222,486.76</u>
Total Current Assets	\$ 30,113,016.23
Restricted Assets	
Cash and Investments	\$ 67,023,321.35
Accrued Interest Receivables	1,130,108.99
Interceptor Cost Recovery Receivable	<u>1,187,325.00</u>
Total Restricted Assets	\$ 69,340,755.34
Deferred Outflows of Resources	
Deferred Pension Resources	\$ 3,637,298.00
Deferred Life Insurance Resources	\$ 598,972.00
Deferred Loss on Bond Advance Refunding	<u>\$ 2,400,673.57</u>
Total Deferred outflows of Resources	\$ 6,636,943.57
Capital Assets	
Wastewater Treatment Facilities	\$ 360,982,744.40
Interceptor Sewers	90,024,760.97
Construction in Progress	<u>25,354,588.31</u>
Total Capital Assets	\$ 476,362,093.68
Less: Accum Depreciation and Amortization	<u>(147,667,217.73)</u>
Net Capital Assets	<u>\$ 328,694,875.95</u>
Other Assets	
Bond Issuance Costs	\$ 339,899.83
Net Pension Asset	<u>\$ 1,540,026.00</u>
Total Other Assets	<u>\$ 1,879,925.83</u>
Total Assets	<u><u>\$ 436,665,516.92</u></u>

Liabilities and Equity

Current Liabilities	
Accounts Payable	\$ 1,554,233.75
Salaries Payable	183,098.51
Other Accrued Liabilities	<u>178,392.71</u>
Total Current Liabilities	\$ 1,915,724.97
Liabilities Payable from Restricted Assets	
Accounts Payable	\$ 744,660.86
Current Maturities of General Long-Term Debt	11,833,873.00
Interest Accrued	<u>932,537.54</u>
Total Liabilities Payable from Restricted Assets	\$ 13,511,071.40
Long-Term Liabilities	
General Long-Term Debt, Less Current Maturities	\$ 168,590,891.78
Debt Premium	\$ 408,133.03
Bond Premium	\$ -
Pension Liability	-
Compensated Absences	2,020,321.37
Other post employment benefits (life insurance)	1,466,237.00
Deferred Revenue	<u>-</u>
Total Long-Term Liabilities	<u>\$ 172,485,583.18</u>
Total Liabilities	<u>\$ 187,912,379.55</u>
Deferred Inflows of Resources	
Deferred Pension Obligations	\$ 4,882,402.00

Net Position

Net Position	
Invested in Capital Assets, net of Related Debt	\$ 148,884,717.94
Restricted for Equipment & Interceptor Replacement	35,066,136.06
Restricted for Plant Capital Replacement	22,451,594.09
Restricted for Debt Retirement	9,452,455.88
Restricted for Capital Projects	2,270,700.18
Restricted for Pension	1,540,026.00
Unrestricted	<u>24,205,105.22</u>
Total Net Position	<u><u>\$ 243,870,735.37</u></u>

Note: Please reference attached legends by categories.

NEW Water

Green Bay Metropolitan Sewerage District

Statements of Net Position (previously Balance Sheet) Legends per Categories

Assets

<u>Current Assets:</u>	Are cash and other assets that will be converted to cash or used by GBMSD in a relative short period of time, usually a year or less.
Cash and Investments:	Petty cash, cash in checking, general savings and investment accounts, discounts/premiums for unrestricted and restricted.
Accounts Receivables:	All amounts owed to GBMSD by customers.
Sewage Treatment Service:	Accounts receivable for sewage treatment services.
Accrued Interest:	Accrued interest and interest received on investments.
	Other: Accounts receivable from septage, pretreatment, and other customers such as Procter and Gamble Paper Products, West Shore Pipeline Co, etc.
Inventories:	Are goods and materials held available in stock by GBMSD such as electrical, instrumentation, mechanical, hardware, janitorial, lubes & oils, fuel oils, polymer, and all other miscellaneous related products such as copy paper, gloves, respirator or filter head piece, cartridge, cleaners, towels, etc.
Prepaid Expenses:	Insurances that have been paid for and not yet used such as worker compensation, liability base, automotive, umbrella base, property base, boiler & machinery, commercial crime, public officials, health, dental, and fringe benefits.
<u>Restricted Assets</u>	
Cash and Investments:	Savings, investment and money market accounts for debt, plant and equipment replacement fund (PERF), interceptor cost recovery (ICR), bond proceeds, and unrealized gain/loss.
Accrued Interest Receivable:	Accrued interest and interest received periodically on restricted investments.

NEW Water

Green Bay Metropolitan Sewerage District

Statements of Net Position (previously Balance Sheet) Legends per Categories

Interceptor Cost Recovery Receivable: Deferred receivable from municipal customers in which the municipalities have agreed to reimburse GBMSD for the cost of interceptors owned by GBMSD whose capacity has been allocated.

Capital/Fixed Assets:

Capital: Are all items of property other than inventories, receivables, copy rights, certain governmental obligations, and real and depreciable property used by GBMSD (Ex: capital stocks and bonds).

Fixed Assets: Are long term assets acquired by GBMSD rather than for resale.

Wastewater Treatment Facilities: Land & land improvements, structures, machinery & equipment, furniture & fixtures, vehicle, boats & trailers, and amortize assets.

Interceptor Sewers: Meter & lift stations and interceptors.

Construction in Progress (CIP): Asset entry records the cost of construction work, which is not yet completed. A CIP item is not depreciated until the asset is placed in service.

Accumulated Depreciation & Amortization: Shows the total of all depreciation and amortization recorded on the asset up through the balance sheet date (land & land improvements, structures, machinery & equipment, furniture & fixtures, vehicle, boats & trailers, and accumulated amortization).

Depreciation: Is the amount of plant asset cost allocated to each accounting period benefiting from the asset's use; it is a process of allocation, not valuation.

Amortization: Is the systematic write-off of the cost of an intangible asset to expense. A portion of intangible asset cost is allocated to each accounting period in the economic (useful) life of the asset.

NEW Water

Green Bay Metropolitan Sewerage District

Statements of Net Position (previously Balance Sheet) Legends per Categories

Other Assets:

Other Receivable: Miscellaneous receivable such as credits and adjustments received.

Bond Issuance Cost: Expenditures incurred in preparing and selling a bond issue such as legal, underwriting, registration fees, etc. These deferred charges are amortized over the period the bonds are outstanding (date of issue to the maturity date).

Liabilities and Equity

Current Liabilities: Are debts, usually due within one year, and the payment of which normally will require the use of current assets.

Accounts Payable: Are amounts owed by GBMSD to creditors for items or services purchased from them. Contains all vouchers that have been prepared and approved as proper liabilities such as accounts payable, retainage payable for projects and accounts payable accruals.

Salaries Payable: Accrued salaries incurred and not yet paid.

Other Accrued Liabilities: Amounts owed to employees for services rendered and for which payment has not been made at the balance sheet date such as fringe benefits payable, federal income tax payable, FICA payable, Medicare payable, life insurance, dependent care withholding, child support payment, United Way payable, and Wisconsin income tax payable.

Liabilities Payable for Restrictive Assets:

Accounts Payable: Contains all vouchers that have been prepared and approved as proper liabilities for restrictive assets.

Current Maturity of Long Term Debt:

Interest Accrued: Accrual and interest payment on debt services, Clean Water Fund loan, bond anticipation note, and Wisconsin environmental improvements.

NEW Water

Green Bay Metropolitan Sewerage District

Statements of Net Position (previously Balance Sheet) Legends per Categories

<u>Long-Term Liabilities:</u>	Are those debts not due for a relatively long period of time, usually more than one year.
General Long-Term Debt, Less Current Maturities:	Clean Water Fund loans, general obligation notes, bond issuance, bond anticipation notes, and promissory notes.
Compensated Absences:	Are compensation received by employees such as accrued vacation & sick pay, severance, and paid leave conversion. Accumulated unpaid vacation and sick paid amounts are accrued when benefits vested to employees.
Deferred Revenues:	Involves transfer of data already recorded in asset and liability accounts to expense and revenue accounts (Ex: De Pere consolidation).

Net Assets

Invested in Capital Assets, Net of Related Debt:	Capital Assets net of debt such as Clean Water Fund loans, general obligation note, bond issue, bond anticipation loan, promissory note, bond issuance costs, and discount on bond issue.
Restrictive for Equipment and Interceptor Replacement:	Plant and equipment replacement fund (PERF), interceptor cost recovery (ICR) investments, Rate Stabilization Fund and accrued interest received.
Restricted for Debt Retirement:	Restrictive debt investment, accrued interest received debt, and interest payable.
Restricted for Capital Projects:	Restrictive for capital project expenditures for the R2E2 Solids Project.
Unrestricted:	All other net assets that do not meet the definition of "restricted" or "invested in capital assets, net of related debt."

Memorandum

TO: Commission
Tom Sigmund

FROM: William Angoli

DATE: August 9, 2021

SUBJECT: Sewer Plan Approvals

Background

The Village of Howard, City of De Pere, and Village of Pulaski have submitted requests for approval for sanitary sewer plans. Location maps are attached. These requests include the following:

Village of Howard Sanitary Sewer Plan #21004 Howard Commons 2nd Addition; GBMSD Request #2021-20 includes 692 feet of 8-inch PVC sanitary sewer in the future right-of-way of Howard Commons, 137 feet of 8-inch PVC sanitary sewer in the proposed right-of-way of Elm Tree Hills, 807 feet of 8-inch PVC sanitary sewer in the proposed easement between Riverview Drive/CTH J and the future Howard Commons, and 752 feet of 8-inch PVC sanitary sewer in the proposed right-of-way of Road A. Flow will be tributary to the Duck Creek Interceptor.

