

AGENDA
GREEN BAY METROPOLITAN SEWERAGE DISTRICT
COMMISSION MEETING
September 30, 2015
Daniel J. Alesch Training Center, 2231 N. Quincy Street
8:30 a.m.

- 1) Safety moment. (Sigmund)
- 2) Introduce new employees:
 - a) Lana Vickman, Support Services Assistant (Van Sistine)
 - b) Stefanie Stainton, Communication and Education Specialist (Garrison)
- 3) 2016 Budget workshop. (Sigmund)
- 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) Claims related to West Tower Drive Interceptor failure
- 5) Reconvene in open session.
- 6) Approval of minutes of Commission meetings held August 18, 26, and September 11, 2015.
- 7) August financials. (Heimerman)
[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) Request Commission approval of abatement of taxes for 2016. (Diaz)
[Click Here: Memo](#)
- 9) Request Commission approval of the 2016 health insurance plan and premium sharing. (Brown)
[Click Here: Memo](#)
- 10) Request Commission approval of the 2016 salary market adjustment. (Brown)
[Click Here: Memo](#)
- 11) Adopt Resolution Authorizing Representatives to File Applications for Financial Assistance from State of Wisconsin Environmental Improvement Fund. (Sigmund)
[Click Here: Memo](#)
- 12) Approve Resolution Authorizing the Issuance and Sale of up to \$138,880,269 General Obligation Sewerage System Promissory Notes, Series 2015A and Providing for Other Details and Covenants with Respect Thereto. (Diaz)
[Click Here: Memo](#)

- 13) Request Commission approval for the addition of the Asset Reliability Coordinator position to the Maintenance Department and the associated revision to the organizational chart. (Wescott)
[Click Here: Memo](#)
- 14) Request Commission approval to close out the MCC-B1/B1A Replacement Contract 14-033-CO and issue final payment of \$21,431.25 to Van Ert Electric Co., Inc. (Sarau)
[Click Here: Memo](#)
[Click Here: Project Report](#)
- 15) Request Commission approval of Contract 34 Digestion and Solids Facility – Change Order No. 1. (Angoli)
[Click Here: Memo](#)
- 16) Sewer plan approval: (Angoli)
[Click Here: Memo](#)
 a) Town of Lawrence #L0017-950424; GBMSD Request 2015-09
[Click Here: Map](#)
- 17) 2015 Whole Effluent Toxicity testing process and results. (Wilcox)
[Click Here: Memo](#)
- 18) Update of projects: (Angoli)
 a) Resource Recovery and Electrical Energy (R2E2)
[Click Here: Memo](#)
 b) Green Bay Facility Pump Station Secondary Feeder Replacement Project (Mentink)
[Click Here: Memo](#)
- 19) Operation report: (Wescott)
[Click Here: Memo](#)
 a) Effluent quality for August
[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](#)
 b) Air quality for August
[Click Here: Air Report – Green Bay Facility](#)
[Click Here: Graph of Air Report – Green Bay Facility](#)
- 20) Executive Director’s report: (Sigmund)
[Click Here: Memo](#)
 a) October Commission meeting

Memorandum

TO: Commission
Tom Sigmund

FROM: Kelly Heimerman

DATE: September 24, 2015

SUBJECT: 2015 August Financial Statements

Please find attached the Financial Statements for your review.

Operating Revenues

- August's operating revenues were favorable to budget by \$331K or 13% due mainly to other revenues from septage and favorable loads and flow volumes.
- Year-to-date 2015, total operating revenues were favorable to budget by \$1.3M or 6% from other revenues from septage.

Operating Expenses

- August's operating expenses were unfavorable to budget by \$13K or 1% from chemicals, power and office related expenses.
- August's unfavorable operating expenses were offset by favorable results compared to budget due to lower expenditures than budgeted from plant maintenance and salaries and benefits.
- Year-to-date 2015, total operating expenses were favorable to budget by \$764K or 6% from:
 - Salaries and benefits from vacant positions (one vacant in August) and workers' compensation refunds of \$57K due to low mod factor and annual audit.
 - Less usage of chemicals compared to budget and timing of polymer loads.
 - Natural gas and fuel oil from less gas used in heating and incineration at the Green Bay Facility than projected.
 - Interceptor maintenance less than budgeted due to timing.

Net Income

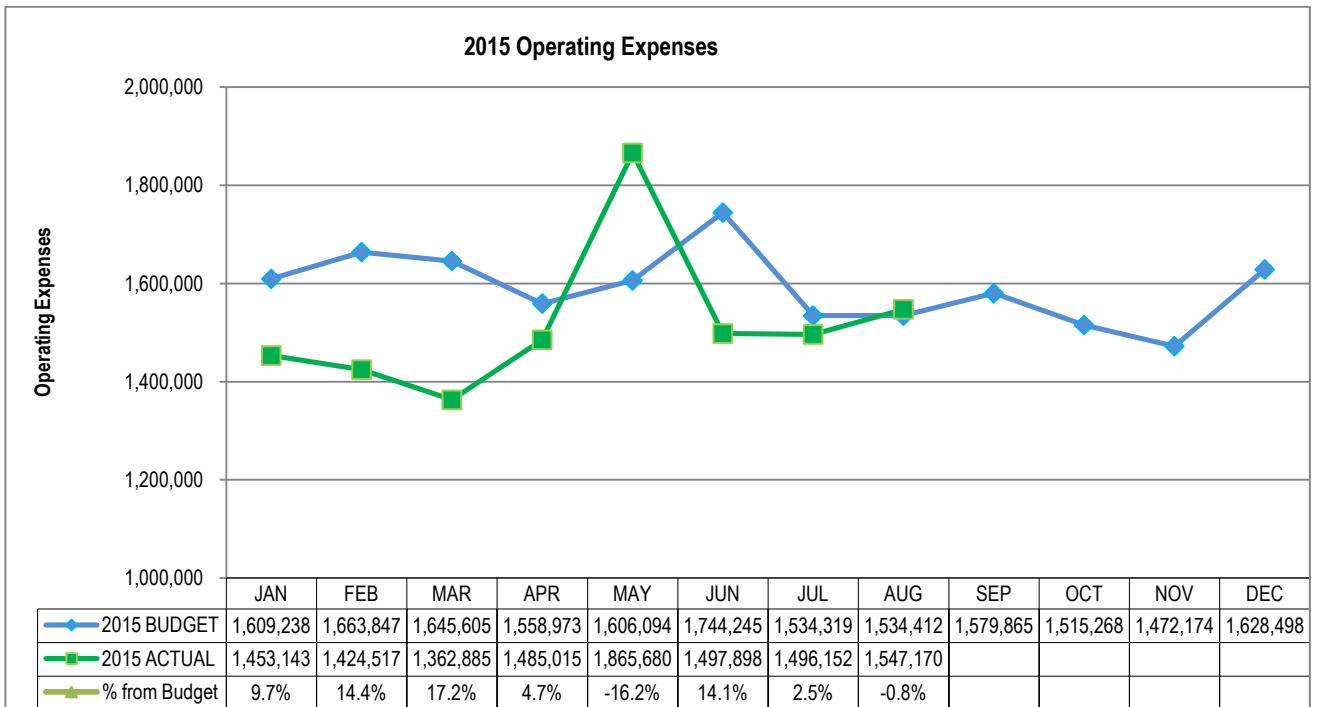
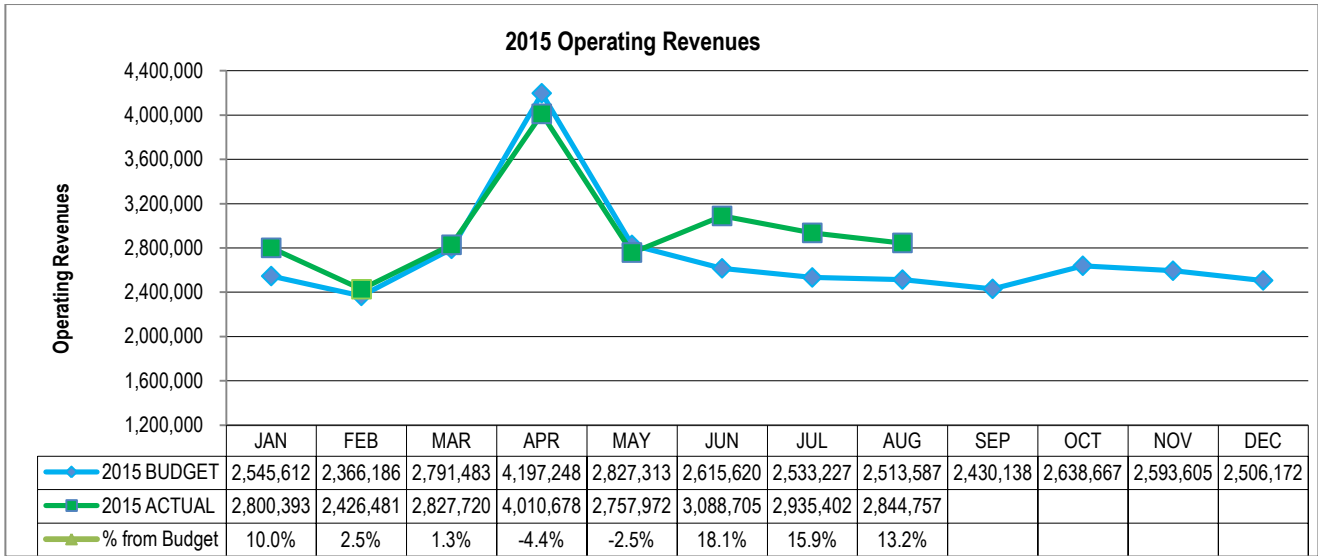
The net income for the month of August was \$374K from operating income (Operating Revenues less Operating Expenses).

Reporting and Information

The Operating Revenue and Expense graphs, and the Income Statement and Statements of Net Position Legends are attached.

No Commission action is required.

NEW Water



NEW Water
Green Bay Metropolitan Sewerage District
INCOME STATEMENT
For the Eight Months Ending August 31, 2015

	Current Month			Year to Date			
	Budget 2015	Actual 2015	Budget vs. Actual Favorable/ (Unfavorable)	Budget 2015	Actual 2015	Budget vs. Actual Favorable/ (Unfavorable)	Actual 2014
Operating Revenues							
User Fees - Municipal Waste	\$ 2,346,142	\$ 2,498,349	\$ 152,207	\$ 19,881,767	\$ 19,856,619	\$ (25,148)	\$ 19,653,412
User Fees - Mill Waste	110,682	121,129	10,447	831,699	767,173	(64,526)	860,537
Capital - Mills	-	-	-	1,120,088	1,114,945	(5,143)	1,056,883
Other Revenues	56,764	225,279	168,515	556,728	1,953,371	1,396,643	1,583,452
Total Operating Revenues	\$ 2,513,588	\$ 2,844,757	\$ 331,169	\$ 22,390,282	\$ 23,692,108	\$ 1,301,826	\$ 23,154,284
Operating Expenses							
Salaries	\$ 602,593	\$ 589,691	\$ 12,902	\$ 4,625,645	\$ 4,537,818	\$ 87,827	\$ 4,410,471
Benefits	227,282	206,079	21,203	1,762,866	1,593,780	169,086	1,710,878
Employee Development	19,509	11,899	7,610	99,811	70,859	28,952	67,792
Travel and Meetings	2,146	9,499	(7,353)	51,560	44,149	7,411	32,355
Power	186,361	221,997	(35,636)	1,590,653	1,590,954	(301)	1,602,661
Natural Gas & Fuel Oil	54,219	43,738	10,481	836,537	730,924	105,613	1,000,343
Chemicals	64,464	111,752	(47,288)	464,536	333,159	131,377	393,206
Maintenance - Plant	97,572	54,422	43,150	986,962	943,849	43,113	861,155
Maintenance - Interceptors	27,535	17,192	10,343	251,734	175,001	76,733	134,621
Contracted Services	166,882	167,014	(132)	1,337,910	1,294,913	42,997	1,275,669
Insurance	17,493	16,611	882	138,299	133,967	4,332	135,691
Solid Waste Disposal	22,380	14,484	7,896	180,489	107,194	73,295	162,523
Office Related Expenses	19,364	51,744	(32,380)	274,310	324,086	(49,776)	240,487
Supplementary Expenses	26,611	31,048	(4,437)	295,422	251,809	43,613	209,449
(See Legend)							
Total Operating Expenses	\$ 1,534,411	\$ 1,547,170	\$ (12,759)	\$ 12,896,734	\$ 12,132,462	\$ 764,272	\$ 12,237,301
Operating Income	\$ 979,177	\$ 1,297,587	\$ 318,410	\$ 9,493,548	\$ 11,559,646	\$ 2,066,098	\$ 10,916,983
Non-Operating Revenues and Expenses							
Investment Income	\$ 45,906	\$ 60,049	\$ 14,143	\$ 486,722	\$ 656,189	\$ 169,467	\$ 407,166
Depreciation	(617,011)	(617,011)	-	(4,936,092)	(4,936,088)	-	(4,545,832)
Gain (Loss) on Disposal of Fixed Assets	-	-	-	-	-	-	3,707
Interest Expense	(468,045)	(366,508)	101,537	(3,744,363)	(2,605,305)	1,139,058	(2,114,440)
Total Non-Operating Revenues and Expenses	\$ (1,039,150)	\$ (923,470)	\$ 115,680	\$ (8,193,733)	\$ (6,885,204)	\$ 1,308,529	\$ (6,249,399)
Net Income (Loss)	\$ (59,973)	\$ 374,117	\$ 434,090	\$ 1,299,815	\$ 4,674,442	\$ 3,374,627	\$ 4,667,584

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
STATEMENT OF NET POSITION
For the Eight Months Ended August 31, 2015

Assets

Current Assets	
Cash and Investments	\$ 15,082,003
Receivables	
Sewage Treatment Service	3,553,873
Other	474,320
Inventories	959,024
Prepaid Expenses	281,634

Total Current Assets	\$ 20,350,855
Restricted Assets	
Cash and Investments	\$ 78,760,270
Accrued Interest Receivables	115,102
Interceptor Cost Recovery Receivable	4,192,724