City of De Pere capital projects amendment to the City's 2021 Capital Project List; GBMSD 2020-21 is seeking administrative approval for new sewer extension of a 24-inch sanitary sewer in conjunction with the extension of American Boulevard to the south city limit. This project is being completed with a NEW Water team as an extension of NEW Water's Ninth Street Interceptor. The City of De Pere is working closely with NEW Water staff to verify layout, specifications, and ultimate service area. Updated plans will be submitted for NEW Water staff's technical review.

Village of Pulaski Contract No. 0295-21-02 North Lift Station Completion; GBMSD Request #2021-22 includes final installation of pumps, generator and controls for lift located along STH 32. Flow will be tributary to the Bayview Interceptor.

Recommendation

Staff recommends Commission approval of the Village of Howard, City of De Pere, and Village of Pulaski plans for the proposed sewers to serve land located within NEW Water's service area. This approval is subject to favorable approval recommendations from Brown County Planning and final approval by the Wisconsin Department of Natural Resources, with the City of De Pere's request subject to staff's technical review.

Commission Action

Request Commission approval of the Village of Howard, City of De Pere, and Village of Pulaski sewer plans.

Attachment

cc: N. Qualls
File

INDEX OF SHEETS

- 1 TITLE
- 2-3 TYPICAL SECTIONS
- 4-5 HOWARD COMMONS PLAN AND PROFILE
- 6-7 ELM TREE HILL PLAN AND PROFILE
- 8-9 SANITARY AND WATERMAIN EASEMENT PLAN AND PROFILE
- 10-11 ROAD A PLAN AND PROFILE

VILLAGE CENTER 2ND ADDITION UTILITY AND ROADWAY CONSTRUCTION

VILLAGE OF HOWARD BROWN COUNTY, WISCONSIN VILLAGE PROJECT NO. 21004 JULY 2021

G. B. M. S. D. PLAN APPROVAL

REQUEST NO. GBMSD # 2021-20

PROJECT NO. Village of Howard #21004

EXAMINED BY R. REINHART DATE 8/2/21

APPROVED BY G.B.M.S.D. COMMISSION

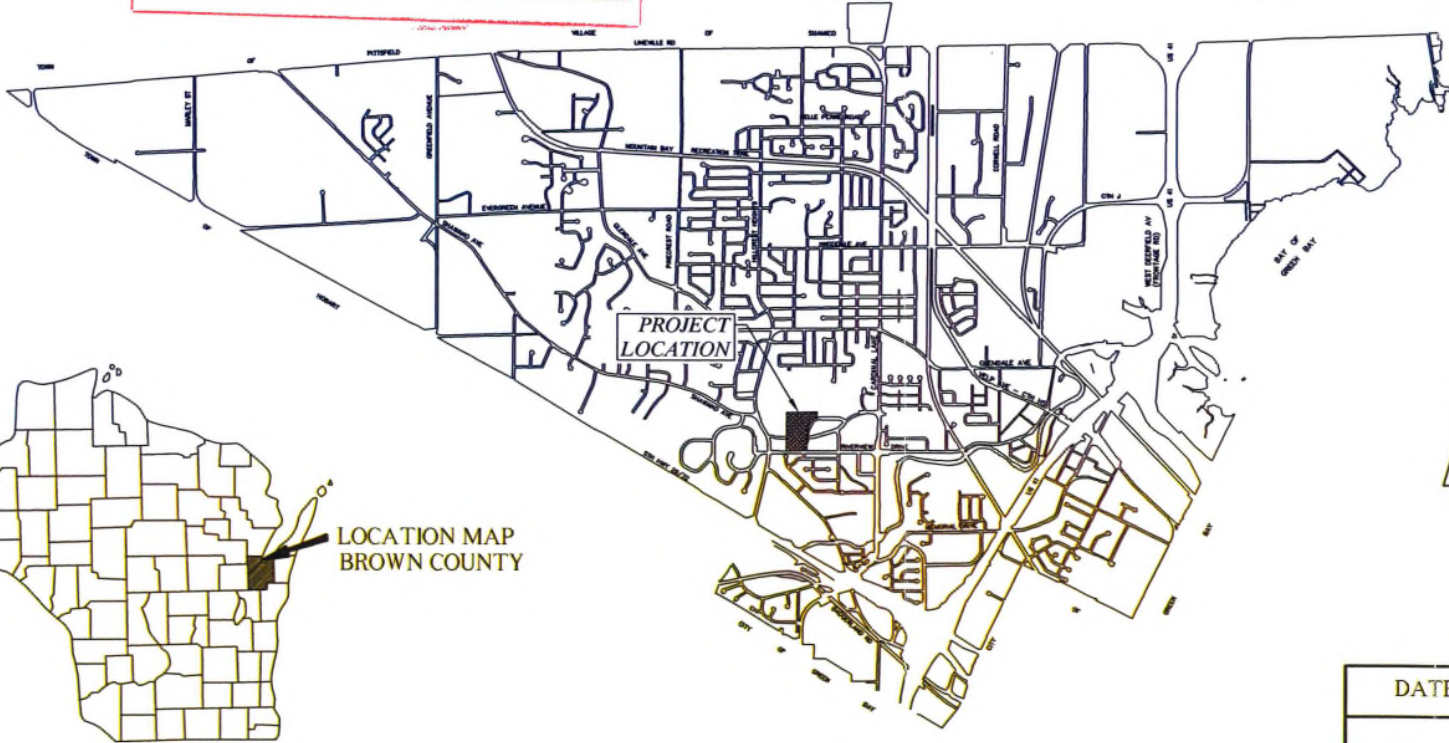
MOTION NO. _____ DATE _____

WISCONSIN
JOEL A. EHRFURTH
5719 GREEN BAY, WIS.
PROFESSIONAL ENGINEER

07-29-2021

- PROJECT UTILITIES CONTACTS:**
- WISCONSIN PUBLIC SERVICE CORP (ELECTRIC)**
2850 S. ASHLAND AVE.
GREEN BAY, WI 54307-9002
ATTENTION: RYAN VOSKUL
(920) 617-5150
- WISCONSIN PUBLIC SERVICE CORP (GAS)**
2850 S. ASHLAND AVE.
GREEN BAY, WI 54307-9002
ATTENTION: JUSTIN LORENTZ
(920) 433-1650
- AT&T**
P.O. BOX 10
205 S JEFFERSON ST
GREEN BAY, WI 54301
ATTENTION: SHEA GORZELANCZYK
(920) 433-4250 OR (920) 227-8871
- CHARTER COMMUNICATION**
3520 E. DESTINATION DR
APPLETON, WI 54915
ATTENTION: VINCE ALBRI
(920) 831-9249 OR (920) 378-0444
- NSIGHT / NET LEC LLC**
450 SECURITY BLVD.
P.O. BOX 19079
GREEN BAY, WI 54307
ATTENTION: RICK VINCENT
(920) 617-7316
- VILLAGE OF HOWARD
ENGINEERING/WATER & SEWER DEPT.**
1336 CORNELL RD.
GREEN BAY, WI 54313
ATTENTION: GEOFF FARR
(920) 434-4060
- BROWN COUNTY PLANNING, SURVEY COORDINATION**
GREEN BAY, WI 54303-3600
ATTENTION: JEFF DUMEZ
(920) 448-4487

UNDERGROUND UTILITIES SHOWN ON PLANS ARE TAKEN FROM UTILITY COMPANIES RECORD DRAWINGS OR PRELIMINARY FIELD LOCATES.
WIS. STATUTES 182.0175 (1974) REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES CALL DIGGER'S HOTLINE 1-800-242-8511 TOLL FREE.