Total Restricted Assets	\$ 83,068,097
Capital Assets	
Wastewater Treatment Facilities	\$ 200,270,734
Interceptor Sewers	82,988,041
Construction in Progress	40,333,323

Total Capital Assets	\$ 323,592,098
Less: Accum Depreciation and Amortization	(125,844,321)

Net Capital Assets	\$ 197,747,777

Total Assets	\$ 301,166,729
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Liabilities and Equity

Current Liabilities	
Accounts Payable	\$ 1,122,340
Salaries Payable	304,182
Other Accrued Liabilities	94,851

Total Current Liabilities	\$ 1,521,373
Liabilities Payable from Restricted Assets	
Accounts Payable	\$ 226,423
Current Maturities of General Long-Term Debt	85,109
Interest Accrued	1,612,002

Total Liabilities Payable from Restricted Assets	\$ 1,923,534
Long-Term Liabilities	
General Long-Term Debt, Less Current Maturities	\$ 90,102,605
Compensated Absences	1,513,550
Deferred Revenue	2,274,505

Total Long-Term Liabilities	\$ 93,890,660

Total Liabilities	\$ 97,335,567

Net Position

Net Position	
Invested in Capital Assets, net of Related Debt	\$ 107,560,063
Restricted for Equipment & Interceptor Replacement	41,667,442
Restricted for Debt Retirement	26,286,754
Restricted for Capital Projects	12,920,581
Unrestricted	15,396,322

Total Net Position	\$ 203,831,162
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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: Maridey Diaz

DATE: September 22, 2015

SUBJECT: Abatement of Taxation Levy for 2016

Background

Under Chapter 67 Municipal Borrowing and Municipal Bonds Section §67.11, municipalities that issue debt obligations must establish and maintain a debt service fund for payment of these obligations:

§67.11 Debt service fund. (1) Each municipality that issues municipal obligations under this chapter...shall establish and maintain a debt service fund in accordance with generally accepted accounting principles.

Additionally, Chapter 200 Metropolitan Sewerage Districts Subchapter I §200.13(2),(5) permits Sewerage Districts to levy a tax upon property for its performance of duties:

§200.13(2) Tax Levy. The commission may levy a tax upon the taxable property in the district as equalized by the department of revenue for state purposes for the purpose of carrying out and performing duties under this subchapter...

§200.13(5) Borrowing; Tax Collection. After the issue of any municipal obligation... the commission shall, on or before October 1 in each year, certify in writing to the clerks of the several cities, villages or towns having territory in the district, the total amount of the tax to be raised by each such municipality...

In 67.05(10) and 67.12(12)(ee), Metropolitan sewerage districts are permitted to abate the above stated taxation by having sufficient funds available in its designated debt service fund to pay those debt obligations for the following year.

The Green Bay Metropolitan Sewerage District (GBMSD) has the authority to finance its capital projects through the use of an ad valorem tax, user fee or sale of revenue or general obligation bonds. Although GBMSD retains the authority to levy taxes to support operations, no such levy has been in place since 1977.

GBMSD will have sufficient funds on hand to support all debt service requirements for 2016 as of October 1, 2015 from rate collection, offsets, and transfers. Please reference attached reporting and information on:

1. Debt service requirements needed by NEW Water through the calendar year of 2016.
2. Schedule of funds available by reserves.

The funds available in GBMSD Debt Service reserves are \$27,586,367 and the requirement funds for 2016 is \$9,626,310. **Note:** The \$27,586,367 reflects restrictive debt prepayment from Georgia-Pacific of \$2,226,284 and debt payments to be deducted by Nov.1, 2015 of \$1,592,096.

Recommendation

Staff recommends to abate the tax levy for the cities, villages, and towns having territory in NEW Water for 2016.

Commission Action

Request Commission approval to abate the tax levy for 2016.

Reporting and Information

Debt Service Requirement for 2015 and Funds Available Statement.

Memorandum

TO: Commission
Tom Sigmund

FROM: Trisha Brown

DATE: September 22, 2015

SUBJECT: Commission Approval of the 2016 Health Insurance Plan and Premium Sharing

Staff is requesting Commission action on the 2016 Wisconsin Public Employers (WPE) Group Health Insurance program for local government employee's premium sharing and program option. The state has designated October 5 – 30, 2015 as the open enrollment period.

Background

NEW Water has participated in the WPE Group Health Insurance HMO since 2004. Employees currently participate in three of the seven state qualified plans available in Brown County in 2015. The plans are Anthem Blue Northeast, Network Health Plan, and United HealthCare NE with 94% of employees participating in Anthem Blue Northeast.

Staff has reviewed the health plans and WPE program options available to NEW Water in 2016. Dean Health Insurance – Prevea 360 is now the lowest cost health plan available to NEW Water although the monthly premium is less than \$1.00 per month compared to Anthem Blue Northeast. Due to the minimal cost difference and the fact that the majority of employees currently participate in the Anthem plan, all cost comparisons and premium sharing calculations are based off the Anthem premiums.

New for 2016, WPE has eliminated the Uniform Dental Benefits from the individual health plans and are offering dental benefits as a stand-alone benefit through Delta Dental of Wisconsin. After careful comparison with NEW Water's current level of dental benefits provided by Lincoln Financial, it was determined that the coverage offered through WPE is not sufficient enough to provide the level of coverage that a typical employer sponsored dental plan offers and would result in a decreased level of benefit to its employees. In addition, the dental agreement made with Lincoln Financial for 2015 included a two year rate guarantee that runs through December 31, 2016.

As a result of the change in dental coverage, WPE has expanded its program options from four to eight. This reflects the same four program options offered in 2015 and four new plans that duplicate the same four options but include the dental benefits. As in 2015, the High Deductible Health plan is the lowest cost program offered through WPE for 2016. The HDHP option has a \$1,500 single and \$3,000 family deductible. The \$500 single and \$1,000 family deductible plan, which is NEW Water's current HMO program option, is the next lowest cost option, but is approximately 14.8% higher than the HDHP plan. The annual cost savings of the HDHP compared to the current HMO plan to NEW Water based on budgeted enrollment and proposed cost sharing is \$171,336.

Although the HDHP option is the lowest cost plan to NEW Water, the migration to this plan will result in a greater at-risk cost to employees. The HDHP deductible is higher by \$1,000 for the single plan and \$2,000 for the family plan. In addition, a single plan would incur an additional \$1,000 at-risk cost for 90/10 coinsurance after the deductible is met while a family plan would incur an additional \$2,000 at-risk cost for 90/10 coinsurance. While the annual employee premium cost savings would be \$145.20 for the single plan and \$375.60 for the family plan, the additional at-risk cost is \$2,000 for single and \$4,000 for family. The difference between the total of the increased deductible and coinsurance and the premium cost savings calculates to an annual at-risk employee cost of \$1,854.80 for a single plan and \$3,624.40 for a family plan.

As noted last year, typically when an employer transitions to an HDHP plan, the premium savings due to the higher deductible provides the employer with the opportunity to contribute dollars to a Health Savings Account (HSA) for each employee. The HSA contribution helps to minimize the additional at-risk cost of the higher deductible and out of pocket costs to employees. The following table illustrates employer contribution of \$1,000 for a single plan and \$2,000 for a family plan to an HSA and how it affects overall costs to NEW Water and the employees.

HDHP with HSA Contribution

Health Plan	2016 Annual Premium HMO \$500/\$1000 (14% EE Share)	2016 Annual Premium HDHP \$1500/\$3000 (14% EE Share)	Annual Premium Savings	NEW Water HSA Contribution
NEW Water Single	\$6,888	\$6,000	\$888	\$1,000
NEW Water Family	\$17,088	\$14,880	\$2,208	\$2,000
Employee Single	\$1,099	\$954	\$145	
Employee Family	\$2,774	\$2,399	\$375	
HDHP Annual Cost Savings to NEW Water			\$171,336	
HSA Annual Cost to NEW Water				\$163,000
Final Cost Savings to NEW Water				\$8,336

In this example, while NEW Water would realize an overall annual cost savings of \$8,336, employees would assume additional at-risk cost of \$855 for a single plan and \$1,624 for a family plan.

For 2016, staff has concluded that the cost savings of transitioning to an HDHP plan and providing an employer contribution to an HSA is not warranted at this time due to the additional at-risk cost assumed by employees due to the increased deductible and out of pocket limits. It is important to note, however, that the overall cost savings of the HDHP plan has increased to almost 15% from 2015 to 2016. Assuming that this trend will continue for HDHP plans, staff recommends that an educational plan be developed for 2016 to prepare employees for the transition to an HDHP in 2017 if premium cost savings warrant the transition.

The cost comparisons identified throughout this memo have all been based on a 14% employee premium cost share of the Anthem Blue Northeast health plan. The employee's premium cost share for 2015 is currently 12%. This increase in the employee cost share brings NEW Water in line with the market and provides a cost savings to NEW Water of \$31,218 for 2016.

Also new for 2016, the state will now allow local employers to provide an opt-out incentive to employees who chose not to participate in the health plan. Previously, only state employers were given this opportunity. Local employers are not required to replicate the state opt-out components and therefore are able to design and administer their own opt-out program. The opt-out option incentivizes those employees who may have an alternative health plan option, typically through a spouse's employer, to cancel coverage which reduces overall health insurance costs to NEW Water. The following table illustrates the cost savings to NEW Water utilizing recommended incentives and the 2016 proposed annual cost for the single plan of \$6,888 and the family plan of \$17,088:

Opt-out incentive	Annual Cost Savings to NEW Water per employee exercising opt-out option
Single Plan - \$1,000	\$5,888
Family to Single Plan - \$1,500	\$8,700
Family Plan - \$2,500	\$14,588

As there is no way of knowing if any NEW Water employees will opt-out of the health plan for 2016, the budget does not reflect any cost savings.

Budget Impact

The following table compares the annualized total budget impact for 2013 through 2016. The 2016 budget reflects the continuation of the \$500/\$1,000 deductible HMO plan and the increase in employee premium share to 14%. This reflects a total reduction in NEW Water's health insurance expense of 1.4% compared to the 2015 budget. For the past three years, NEW Water has continued to decrease the overall health insurance expense by transferring more cost share to the employee which is consistent with market conditions.

Annualized Budget Impact

Budget Year	Amount Budgeted	% Budget Decrease (Increase) from prior year
2016	\$1,326,072	1.4%
2015	\$1,344,926	8.3%
2014	\$1,466,493	3.6%
2013	\$1,520,797	(24.8%)

The table below is a historical summary of employee premium sharing since 2013, including the proposed 2016 employee premium sharing.

Historical Summary of Monthly Employee Premium Sharing						
	Anthem Blue Northeast		Network Health Plan		United HealthCare NE	
	Single	Family	Single	Family	Single	Family
2016	\$91.60	\$231.20	\$134.00	\$337.20	\$269.70	\$676.40
2015	\$78.00	\$194.00	\$138.20	\$344.50	\$256.40	\$640.00
2014	\$60.00	\$150.00	\$109.80	\$274.50	\$161.20	\$403.00
2013			\$40.00	\$95.00	\$63.10	\$252.70

Recommendation

Staff recommends Commission approval to continue with the \$500/\$1,000 deductible HMO option and to contribute \$574 of the monthly single health insurance premium and \$1,424 of the monthly family health insurance premium with the remainder of the premium paid by the participating employee. In addition, staff recommends the implementation of an opt-out program providing annual incentive payments of \$1,000, \$1,500, and \$2,500 based on opt-out option.

Commission Action

Request Commission approval to continue with the \$500/\$1,000 deductible HMO program option and to set the NEW Water health insurance premium sharing in 2016 for full-time employees at \$574 per month for single plan coverage and \$1,424 per month for family plan coverage.

Request Commission approval to develop and implement an opt-out program that provides incentive payments of \$1,000, \$1,500, and \$2,500 for employees opting out of the single plan, opting from the family to single plan, and opting out of the family plan, respectively.

Memorandum

TO: Commission
Tom Sigmund

FROM: Trisha Brown

DATE: September 22, 2015

SUBJECT: 2016 Salary Market Adjustment

Background

Annually, NEW Water requests a review of relevant salary market data and pay plan projections from its compensation consultant, Carlson Dettmann Consulting LLC. Approximately every four years, a comprehensive study to benchmark most NEW Water positions is conducted while in interim years, mini-surveys are administered to maintain competitive market position from year to year. The last comprehensive study was completed in 2011. Earlier this year, a comprehensive review was completed engaging 30 different salary market data resources which matched 46 NEW Water job titles.

Attached to this memo is the 2015 Compensation Study Project Report that includes the findings and recommendations and various exhibits supporting the recommendations made by the consultant.

An employee briefing was held on September 22, 2015 to inform staff of the recommendation to the Commission. The briefing also provided a brief overview of NEW Water's pay philosophy and historical commitment to maintain a competitive market position in regards to the salary structure.

Recommendation

Based on the results of the survey data, staff recommends acceptance of the consultant's recommendation to hold the 2015 ranges for pay grades 5 through 9 and to adjust the ranges for pay grades 10 through 17 per Exhibit 6 of the project report for 2016.

Commission Action

Request Commission approval to hold 2015 ranges for pay grades 5 through 9 and to adjust ranges for pay grades 10 through 17 based on the consultant's recommendation.

Attachment

Memorandum

TO: Commissioners
FROM: Tom Sigmund
DATE: September 11, 2015
SUBJECT: Authorized Representatives for Financial Assistance Forms

Background

Attached is a resolution updating the positions that are authorized to file financial assistance applications with the State of Wisconsin Clean Water Fund Program (CWFP). The Engineering Services Manager position is being removed because it is not currently in the organization chart. The Director of Technical Services position is being added to the resolution.

Additionally, the CWFP requires Intent to Apply forms, Priority Evaluation and Ranking forms, and Loan Disbursement Request forms to be signed by an authorized representative.

Recommendation

Staff respectfully requests adoption of the resolution updating the authorized representatives.

Commission Action

Request Commission approval to adopt Resolution Authorizing Representatives to File Applications for Financial Assistance from State of Wisconsin Environmental Improvement Fund.