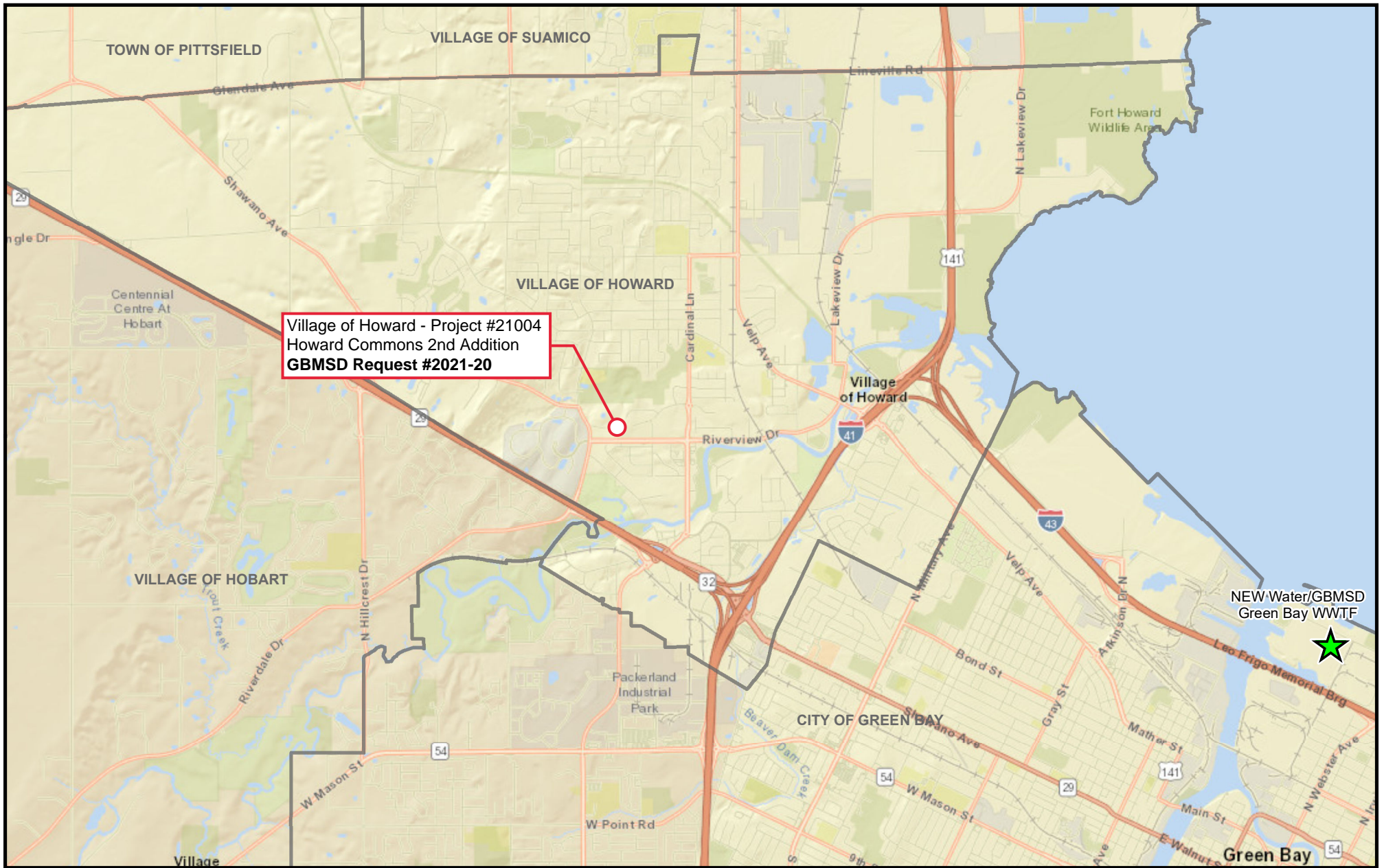
ORIGINAL PLANS PREPARED BY

MACH IV

ENGINEERING • SURVEYING • ENVIRONMENTAL

2260 Salzholder Court Green Bay, WI 54313
PH: 920-569-5765; Fax: 920-569-5767
www.mach-iv.com
Project Number: 1797-05-20

DATE	SIGNATURE
APPROVED FOR VILLAGE OF HOWARD	
DATE REVISED	
PUBLIC WORKS DIRECTOR	
VILLAGE ENGINEER	

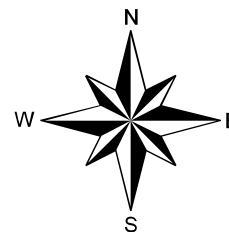


LEGEND

 Municipal Boundaries

August 2021

GBMSD Sewer Plan Approval Request Locations



2021 SANITARY SEWER EXTENSION AMENDMENT AMERICAN BOULEVARD EXTENSION

CITY OF DE PERE



ENGINEER DIVISION
925 S. SIXTH ST
DE PERE, WI 54115

G. B. M. S. D. PLAN APPROVAL

REQUEST NO. GBMSD # 2021-21

PROJECT NO. CITY OF DE PERE 2021 PROJECTS

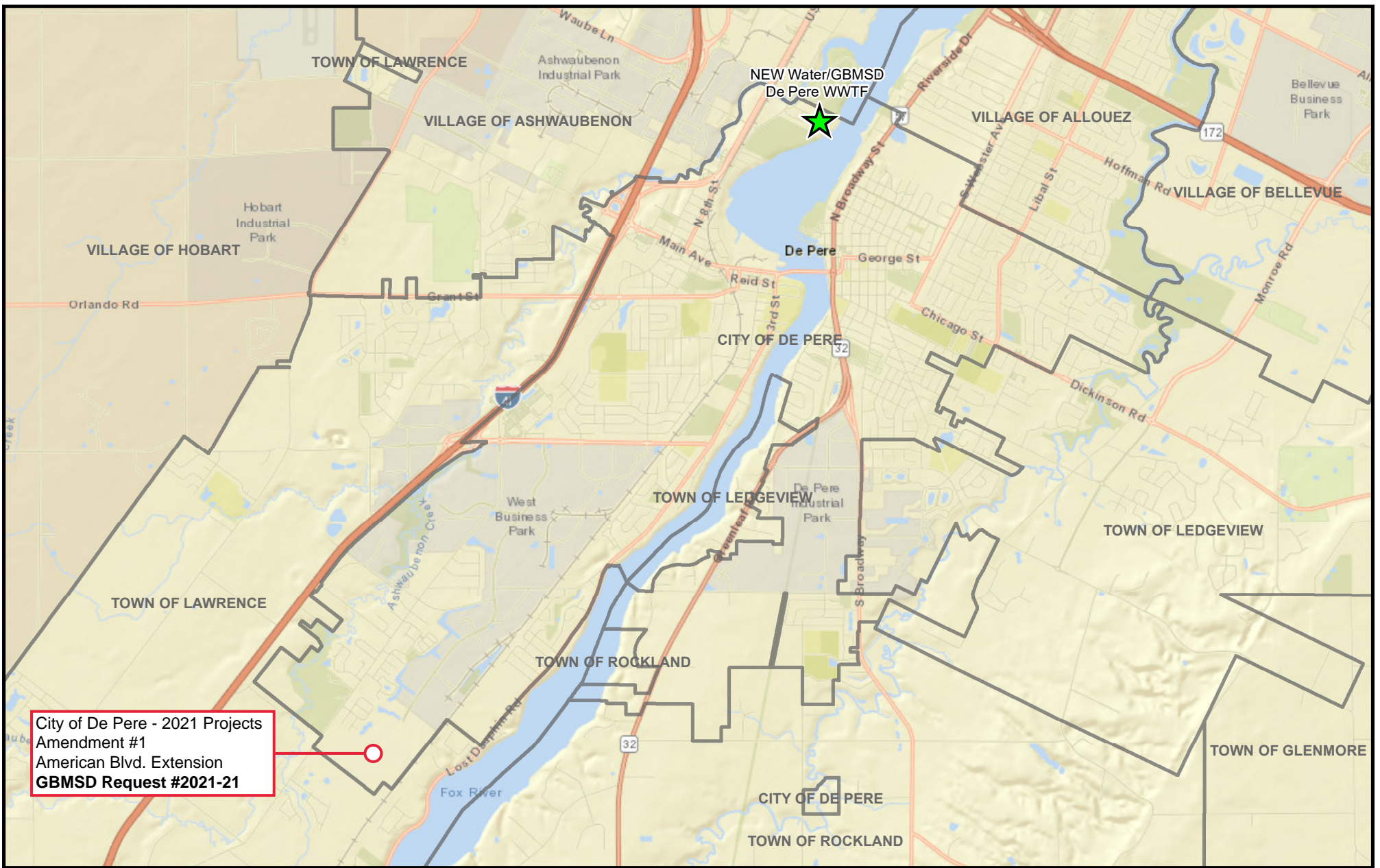
EXAMINED BY R. REINHART DATE 8/3/21

ENGINEERING STAFF APPROVAL

MOTION NO. _____ DATE _____



SITE LOCATION MAP
N.T.S.



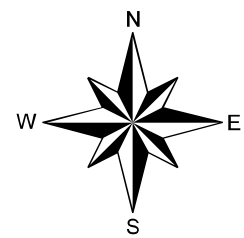
City of De Pere - 2021 Projects
 Amendment #1
 American Blvd. Extension
 GBMSD Request #2021-21

LEGEND

 Municipal Boundaries

August 2021

**GBMSD Sewer Plan Approval
 Request Locations**



NORTH LIFT STATION COMPLETION VILLAGE OF PULASKI SHAWANO COUNTY, WISCONSIN

CONTRACT NO. 0295-21-02

ATTENTION!
DOWNLOADED PLANS ARE NOT SCALEABLE, NEITHER THE OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS. ONLY PRINTED PLANS FROM BLUE PRINT SERVICE CO., INC. SHALL BE CONSIDERED TO BE SCALEABLE PLANS.

G. B. M. S. D. PLAN APPROVAL

REQUEST NO. GBMSD #2021-22

PROJECT NO. VILLAGE OF PULASKI #0295-21-02

EXAMINED BY R. REINHART DATE 8/9/21

APPROVED BY G.B.M.S.D. COMMISSION

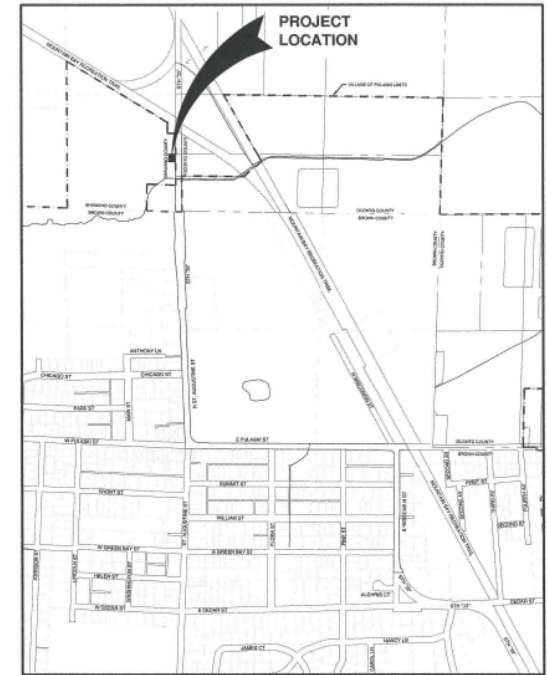
MOTION NO. _____ DATE _____

NOTE:
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY OWNERS SHALL BE NOTIFIED FOR LOCATES BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

NOTE:
ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.