Attachment

Memorandum

TO: Commission
Tom Sigmund

FROM: Maridey Diaz

DATE: September 21, 2015

SUBJECT: Clean Water Fund Loan 4198-99 Application for Resource Recovery and Electrical Energy (R2E2) Project – Second Loan – Contract 34 Digestion and Solids Facility

Background

Staff is requesting the second Clean Water Fund loan application for the Resource Recovery and Electrical Energy (R2E2) Project. The first loan of \$16,337,158 has four major components: part of the Fluidized Bed Incineration Equipment Procurement, Contract 33 construction and engineering services during construction, and part of the R2E2 design services.

The second loan includes the remaining design services, the remaining Fluidized Bed Incineration Equipment Procurement, force account for staff salaries, and Contract 34 construction and engineering services during construction costs. Construction costs comprise the 90,000 square foot Solids Facility Building and related process equipment, including: dewatering centrifuges, fluidized bed incinerator, air pollution control equipment, and nutrient recovery system; two silo type digesters; septage receiving building; high strength waste receiving station; two ash dewatering basins; modifications to separate and pump the primary scum and sludge; modifications to North and South Plant aeration basins; modification to existing equalization tank; thickening centrifuge, new storm water pond, various underground utilities, process piping modifications, and general site restoration.

Contract 34 Digestion and Solids Facility will replace the aging solids handling facility at the Green Bay Facility (GBF) to provide solids capacity for the current and future loads while meeting new air pollution regulations. The project will provide for on-site electrical energy generation from biogas, harvest nutrients from the waste stream, and reduce the use of fossil fuel consumption significantly by providing sustainable facilities that minimize the use of resources and impacts on the environment.

All improvements will be installed at NEW Water's GBF. Contract 34 is scheduled for completion on or before August 12, 2018.

Previous requests presented and approved by the Commission include:

1. Award of the R2E2 design contract to CH2M HILL, Inc. on 5/23/2012.
2. Award of the R2E2 Value Engineering Study contract to Black & Veatch on 3/27/2013.
3. Award of the Fluidized Bed Incineration System contract to Infilco Degremont, Inc. on 12/18/2013.
4. Award of the Contract 33 construction project to Miron Construction Co., Inc. on 3/26/2014
5. Approval of the construction phase services to be provided by CH2M HILL, Inc. on 3/26/2014.
6. Approval of the Contract 34 construction project to C.D. Smith Construction Inc. on 6/24/2015.

Recommendation

Staff is requesting Commission approval of the General Obligation Note to start the process of closing the second Clean Water Fund Program loan for the R2E2 Project in the amount of \$138,880,269. This note will be issued at the subsidized interest rate of 2.06% within the 20-year limitations. Upon approval, the State of Wisconsin has scheduled the note closing for October 14, 2015.

Attached are the Financial Assistance Agreement and Municipal Obligation Resolution for Commission approval and signatures by the Commission President and Secretary.

Commission Action

Request Commission approval of the Resolution Authorizing the Issuance and Sale of up to \$138,880,269 General Obligation Sewerage System Promissory Notes, Series 2015A and Providing for Other Details and Covenants with Respect Thereto.

Attachments

Memorandum

TO: Commission
Tom Sigmund

FROM: Patrick Wescott

DATE: September 11, 2015

SUBJECT: Asset Reliability Coordinator

Background

NEW Water staff is requesting a change to the organizational chart within the Maintenance Department to create an Asset Reliability Coordinator position. This proposed new position would be salaried at a Pay Grade 11 and would report directly to the Maintenance Manager. The Asset Reliability Coordinator would increase the Maintenance Department staff from 23 to 24 positions. Attached is an organizational chart with the addition of the Asset Reliability Coordinator position.

NEW Water has been successful over the years in using preventive maintenance techniques to identify and correct maintenance issues before they become more costly or create environmental compliance issues. NEW Water has excelled at maintaining service levels, capacity, and compliance, while prolonging asset physical life. This proposed position would continue to maintain those levels, but would also focus on improving equipment and process reliability while monitoring and making cost-effective reinvestment in the assets. This approach would provide the best integration of maintenance, operation, and capital investment.

Responsibilities of the Asset Reliability Coordinator include:

- Maximizing equipment uptime through the use of preventive and predictive maintenance technologies
- Implement and lead NEW Water's risk based asset management program to ensure cost-effective reinvestment planning decisions are developed and aligned with organizational goals
- Work closely with the Department Leaders, Technicians, the Planner/Scheduler, and NEW Water and equipment engineers to address reoccurring equipment issues and address them in a timely manner
- Develop and maintain metrics for tracking and reporting
- In coordination with other team members ensure maintenance resources are utilized effectively in order to execute asset strategies to drive equipment reliability
- Complete the annual fixed asset inventory with the assistance of other departments
- Lead efforts in Root Cause Failure Analysis, Failure Mode and Effects Analysis, and Reliability Centered Maintenance efforts
- Identify high maintenance costs assets and determine solutions for these assets to reduce costs and improve reliability and availability

- Perform end of life analysis on key assets using service level, physical, and economic life to systematically determine reinvestment triggers
- Assist in the recommendation and planning of the annual budget
- Track asset availability to ensure maximum uptime
- Enhance current preventive and predictive maintenance program and develop new opportunities for future programs
- Oversee NEW Water's asset management program, which includes the implementation, tracking, and monitoring of all assets
- Prepare reports and perform analysis to proactively identify asset end of life
- Review and update current policies
- Implement training and development programs as needed

With more than sixty buildings associated with two treatment plants and the collection system, there are almost 6,900 assets to maintain; many of which are critical to meeting WPDES permit requirements. Upon completion of the R2E2 Project, the assets will total around 15,400. The ability to reliably operate critical assets supports the need for the Asset Reliability Coordinator position.

Many of the responsibilities associated with this proposed position are currently being completed by the Maintenance Manager, Department Team Leaders, the Planner/Scheduler, and Maintenance Technicians on a priority and workload dependent basis. There are a number of the position responsibilities that are not being completed because of workload and competing priorities. The approval of this position would ensure that all these responsibilities are continually being reviewed, tracked, updated, and completed. This position would meet present and future workload demands.

If approved, NEW Water would advertise this position in the fourth quarter of 2015, schedule interviews in late February, and select an individual to start employment with NEW Water by the beginning of April 2016.

Recommendation

Maintenance support of the facilities and equipment used to service NEW Water customers is critical. This position would focus on tracking service levels, physical life, economic life, and risk to guide NEW Water in future asset investments. The addition of this position to NEW Water would ensure that internal and external service levels are maintained.

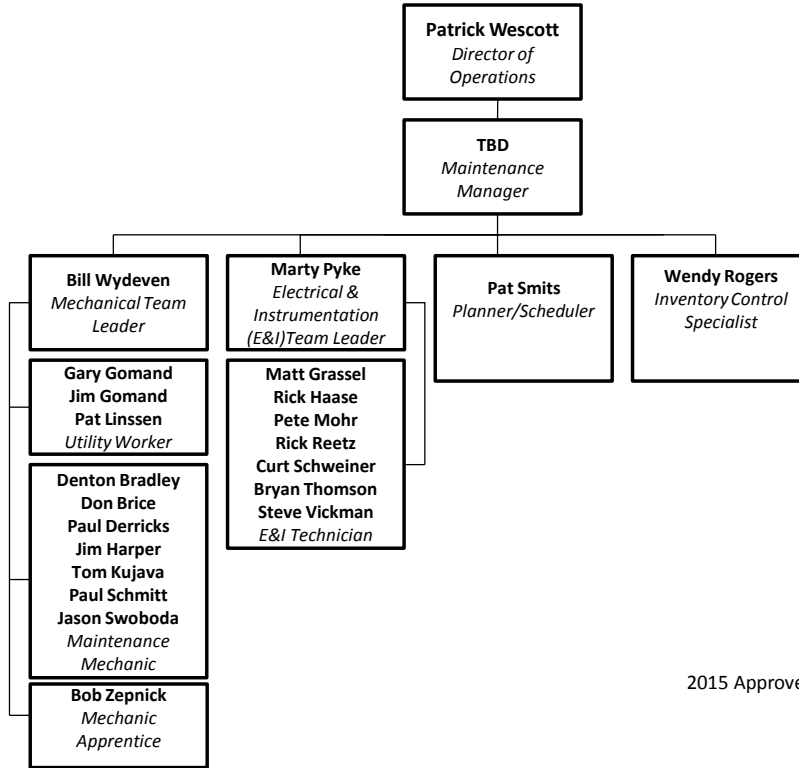
Commission Action

Request Commission approval for the addition of the Asset Reliability Coordinator position to the Maintenance Department and the associated revision to the organizational chart pending approval of the 2016 Budget.

Attachment: Maintenance Department Organizational Chart

Operations – Maintenance

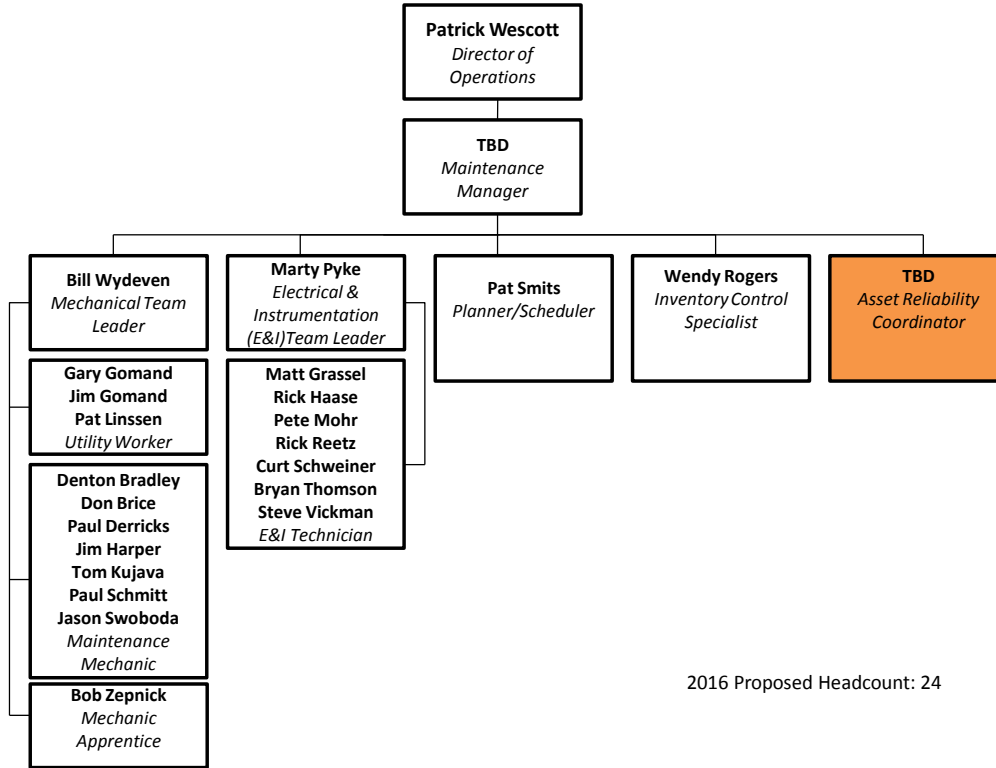
September 2015



2015 Approved Headcount: 23

9/11/2015

Draft Operations – Maintenance April 2016



2016 Proposed Headcount: 24

Memorandum

TO: Commission
Tom Sigmund

FROM: Lisa Sarau

DATE: September 17, 2015

SUBJECT: MCC-B1/B1A Replacement Contract 14-033-CO – Contract Close Out and Final Payment

Background

On October 22, 2014, the Commission awarded the MCC-B1/B1A Replacement Contract 14-033-CO to Van Ert Electric Co., Inc. in the amount of \$408,320 with a 10% contingency of \$40,832 for a total contract amount of \$449,152. The work performed under this project included:

- Replacement of MCC-B1/B1A in the West Mechanical Building

Van Ert Electric Co., Inc. has completed the work in accordance with the contract documents and is ready for close out and final payment. Project costs are summarized below:

Original Contract Amount:	\$408,320.00
Contract Amendments:	<u>\$ 19,365.04</u>
Total Contracted Amount:	\$427,685.04

The Total Contracted Amount shown above does not exceed the total dollar value approved for the project.

Recommendation

Staff recommends Commission approval to close out the MCC-B1/B1A Replacement Contract 14-033-CO and issue final payment to Van Ert Electric Co., Inc. in the amount of \$21,431.25.

Commission Action

Request Commission approval to close out the MCC-B1/B1A Replacement Contract 14-033-CO and issue final payment of \$21,431.25 to Van Ert Electric Co., Inc.

Attachment: Final Monthly Construction Progress Report

Monthly Construction Progress Report

Project Name: MCC-B1/B1A Replacement Contract
 Project Number: 14-033-CO
 Report Number: 4 - Final
 Reporting Period: 3/13/2015 to 9/17/2015
 Project Manager: Lisa Sarau

Contractor: Van Ert Electric Company, Inc.			
Contract Cost		Contract Time	
	<u>Amount</u>		<u>Date</u>
Original Contract Sum:	\$ 408,320.00	Original Substantial Completion:	4/6/2015
Net Change by Change Orders:	\$ 19,365.04	Original Contract Completion:	5/6/2015
Contract Sum to Date:	\$ 427,685.04	Revised Substantial Completion:	8/11/2015
Total Complete and Stored to Date:	\$427,685.04	Revised Final Completion:	9/22/2015
Retainage:	\$0.00		
Total Earned Less Retainage:	\$427,685.04	Contract Milestones	
Previous Payments:	\$ 406,300.79	Do milestones apply?	Yes
Balance to Final Completion:	\$21,384.25	If yes, list: All components of the disinfection system must have uninterrupted power by April 15, 2015.	

Contract Contingency

Authorized Amount: \$ 40,832 Amount Used: \$ 19,365.04

Work Progress

Contract Budget Spent: 100% Contract Work Completed: 100%

Work Accomplished During Reporting Period

Van Ert has completed the project and punchlist items. Final payment documentation, operation and maintenance manuals, and record drawings have been received.

Work Scheduled for Next Reporting Period

Construction close out documentation will be finalized and payment will be issued to the contractor upon Commission approval.