VICINITY MAP



LOCATION MAP

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN
SLS
CHECKED
JES
DESIGNED
CFP

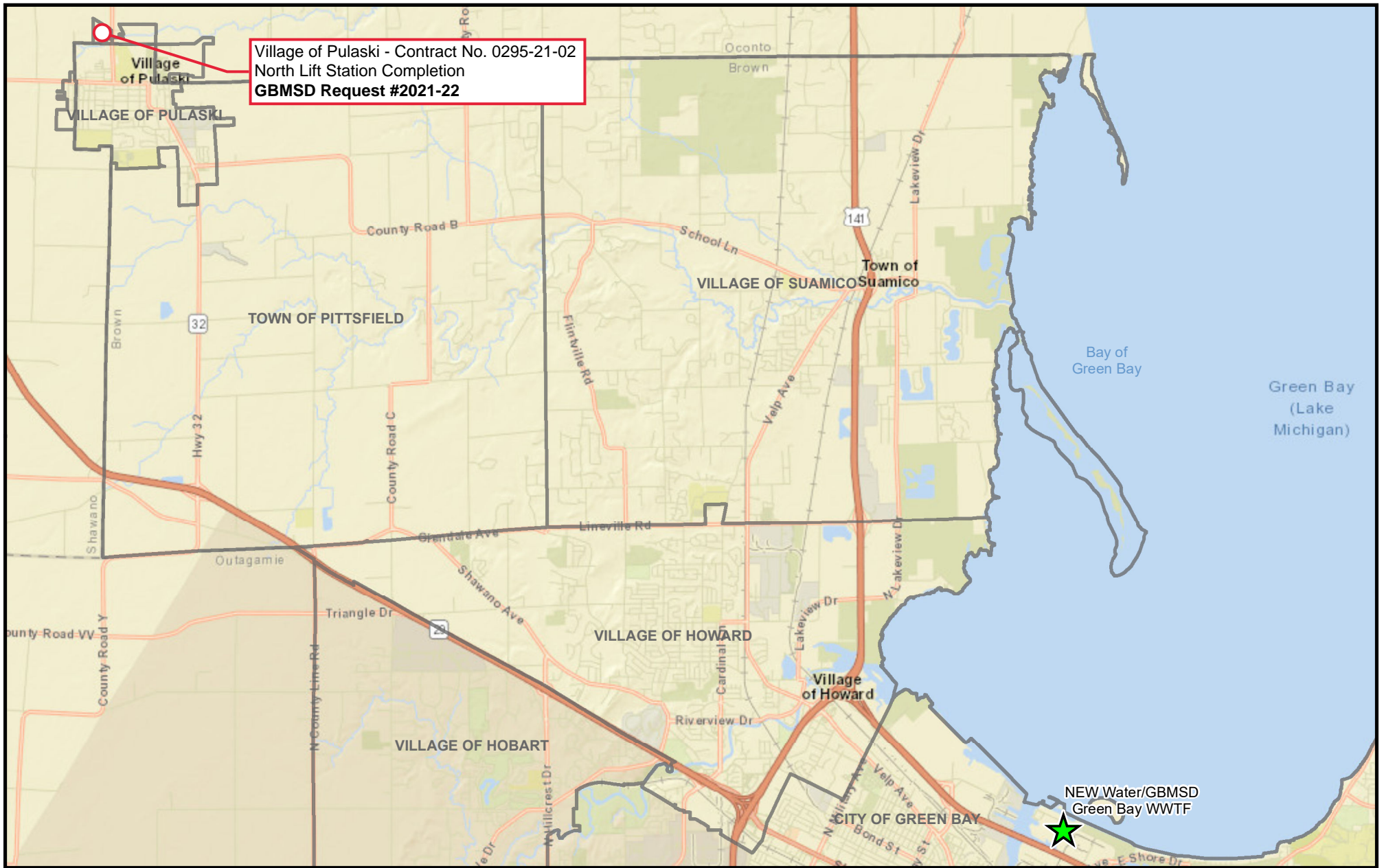
CONTRACT NO. 0295-21-02
NORTH LIFT STATION COMPLETION
VILLAGE OF PULASKI
SHAWANO COUNTY, WISCONSIN

LOCATION MAPS

DATE
02/20/21
FILE
02/20/21
JOB NO.
0295-02

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-862-2841 www.reeinc.com

SHEET NO.
1
00-G-01

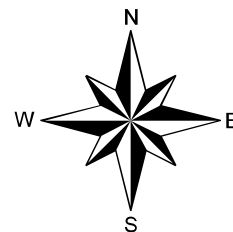


LEGEND

□ Municipal Boundaries

August 2021

**GBMSD Sewer Plan Approval
Request Locations**



Memorandum

TO: Commission
Tom Sigmund

FROM: Adam Butry

DATE: August 11, 2021

SUBJECT: 2020 Safety Statistics

Background

I will provide a 2020 safety statistics and safety initiatives update at the August 25 Commission meeting.

Recommendation

This Commission item is informational only.

Commission Action

No Commission action is required.

Attachment



Memorandum

TO: Commission

FROM: Tom Sigmund

DATE: August 19, 2021

SUBJECT: Commission Meeting Organization and Content Discussion

Background

The goal of this discussion is to talk about the placement of the Closed Session item in the agenda for the Commission meeting to better accommodate guest participation in the meetings. In addition, to review how Commission Packet materials are prepared by NEW Water staff and the manner that those items are presented at Commission meetings to see if the Commission desires changes in either the materials or the presentations. Attached is a list of typical items requiring Commission action, as well as informational items presented at the meetings. Staff is proposing adjustments to the existing practices.

Placement of Closed Session in the Agenda

Currently the Closed Session is near the beginning of the agenda for the Commission meeting. Closed Sessions typically last 20 to 60 minutes and can make it difficult for guests who are interested in items on the agenda to participate in the meeting, given the uncertainty of when the open session portion of the meeting will resume. The Closed Session was previously moved from the end of the meeting to the beginning of the meeting to ensure that all Commissioners could participate in the session, no matter the amount of open session items.

I suggest that the Closed Session agenda item be moved to immediately after the items requiring Commission action and before informational items. I also suggest that some informational items such as the Budget Workshop, Safety Moment, and presentations by visitors be scheduled prior to Closed Session on the agenda.

Commission Packet Materials

Staff spends considerable time preparing the written materials that are provided in the Commission packet supporting the meeting agenda. The intent of the written materials is to provide an explanation of items requiring Commission action, as well as a recommendation for Commission action on that item. Copies of agreements and supporting materials are provided for review, even though the recommendation is often to delegate execution of the agreement to the Executive Director.

Copies of presentations are included that will be made by staff or consultants at the meeting for Commission review prior to the meeting. Complete copies of materials are also provided, such as: the



annual financial audit report, Compliance Maintenance Annual Reports to be submitted to the DNR, Clean Water Fund Loan documents, and NEW Water's annual budget.

Staff is looking for feedback from the Commission as to the adequacy of the written materials provided in the Commission packet to assist the Commission in setting policy and making decisions for NEW Water. Staff wonders if we are providing too much information or too little.

Staff Presentations at Commission Meetings

Staff provides an oral presentation of each item on the agenda at the Commission meeting. Sometimes that is a brief summary of a written memo and other times it involves a detailed review of the memo or going through a PowerPoint presentation. It is staff's intent that the oral presentation at the meeting summarizes the written document. Some of the presentations are very short if the issue is straightforward and some of the presentations are lengthy, taking 20 minutes or more.

Staff is looking for feedback from the Commission for guidelines on the need for and the length of staff presentations (those requiring Commission action, as well as presentations for information only) at Commission meetings in order to best meet Commissioners needs to stay informed of NEW Water activities and to make decisions.

Recommendation

This Commission item is for discussion purposes only.

Commission Action

No Commission action is required.

Attachment

Monthly Construction Progress Report

Project Name: Effluent Reuse Pump Station and Force Main Project
 Project Number: 18-022-CO
 Report Number: 14
 Reporting Period: July 14, 2021 to August 9, 2021
 Project Manager: William Angoli

Contractor: CD Smith	
Contract Cost (As of Last Approved Pay Request)	Contract Time
<u>Amount</u>	<u>Date</u>
A. Original Contract Sum: \$3,490,000	Original Substantial Completion: 12/15/2020
B. Net Change by Change Orders: \$15,834.56	Original Contract Completion: 2/8/2021
C. Contract Sum to Date (A+B): \$3,505,834.56	Revised Substantial Completion:
D. Total Complete and Stored to Date: \$3,505,834.56	Revised Final Completion:
E. Retainage: \$30,000	Actual Substantial Completion:
F. Total Earned Less Retainage (D-E): \$3,475,834.56	Actual Final Completion:
G. Previous Payments: \$3,475,834.56	
H. Balance to Final Completion (C-F): \$30,000.00	
	Contract Milestones
	Do milestones apply? No

If yes, list:		
	Number of days from NTP	Date
Notice To Proceed Date		
Milestones Completed:		

Contingency	
Authorized Amount:	\$174,500
Amount Used:	\$15,834.56.00

Work Progress

Contract Budget Spent (D/C): 99% Contract Work Completed: 99%

Project Activity

Replacing the original 130 micron strainers with 200 micron strainers has resolved the plugging issue to the ultra-filtration system.

Construction Schedule

System performance testing for the pumping and chlorination systems will be scheduled after start up issues with the reverse osmosis systems are corrected.

Outstanding Issues

None

Issues Resolved

Replacement of the 130 micron strainers with 200 micron strainers has resolved the plugging issues for the ultra-filtration system.

Memorandum

TO: Commission
Tom Sigmund

FROM: Patrick Wescott

DATE: August 17, 2021

SUBJECT: July 2021 Operations Report

CC: Bruce Bartel – Treatment
Pat Smits – Maintenance
Kate Verbeten – Environmental Compliance

Effluent Quality

Both facilities were in full compliance with all effluent limits for the month of July. The De Pere Facility tied performance records for both Total Suspended Solids and Carbonaceous Biochemical Oxygen Demand for average daily concentration, average pounds discharged per day, and for total pounds discharged per month. The Green Bay Facility tied performance records for Ammonia for average daily concentration, average pounds discharged per day, and for total pounds discharged per month.

Attached are graphs showing a rolling 12-month average for effluent quality and permit limits for both facilities.

High Flows

Starting on August 8, 2021, a series of heavy rain events brought several inches of rainfall to the service area. The heavy rainfall resulted in a large increase of influent flow to the De Pere and Green Bay Facilities. Flows peaked at just over 30 million gallons per day at the De Pere Facility and well over 100 million gallons per day at the Green Bay Facility during one of the rain events. Subsequent days of heavy rainfall and saturated conditions resulted in several days of elevated flows. Both facilities and the interceptor system were able to convey, treat, and disinfect all of the additional flows.