Outstanding Issues

None

Issues Resolved

None

Memorandum

TO: Commission
Tom Sigmund

FROM: William Angoli

DATE: September 18, 2015

SUBJECT: Resource Recovery and Electrical Energy (R2E2) Project – Contract 34 Digestion and Solids Facility – Change Order No. 1

Background

On June 24, 2015, the Commission approved award of the R2E2 Contract 34 Digestion and Solids Facility project to CD Smith Construction Inc. for a contract amount of \$130,900,000. With R2E2 Project costs significantly higher than estimated, staff, the engineer, and contractor have been working to identify areas within the project where cost saving measures could be taken. Additional deductive items not reflected in this Change Order No. 1 are expected to be brought to a future Commission meeting.

The specification section for the thickening centrifuge included spare parts for the centrifuge control system that were additionally specified in specification sections 40 90 01, 40 91 01, 40 91 02 and 40 91 03. Spare parts requirements in these specification sections are not applicable to the centrifuge specification section. The reduction in cost for the additional spare parts is \$20,900. In addition, the specification section for centrifuge thickening required the equipment to be made using 304 stainless steel. The price quote received from the manufacturer was for 316 stainless steel. The cost savings for changing from 316 to 304 stainless steel is \$26,000. The bid quote from the vendor did not align with the pre-bid quote received from the manufacturer. After discussions with the manufacturer and vendor, the price quote in the bid was reduced by \$50,000 to align with the pre-bid quote.

Cost savings for the thickening centrifuge reduction in spare parts, changing to 304 stainless steel, and price adjustment to the pre-bid quote price is \$96,900.

The specification section for odor control system included spare parts for the odor control system that were additionally specified in specification sections 40 90 01, 40 91 01, 40 91 02 and 40 91 03. Spare parts requirements in these specification sections are not applicable to the odor control specification section. The reduction in cost for the additional spare parts is \$197,164. The bid quote from the manufacturer for the odor control system did not align with the pre-bid quote received from the manufacturer. After discussions with the manufacturer, the price quote in the bid was reduced by \$114,900 to align with the pre-bid quote.

Cost savings for reduction in the odor control system spare parts and manufacturer's quote is \$312,064.

With additional savings of \$11,141 for contractor's markups, the total cost savings for the thickening centrifuge and odor control system changes is \$420,105.

Various other vendor equipment packages within the specifications require spare parts to be provided from specification sections 40 90 01, 40 91 01, 40 91 02 and 40 91 03. Instrumentation and control spare parts listed in the vendor specification sections overlap with the spare parts required in other sections listed; therefore, are not required. These spare parts were deleted from the vendor's equipment packages producing cost savings of \$203,140.

With additional savings of \$4,311 for contractor's markups, the total cost savings for the reduction in instrumentation and control spare parts is \$207,451.

Total cost savings for the thickening centrifuge, odor control system and vendor packages including contractor's markups is \$627,556. Staff and the engineer have reviewed these cost reductions and find them appropriate, and do not negatively impact the project.

Description	Cost Reduction	Contractor's Markup Reduction	Total Reduction
Centrifuge Spare Parts	\$20,900		\$20,900
Centrifuge Stainless Steel	\$26,000		\$26,000
Centrifuge Price Adjustment	\$50,000		\$50,000
Odor Control Spare Parts	\$197,164		\$197,164
Odor Control Price Adjustment	\$114,900		\$114,900
Subcontractor Markup		\$4,090	\$4,090
General Contractor Markup		\$7,051	\$7,051
Sub-Total	\$408,964	\$11,141	\$420,105
Spare Parts	\$203,140		\$203,140
Subcontractor Markup		\$829	\$829
General Contractor Markup		\$3,482	\$3,482
Sub-Total	\$203,140	\$4,311	\$207,451
Total			\$627,556

Recommendation

Staff recommends Commission approval of Contract 34 Digestion and Solids Facility – Change Order No. 1 for a net credit of (\$627,556) to the contract.

Commission Action

Request Commission approval of Contract 34 Digestion and Solids Facility – Change Order No. 1 for a net credit of (\$627,556) to the contract.

Attachment

cc: Nathan Qualls

Memorandum

TO: Commission
Tom Sigmund

FROM: William Angoli

DATE: September 15, 2015

SUBJECT: Sewer Plan Approval

Background

The Town of Lawrence has submitted a request for approval of sanitary sewer plans. A location map for the request is attached. The request includes the following:

- Town of Lawrence project no. L0017-950424, GBMSD request No. 2015-09 includes 780 feet of 8-inch PVC sewer on Andromeda Drive. Flow will be tributary to GBMSD's Ninth Street Interceptor.

Recommendation

Staff recommends Commission approval of the Town of Lawrence plan for the proposed sewer to serve lands located within NEW Water. This approval is subject to favorable approval recommendation from Brown County Planning and final approval by the Wisconsin Department of Natural Resources.

Commission Action

Request Commission approval of the Town of Lawrence sewer plan.

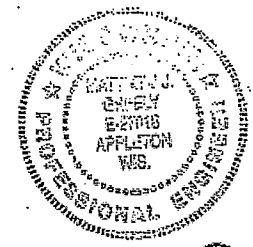
Attachment

cc: N. Qualls
File

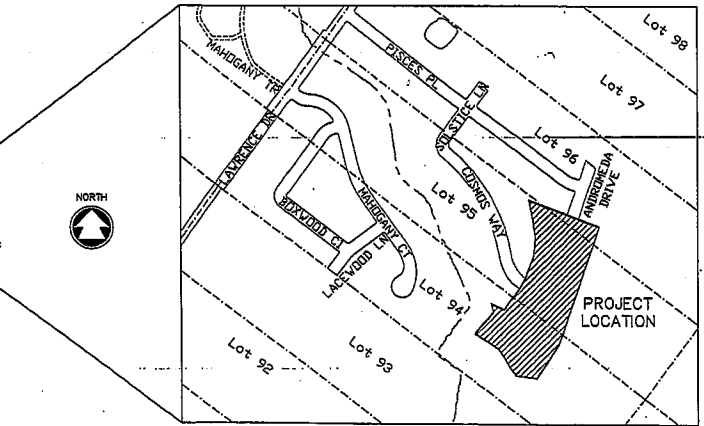
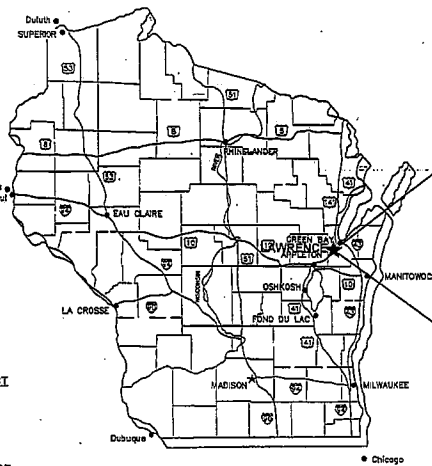
ORION'S RUN SECOND ADDITION SEWER, WATER & STREET CONSTRUCTION TOWN OF LAWRENCE

G. B. M. S. D. PLAN APPROVAL
 REQUEST NO. G.B.M.S.D. # 2015-09
 PROJECT NO. Town of Lawrence # L0017-950424
 EXAMINED BY G. AMENSON DATE 9-9-15
 APPROVED BY G.B.M.S.D. COMMISSION
 MOTION NO. _____ DATE _____