Air Quality

The Green Bay Facility was in compliance with air quality limits for the month of July.

Resource Recovery

For the month of July, the solids processing facility generated 1,496 MWH of electricity. Bio-gas from the digestion process was utilized for the on-site electrical generation. Total bio-gas volume recovered was 246,330 CCF; this is 99.3% of the total volume produced. The remaining volume was sent through the waste gas flare. NEW Water received 2,404,193 gallons of high strength waste in July.

Attached is a graph showing a rolling 12-month average for energy utilization at the Green Bay Facility.

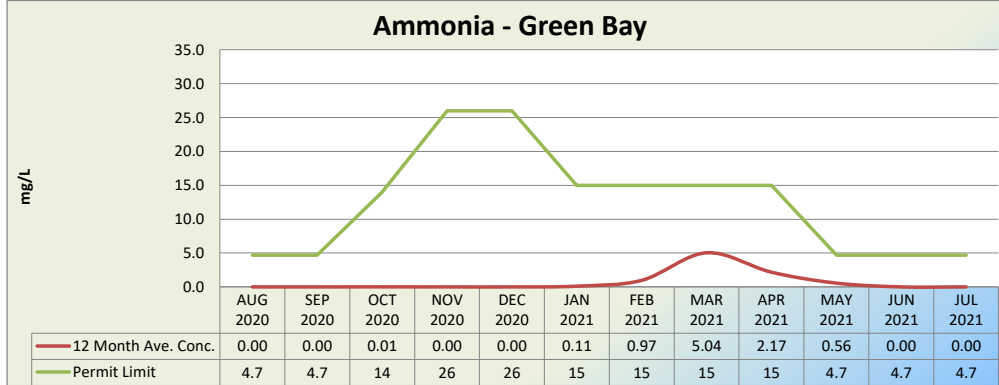
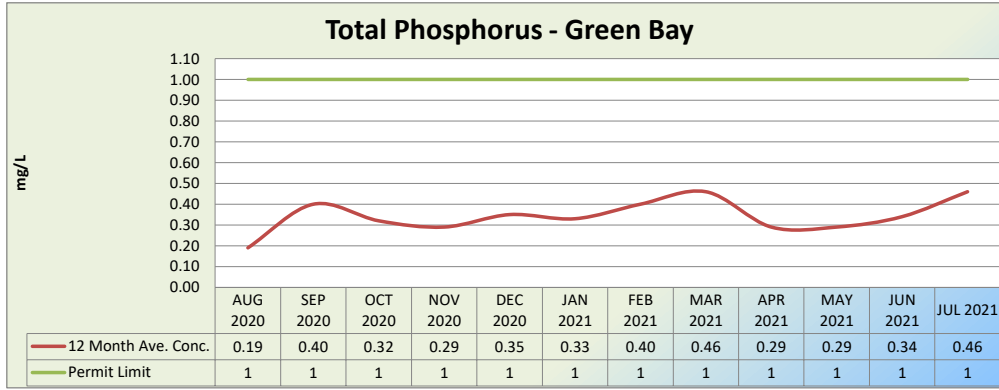
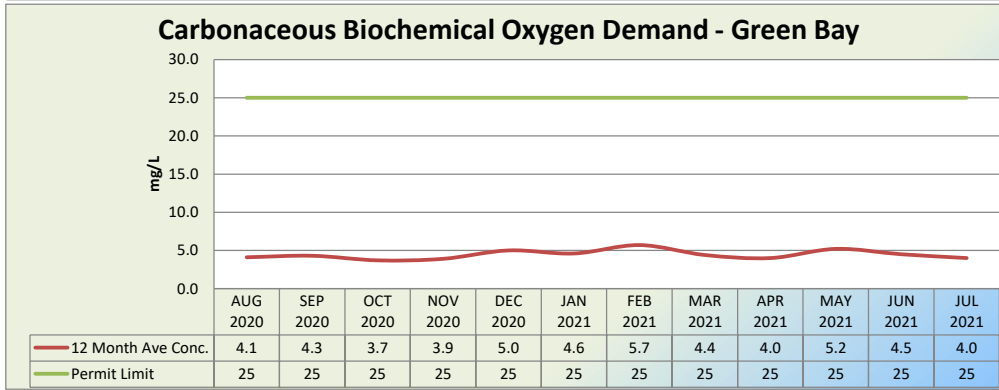
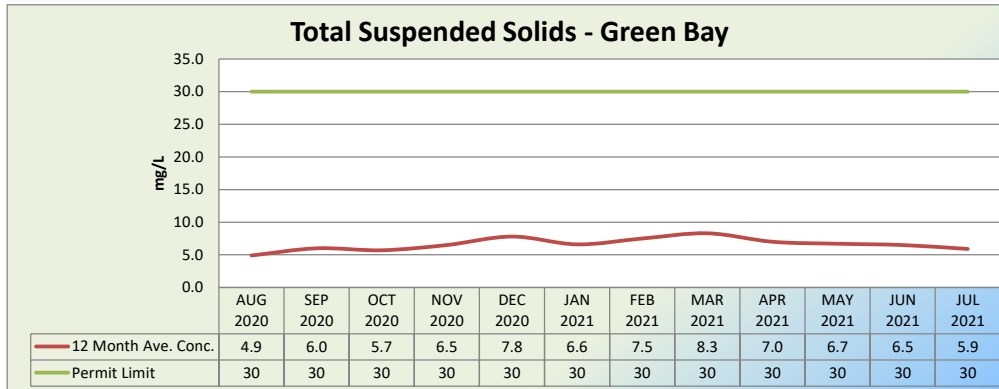
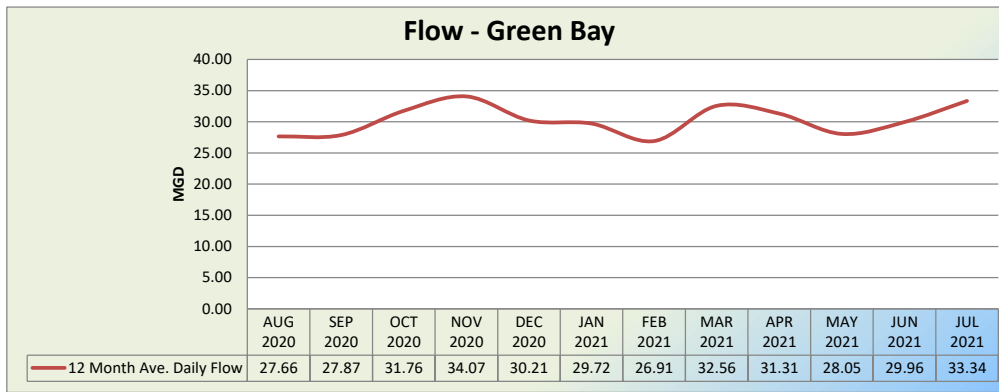
Attachments



EFFLUENT QUALITY - CURRENT YEAR 2021 NEW Water (GBMSD) - GREEN BAY FACILITY															Ammonia Limits					
Permit Limits: 30 mg/L N/A 25 mg/L 1.0 mg/L															Jan-Apr. Monthly Avg = 15 mg/L May-Sept Monthly Avg = 4.7 mg/L Weekly Avg = 13 mg/L October Monthly Avg = 14 mg/L Weekly Avg = 38 mg/L Nov-Dec. Monthly Avg. = 26 mg/L					
MONTH	FLOW		TSS			T-BOD			C-BOD			T. PHOSPHORUS			AMMONIA			TKN		
	Million Gallons	MGD	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month
JAN	921.234	29.72	6.6	1,631	50,572	9.2	2,284	70,811	4.6	1,134	35,145	0.33	82	2,550	0.11	26	810	1.72	426	13,219
FEB	753.533	26.91	7.5	1,682	47,094	10.6	2,383	66,720	5.7	1,273	35,652	0.40	91	2,537	0.97	218	6,116	2.83	636	17,813
MAR	1,009.275	32.56	8.3	2,246	69,630	15.0	4,069	126,146	4.4	1,193	36,995	0.46	125	3,885	5.04	1,369	42,445	6.88	1,869	57,934
APR	939.254	31.31	7.0	1,827	54,798	11.9	3,102	93,054	4.0	1,036	31,093	0.29	74	2,233	2.17	566	16,980	3.86	1,008	30,239
MAY	869.589	28.05	6.7	1,579	48,935	8.4	1,972	61,124	5.2	1,216	37,685	0.29	67	2,084	0.56	132	4,093	2.26	528	16,358
JUN	898.787	29.96	6.5	1,630	48,893	6.6	1,661	49,831	4.5	1,123	33,699	0.34	84	2,533	0.00	0	0	1.61	403	12,082
JUL	1,033.448	33.34	5.9	1,653	51,233	6.8	1,895	58,737	4.0	1,117	34,635	0.46	127	3,932	0.00	0	0	1.63	454	14,061
AUG																				
SEP																				
OCT																				
NOV																				
DEC																				
Average	917.874	30.26	6.9	1,750	53,022	9.8	2,481	75,203	4.6	1,156	34,986	0.37	93	2,822	1.26	330	10,063	2.97	761	23,101
Total	6,425.120				371,155			526,423			244,904			19,754			70,444			161,706
All time record best(s) ->			2.0	425	13,187	2.0	336	10,267	0.2	52	1,556	0.11	27	803	0.00	0	0	0.67	170	5,125

The effluent quality was in compliance with all of the above permit parameters for July 2021.

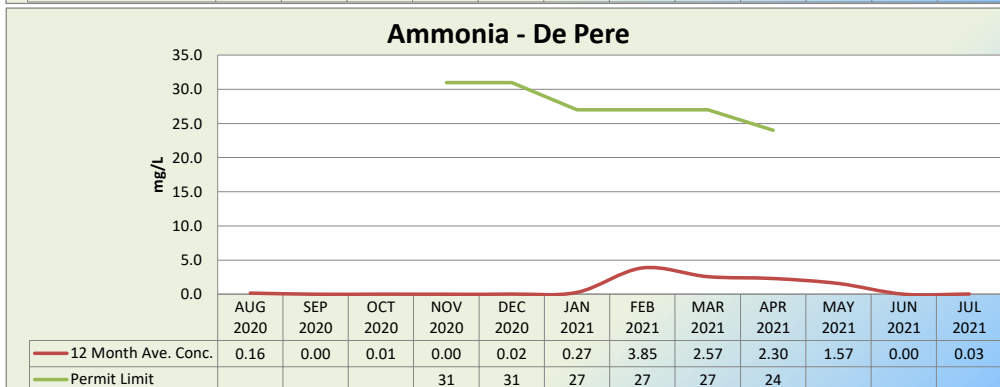
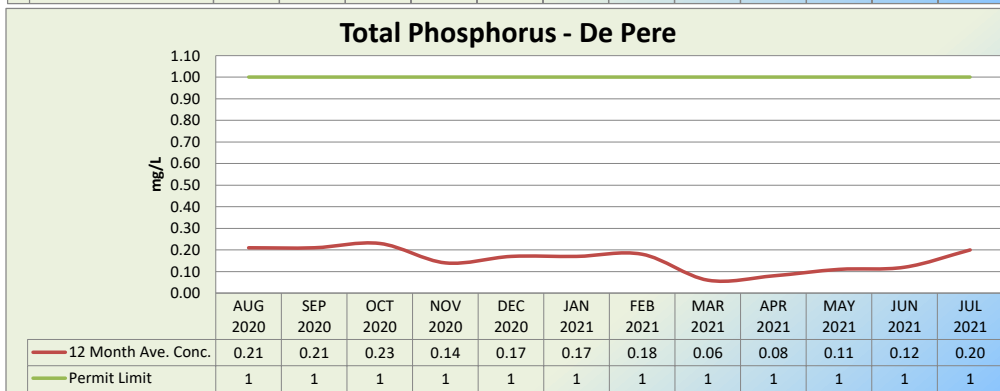
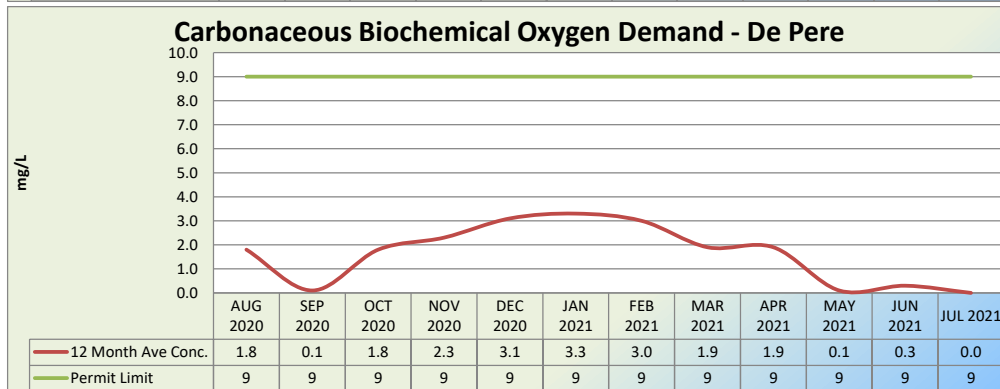
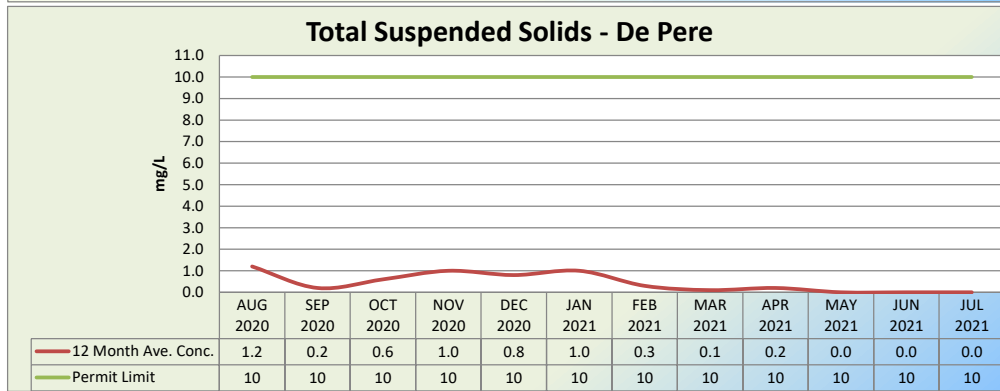
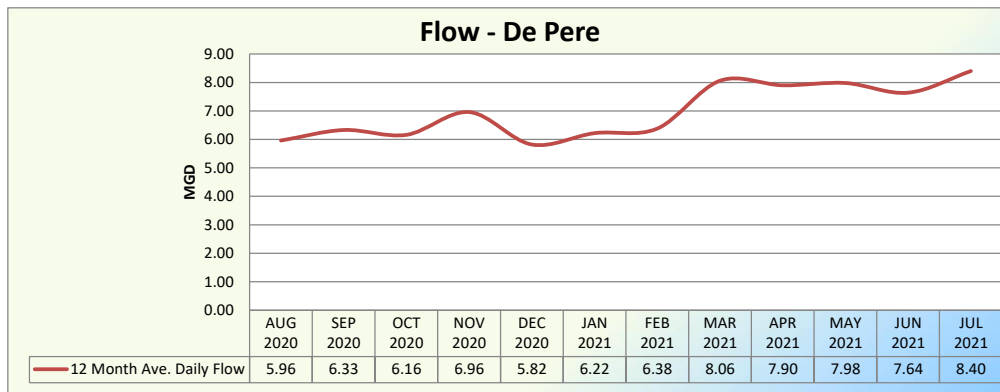
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	Million Gallons	MGD	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month
JAN	1,244.850	40.16	6.7	2,234	69,241	6.5	2,179	67,546	4.5	1,515	46,951	0.32	106	3,293	0.57	192	5,945	2.13	714	22,131
FEB	969.293	33.42	6.9	1,929	55,928	10.1	2,825	81,911	4.8	1,343	38,951	0.32	88	2,547	2.56	715	20,732	4.26	1,187	34,433
MAR	1,607.850	51.87	8.8	3,820	118,419	15.1	6,550	203,057	5.3	2,301	71,332	0.33	141	4,376	4.57	1,975	61,216	5.93	2,565	79,508
APR	1,209.466	40.32	5.6	1,877	56,308	10.3	3,467	104,017	4.7	1,591	47,728	0.38	128	3,826	1.03	347	10,397	2.30	774	23,216
MAY	1,290.215	41.62	5.2	1,817	56,334	8.2	2,858	88,584	4.2	1,468	45,523	0.26	90	2,788	0.01	4	134	1.07	372	11,527
JUN	1,132.597	37.75	4.4	1,382	41,459	6.1	1,913	57,400	3.3	1,039	31,164	0.23	71	2,138	0.00	1	22	1.11	348	10,454
JUL	1,040.300	33.56	5.7	1,604	49,735	7.0	1,969	61,050	4.2	1,162	36,032	0.26	74	2,281	0.00	0	0	1.26	353	10,945
AUG	857.523	27.66	4.9	1,131	35,057	6.1	1,407	43,607	4.1	936	29,015	0.19	44	1,366	0.00	0	10	1.28	296	9,179
SEP	836.076	27.87	6.0	1,389	41,671	7.4	1,717	51,514	4.3	1,001	30,016	0.40	92	2,772	0.00	0	9	1.41	327	9,797
OCT	984.550	31.76	5.7	1,500	46,486	8.3	2,206	68,374	3.7	968	30,012	0.32	86	2,654	0.01	1	43	1.40	371	11,510
NOV	1,022.026	34.07	6.5	1,855	55,639	9.2	2,602	78,056	3.9	1,100	33,003	0.29	83	2,499	0.00	0	0	1.44	410	12,295
DEC	936.529	30.21	7.8	1,965	60,907	10.1	2,551	79,071	5.0	1,253	38,837	0.35	89	2,749	0.00	0	13	1.66	417	12,939
Average	1,094.273	35.86	6.2	1,875	57,265	8.7	2,687	82,016	4.3	1,306	39,880	0.30	91	2,774	0.73	270	8,210	2.10	678	20,661
Total	13,131.275				687,184			984,187			478,564			33,289			98,521			247,934
All time record best(s) ->			2.0	425	13,187	2.0	336	10,267	0.2	52	1,556	0.11	27	803	0.00	0	0	0.67	170	5,125



EFFLUENT QUALITY - CURRENT YEAR 2021 NEW WATER (GBMSD) - DE PERE FACILITY															Ammonia Limits					
Permit Limits:			10 mg/L			N/A			9.0 mg/L			1.0 mg/L			Jan-Mar. Monthly Avg = 27 mg/L Daily Max = 34 mg/L April Monthly Avg = 24 mg/L Daily Max = 34 mg/L May-Oct Monitor only Nov-Dec. Monthly Avg. = 31 mg/L Daily Max = 34 mg/L					
MONTH	FLOW		TSS			T-BOD			C-BOD			T. PHOSPHORUS			AMMONIA			TKN		
	Million Gallons	MGD	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month
JAN	192.691	6.22	1.0	54	1,676	3.4	176	5,464	3.3	171	5,315	0.17	9	281	0.27	14	429	1.50	78	2,404
FEB	178.515	6.38	0.3	16	460	3.5	187	5,228	3.0	161	4,507	0.18	10	266	3.85	205	5,729	5.08	270	7,565
MAR	249.820	8.06	0.1	5	157	4.7	313	9,709	1.9	128	3,982	0.06	4	126	2.57	173	5,354	3.68	247	7,669
APR	237.141	7.90	0.2	10	304	5.3	348	10,426	1.9	125	3,742	0.08	5	158	2.30	152	4,550	3.51	232	6,948
MAY	247.320	7.98	0.0	0	0	1.4	92	2,866	0.1	6	181	0.11	7	232	1.57	104	3,233	2.66	177	5,477
JUN	229.248	7.64	0.0	0	0	0.3	22	645	0.3	18	536	0.12	8	228	0.00	0	0	1.06	68	2,033
JUL	260.414	8.40	0.0	0	0	0.1	4	137	0.0	0	0	0.20	14	429	0.03	2	61	1.37	96	2,970
AUG																				
SEP																				
OCT																				
NOV																				
DEC																				
Average	227.878	7.51	0.2	12	371	2.7	163	4,925	1.5	87	2,609	0.13	8	246	1.51	93	2,765	2.69	167	5,009
Total	1,595.149				2,597			34,475			18,263			1,720			19,356			35,066
All time record best(s) ->			0.0	0	0	0.0	0	0	0.0	0	0	0.05	2	75	0.00	0	0	0.85	51	1,586

The effluent quality was in compliance with all of the above permit parameters for July 2021.

EFFLUENT QUALITY - CURRENT YEAR 2020 NEW WATER (GBMSD) - DE PERE FACILITY															Ammonia Limits					
Permit Limits:			10 mg/L			N/A			9.0 mg/L			1.0 mg/L			Jan-Mar. Monthly Avg = 27 mg/L Daily Max = 34 mg/L April Monthly Avg = 24 mg/L Daily Max = 34 mg/L May-Oct Monitor only Nov-Dec. Monthly Avg. = 31 mg/L Daily Max = 34 mg/L					
MONTH	FLOW		TSS			T-BOD			C-BOD			T. PHOSPHORUS			AMMONIA			TKN		
	Million Gallons	MGD	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month	Ave mg/L	Ave #/Day	Total #/Month
JAN	176.077	5.68	0.0	0	0	0.8	39	1,214	0.4	21	658	0.17	8	255	0.01	0	13	1.09	52	1,599
FEB	205.471	7.09	2.0	118	3,427	3.4	199	5,759	2.8	167	4,853	0.15	9	266	0.69	42	1,209	2.17	129	3,742
MAR	247.744	7.99	1.1	72	2,222	1.5	100	3,087	1.3	84	2,593	0.10	7	209	0.06	4	116	1.01	67	2,088
APR	183.644	6.12	1.1	55	1,644	1.3	66	1,968	1.3	66	1,986	0.16	8	244	0.01	1	19	1.12	57	1,717
MAY	250.174	8.07	0.2	12	377	0.5	34	1,069	0.6	41	1,280	0.13	9	274	0.01	1	19	0.85	57	1,772
JUN	240.468	8.02	0.0	0	0	0.2	11	327	0.4	28	848	0.23	15	465	0.02	1	36	1.10	73	2,201
JUL	210.719	6.80	2.1	117	3,612	2.5	139	4,313	2.6	149	4,607	0.37	21	645	0.19	11	342	1.80	102	3,160
AUG	184.895	5.96	1.2	58	1,800	1.8	91	2,816	1.8	87	2,703	0.21	11	326	0.16	8	245	1.54	77	2,379
SEP	189.909	6.33	0.2	9	262	0.4	22	649	0.1	8	236	0.21	11	340	0.00	0	0	1.07	56	1,694
OCT	190.850	6.16	0.6	30	936	1.9	99	3,072	1.8	93	2,897	0.23	12	365	0.01	0	13	1.09	56	1,737
NOV	208.931	6.96	1.0	57	1,696	2.7	153	4,756	2.3	136	4,079	0.14	8	240	0.00	0	0	1.30	76	2,269
DEC	180.512	5.82	0.8	41	1,278	2.9	139	4,310	3.1	148	4,597	0.17	8	260	0.02	1	34	1.34	65	2,019
Average	205.783	6.75	0.9	47	1,438	1.7	91	2,778	1.5	86	2,611	0.19	11	324	0.10	6	171	1.29	72	2,198
Total	2,469.394				17,254			33,340			31,337			3,889			2,046			26,377
All time record best(s) ->			0.0	0	0	0.0	0	0	0.0	0	0	0.05	2	75	0.00	0	0	0.85	51	1,586



R2E2 ENERGY REPORT GREEN BAY 2021

NEW Water (GBMSD) - GREEN BAY FACILITY

	Bio-gas Generated					Electricity Used					Natural Gas Used								
	Generators			Flare		Purchased			Generated		Incineration			Heating Boiler		Thermal Oil Boiler		Co-Generation Units	
	Total (CCF)	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (MWH)	Total (MWH)	% of Total	Total (MWH)	% of Total	Total (CCF)	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (CCF)	% of Total
January	276,162	243,970	88.3	32,192	11.7	3,468	622	17.9	2,846	82.1	254,976	21,626	8.5	79,779	31.3	0	0.0	153,571	60.2
February	211,073	198,503	94.0	12,570	6.0	3,100	1,776	57.3	1,324	42.7	142,044	14,885	10.5	118,917	83.7	2	0.0	8,240	5.8
March	245,302	219,414	89.4	25,888	10.6	3,479	795	22.9	2,683	77.1	203,013	16,383	8.1	39,993	19.7	0	0.0	146,637	72.2
April	269,591	263,073	97.6	6,518	2.4	3,306	729	22.0	2,577	78.0	141,343	16,552	11.7	23,000	16.3	0	0.0	101,791	72.0
May	300,435	287,040	95.5	13,395	4.5	3,541	783	22.1	2,758	77.9	132,443	18,899	14.3	8,373	6.3	0	0.0	105,171	79.4
June	234,488	233,747	99.7	741	0.3	3,525	1,478	41.9	2,047	58.1	92,844	18,196	19.6	2,954	3.2	0	0.0	71,694	77.2
July	247,995	246,330	99.3	1,665	0.7	3,638	2,142	58.9	1,496	41.1	28,172	16,069	57.0	3,161	11.2	0	0.0	8,942	31.7
August	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0
September	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0
October	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0
November	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0
December	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0.0	0	0.0

	Co-Generation Unit #3 (P-21)						Co-Generation Unit #4 (P-22)						High Strength Waste Received	Struvite Harvested		
	Monthly Run Time (hours)	Total Energy Generated (MWH)	Gas Consumption				Monthly Run Time (hours)	Total Energy Generated (MWH)	Gas Consumption							
			Bio-gas		Natural Gas				Bio-gas		Natural Gas					
			Total (CCF)	% of Total	Total (CCF)	% of Total			Total (CCF)	% of Total	Total (CCF)	% of Total				
January	763	1,486	245,428	99.4	1,470	0.6	709	1,360	152,113	12	0.0	152,101	100.0	2,291,391	0	
February	656	1,277	199,791	96.9	6,118	3.1	26	47	6,952	4,830	69.5	2,122	30.5	1,998,380	0	
March	711	1,381	217,051	98.5	3,306	1.5	731	1,302	149,000	5,669	3.8	143,331	96.2	2,472,752	0	
April	706	1,273	177,100	94.8	44,595	25.2	671	1,304	187,764	130,568	69.5	57,196	30.5	2,380,408	0	
May	742	1,349	188,206	94.4	48,211	25.6	723	1,409	204,005	147,045	72.1	56,960	27.9	2,613,110	0	
June	735	1,373	172,663	100.0	36,393	21.1	345	674	96,385	61,084	63.4	35,301	36.6	2,419,081	0	
July	150	290	49,744	99.5	266	0.5	620	1,207	205,528	196,852	95.8	8,676	4.2	2,404,193	0	
August			0	0.0	0	0.0			0	0.0	0	0.0	0	0.0		
September			0	0.0	0	0.0			0	0.0	0	0.0	0	0.0		
October			0	0.0	0	0.0			0	0.0	0	0.0	0	0.0		
November			0	0.0	0	0.0			0	0.0	0	0.0	0	0.0		
December			0	0.0	0	0.0			0	0.0	0	0.0	0	0.0		

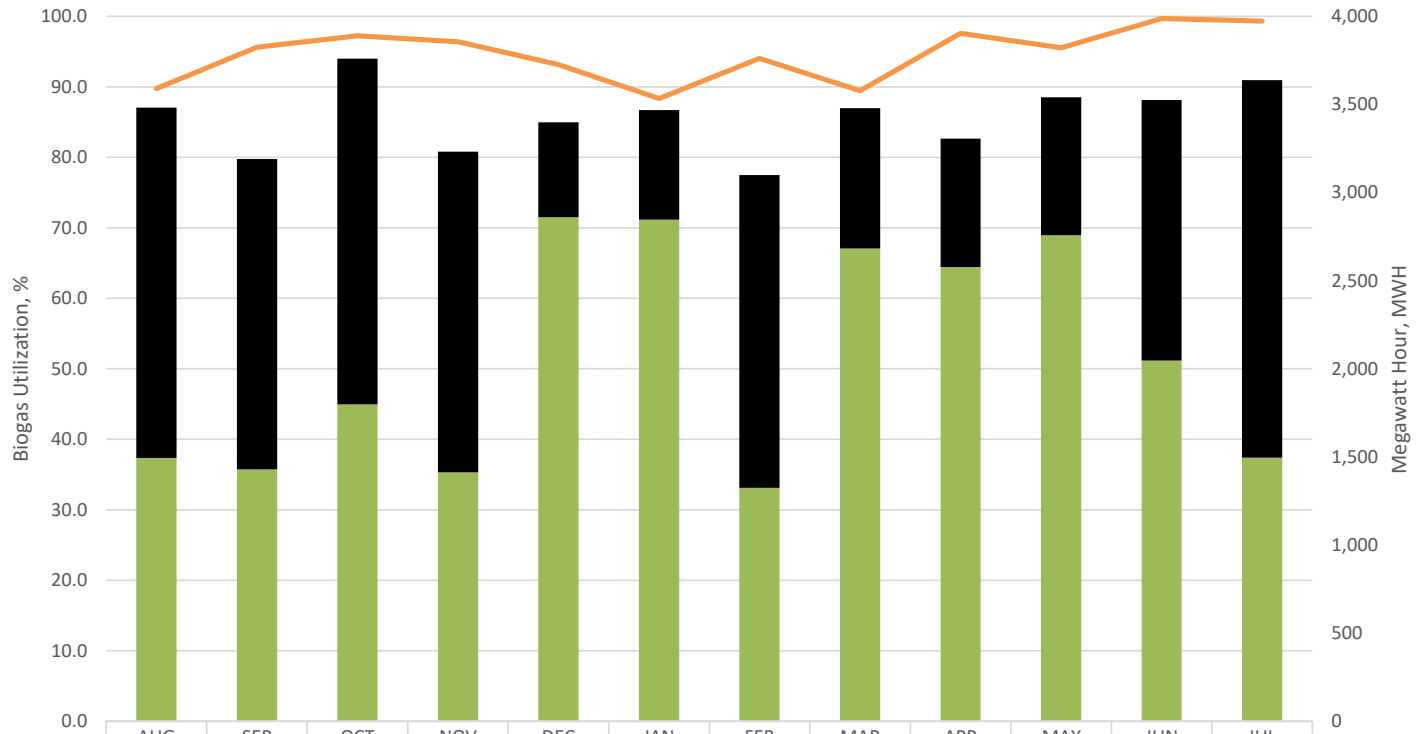
R2E2 ENERGY - CURRENT YEAR 2020

NEW Water (GBMSD) - GREEN BAY FACILITY

	Bio-gas Generated					Electricity Used					Natural Gas Used								
	Generators			Flare		Purchased			Generated		Incineration			Heating Boiler		Thermal Oil Boiler		Co-Generation Units	
	Total (CCF)	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (MWH)	Total (MWH)	% of Total	Total (MWH)	% of Total	Total (CCF)	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (CCF)	% of Total	Total (CCF)	% of Total
January	240,152	222,724	92.7	17,428	7.3	3,657	2,123	58.1	1,533	41.9	125,740	6,357	5.1	109,385	87.0	0	0.0	9,998	8.0
February	202,546	198,889	98.2	3,657	1.8	3,078	1,765	57.4	1,312	42.6	132,965	13,235	10.0	108,484	81.6	0	0.0	11,246	8.5
March	220,334	203,695	92.4	16,639	7.6	3,572	2,191	61.3	1,381	38.7	101,861	17,038	16.7	77,163	75.8	0	0.0	7,660	7.5
April	247,422	10,817	4.4	236,605	95.6	3,271	3,116	95.3	154	4.7	111,252	17,341	15.6	85,014	76.4	47	0.0	8,850	8.0
May	236,572	231,843	98.0	4,729	2.0	3,618	2,120	58.6	1,498	41.4	53,669	16,287	30.3	33,651	62.7	0	0.0	3,731	7.0
June	208,145	204,907	98.4	3,238	1.6	3,359	1,893	56.4	1,466	43.6	42,616	14,244	33.4	2,939	6.9	3	0.0	25,430	59.7
July	217,441	211,340	97.2	6,101	2.8	3,569	1,298	36.4	2,271	63.6	125,814	16,137	12.8	8	0.0	0	0.0	109,669	87.2
August	251,333	225,606	89.8	25,727	10.2	3,482	1,988	57.1	1,494	42.9	42,483	19,650	46.3	1,254	3.0	0	0.0	21,579	50.8
September	181,387	173,442	95.6	7,945	4.4	3,191	1,761	55.2	1,430	44.8	56,135	17,854	31.8	0	0.0	10	0.0	38,271	68.2
October	212,749	206,890	97.2	5,859	2.8	3,760	1,961	52.2	1,799	47.8	107,583	23,588	21.9	31,966	29.7	240	0.2	51,789	48.1
November	203,923	196,597	96.4	7,326	3.6	3,232	1,820	56.3	1,412	43.7	100,885	17,218	17.1	60,625	60.1	0	0.0	23,042	22.8
December	246,017	229,123	93.1	16,894	6.9	3,399	539	15.9	2,860	84.1	243,286	20,193	8.3	68,991	28.4	0	0.0	154,102	63.3

	Co-Generation Unit #3 (P-21)						Co-Generation Unit #4 (P-22)						High Strength Waste Received	Struvite Harvested	
	Monthly Run Time (hours)	Total Energy Generated (MWH)	Gas Consumption				Monthly Run Time (hours)	Total Energy Generated (MWH)	Gas Consumption						
			Bio-gas		Natural Gas				Bio-gas		Natural Gas				
			Total (CCF)	% of Total	Total (CCF)	% of Total			Total (CCF)	% of Total	Total (CCF)	% of Total			
January	212	412	43,660	95.8	1,845	4.2	580	1,121	189,062	180,909	95.7	8,153	4.3	1,588,734	0
February	672	1,308	209,577	94.7	11,033	5.3	2	4	558	345	61.8	213	38.2	1,490,460	0
March	600	1,168	174,736	96.0	6,993	4.0	110	213	36,619	35,952	98.2	667	1.8	1,869,090	0
April	90	154	19,667	55.0	8,850	45.0	0	0	0	0	0.0	0	0.0	2,140,426	0
May	768	1,498	235,574	98.4	3,731	1.6	0	0	0	0	0.0	0	0.0	2,104,936	0
June	421	785	123,202	94.2	7,179	5.8	375	681	107,135	88,884	83.0	18,251	17.0	2,007,216	0
July	745	1,115	163,231	95.6	23,429	14.4	746	1,156	157,778	71,538	45.3	86,240	54.7	2,188,134	0
August	231	434	71,087	94.5	3,931	5.5	564	1,060	176,098	158,450	90.0	17,648	10.0	2,283,659	0
September	461	897	137,245	98.3	16,022	11.7	277	533	74,468	52,219	70.1	22,249	29.9	2,264,061	0
October	673	1,309	183,661	94.8	39,833	21.7	253	490	75,018	63,062	84.1	11,956	15.9	1,993,814	0
November	160	305	42,254	94.0	10,984	26.0	570	1,107	177,385	165,327	93.2	12,058	6.8	2,015,247	0
December	744	1,447	230,819	99.2	1,797	0.8	730	1,412	152,406	101	0.1	152,305	99.9	2,159,427	0

GBF Energy Utilization - R2E2



 Purchased Electricity, MWH	1,988	1,761	1,961	1,820	539	622	1,776	795	729	783	1,478	2,142
 Generated Electricity, MWH	1,494	1,430	1,799	1,412	2,860	2,846	1,324	2,683	2,577	2,758	2,047	1,496
 Biogas Utilized, %	89.8	95.6	97.2	96.4	93.1	88.3	94.0	89.4	97.6	95.5	99.7	99.3

Memorandum

TO: Commissioners

FROM: Tom Sigmund

DATE: August 12, 2021

SUBJECT: August Commission Meeting – Executive Director’s Report

- a) The September Commission meeting will be held on Wednesday, September 22, 2021, beginning at 8:30 a.m. This meeting will be a Zoom meeting due to the rise in COVID cases.
- b) Attached is a document summarizing the agreements I have approved since my last report in February 2021.
- c) Attached is a listing of NEW Water Policies that are approved by either the Commission or the Executive Director. Please review the list and let me know if you have any questions. I plan to discuss the responsibilities for policy approval at a subsequent Commission meeting to see if any changes need to be made.
- d) Current health conditions in Brown County have changed due to the Delta variant. Per CDC guidelines, effective August 4, 2021, NEW Water reintroduced the requirement to wear masks for all those at NEW Water facilities and properties, regardless of vaccination status, when there is less than six feet of separation indoors and all enclosed indoor spaces (such as offices, conference rooms).

Additionally, NEW Water closed its facilities, allowing essential visitors only on site. On August 4, 2021, NEW Water also required all staff to complete a Vaccination Status Disclosure form. The NEW Water COVID-19 Focus Team continues to convene regularly, assess local conditions, follow trusted sources, track best practices, maintain open communications with health officials, and provide guidance for NEW Water. To date, there have been ten positive cases amongst staff.

- e) NEW Water teamed up with the Boys & Girls Club of Greater Green Bay for the 6th annual STEAM Superheroes Camp, held in a virtual format again this year. NEW Water forged the partnership with the Club to help engage, inspire, and educate area youth on the importance of protecting our most valuable resource, water. This year, 31 children earned “Defenders of the Bay” badges by doing a trash pickup at the Club facility, and learning about how pollutants can harm our waterways, and what they can do to protect area waters (included photo features some of the 2021 campers). They teamed up with NEW Water’s “Commander CleanWater” and “Watershed Warrior Woman” to defeat the evil villains, “Phosphorus Phury,” and “Sinister Sediment,” and “Unflushables.”



Said one 9-year-old Club member and new Defender of the Bay: *“I now know what not to flush and what I can flush! I didn't know that I shouldn't flush wipes. I can't wait to go home and tell my mom and dad!”* [Learn more here.](#)

- f) Heavy rainfalls on August 8, 2021 meant significant amounts of water inundating NEW Water's two facilities: 132 million gallons, more than three times the normal amount of flow coming into the facilities to be treated. Thanks to the diligence of staff, service was not compromised for the families, visitors, businesses, and industries who rely on this essential service. Continued asset reliability is the reason why NEW Water is currently planning for future needs, through a Facilities Plan and a Capital Improvement Plan. At the same time, with all of this clear water (Inflow & Infiltration [I&I]) getting into the system, NEW Water is actively engaging municipal partners to establish a Regional I&I Reduction Program. [Learn more here.](#)

Attachments