BROWN COUNTY, WISCONSIN
 MCM # L0017-950424



Matthew J. Greely
 8-27-15



CONTACT INFORMATION

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 GREEN BAY, WI 54307-9001
 WISCONSIN PUBLIC SERVICE (WFS)
 JERRY FEOT (GAS)
 2350 S ASHLAND AVENUE
 GREEN BAY, WI 54304
 TIME WARNER CABLE
 VANDE ALEN (CABLE)
 3320 DESTINATION DRIVE
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DIGGERS HOTLINE
 Dial 811 or (800) 242-8511
 www.DiggersHotline.com



SHEET INDEX

- 1 ABBREVIATIONS, SYMBOLS & NOTES
- 2 SURVEY CONTROL
- 3 DRAINAGE AND EROSION CONTROL PLAN
- 4-5 ANDROMEDA DRIVE
- 6 COSMOS WAY
- 7-10 MISCELLANEOUS DETAILS

DATE
 09-12-15
 PROJECT NO.
 L0017-950424

Wis. State Arch. Div. 6/21/2015 2:38 PM, State Arch. Div. 6/21/2015 2:38 PM

Memorandum

TO: Commission
Tom Sigmund

FROM: Erin Wilcox

DATE: September 11, 2015

SUBJECT: 2015 Whole Effluent Toxicity testing; Process and Results

Summary

NEW Water's WPDES Permit requires Whole Effluent Toxicity Testing (WET Testing) be done at both De Pere and Green Bay facilities each year of the permit. In the permit it designates which quarter of the year the WET Testing is done. This year the Green Bay Facility was sampled on July 26 through July 31, and the De Pere Facility on August 2 through August 7 because the designated permit quarter was July – September 2015. The sampling consists of three 24-hour composite samples taken from the final effluent at each facility. These samples are sent via courier to a state designated laboratory, Environmental Consulting and Testing Inc., where the organisms are exposed to a range of NEW Water's effluent dilutions. Two tests, acute and chronic, are run; acute testing simply measures the survival of the organisms at all effluent exposure concentrations, and chronic testing measures the fathead minnows for growth by weight and survival while it looks at reproduction numbers and survival of the zooplankton. These two organisms are sensitive to different potential toxins so the affects to one over another may point to specific problems with NEW Water's effluent. Both facilities passed with great results again this year. The final report has been sent to Madison for review and staff will be looking to sample again during the quarter of April - June 2016.

Details

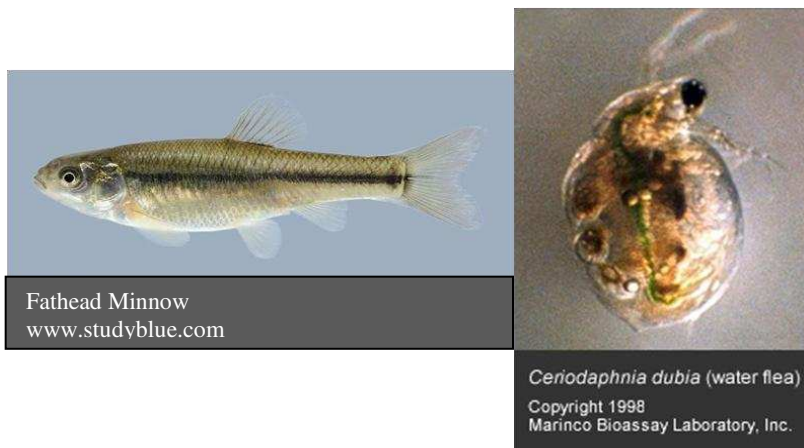
To collect the test samples staff uses the composite samplers, already set up at both facilities. Working with the Treatment staff, these samplers are adjusted to sample more frequently. This provides the total sample volume (five gallons) needed by both the lab and the WET testing lab, over a 24-hour period (Figure 1). These samplers run with this adjusted setting for the entire week of testing even though only three composite samples are sent to the testing company (Monday, Wednesday, Friday). This requires good communication and coordination with Treatment and Lab staff, both ahead of time and during the collection week.



Figure 1. Cory Evers and Matt Pamperin checking to make sure that the refrigerators at the Green Bay Facility are staying at the correct temperature to store the composite sample currently being collected.

The composite samples are collected and shipped to a certified lab for analysis. Acute tests look at survivability of the two test organisms in various concentrations of NEW Water effluent. Fathead minnows (small fish) and *Ceriodaphnia dubia* (zooplankton species) are placed into controls and a suite of NEW Water's effluent to see how many of the original organisms survive for a set amount of time (Figure 2). Chronic tests look at: Fathead minnow growth and biomass (organism weight), *Ceriodaphnia dubia* reproduction, and overall survival across another suite of effluent concentrations over a specific time period.

Acute: 100, 50, 25, 12.5, 6.25% effluent, plus controls **Chronic:** 100, 30, 10, 3, 1% effluent, plus controls



Fathead Minnow
www.studyblue.com

Ceriodaphnia dubia (water flea)
Copyright 1998
Marinco Bioassay Laboratory, Inc.

Figure 2. Fathead minnows and *Ceriodaphnia dubia* are the two main organisms used in WET testing.

Results:

Green Bay Facility: Passed, great overall test results

- Acute tests showed 99.3% survival in Fathead minnows, 100% survival in *Ceriodaphnia dubia* across all controls and effluent dilution concentrations.
- Chronic tests showed good fish growth and *Ceriodaphnia dubia* reproduction as well as 100% survival in all controls and effluent dilution concentrations.

De Pere Facility: Passed, great overall test results

- Acute tests showed 100% survival for both Fathead minnows and *Ceriodaphnia dubia* across all controls and effluent dilution concentrations.
- Chronic tests showed good fish growth and *Ceriodaphnia dubia* reproduction as well as 100% survival in all controls and effluent dilution concentrations.

Monthly Construction Progress Report

Project Name: Contract 34 Digestion and Solids Facility
 Project Number: 08-503-CO2
 Report Number: 2
 Reporting Period: August 14 through September 18, 2015
 Project Manager: William Angoli

Contractor: J.F. Ahern, Co.		
Contract Cost (As of Last Approved Pay Request)	Contract Time	
	<u>Amount</u>	<u>Date</u>
A. Original Contract Sum:	<u>\$130,900,000</u>	Original Substantial Completion: <u>4/14/2018</u>
B. Net Change by Change Orders:	<u>\$0</u>	Original Contract Completion: <u>8/12/2018</u>
C. Contract Sum to Date (A+B):	<u>\$130,900,000</u>	Revised Substantial Completion: <u>NA</u>
D. Total Complete and Stored to Date:	<u>\$0</u>	Revised Final Completion: <u>NA</u>
E. Retainage:	<u>\$0</u>	Actual Substantial Completion:
F. Total Earned Less Retainage (D-E):	<u>\$0</u>	Actual Final Completion:
G. Previous Payments:	<u>\$0</u>	
H. Balance to Final Completion (C-G):	<u>\$130,900,000</u>	
Contract Milestones		
Do milestones apply?		
Yes		

If yes, list:		
	Number of days from NTP	Date
Notice To Proceed Date		Jul 20 15
Milestone No. 1 Stormwater Pond and Water Main Backflow Prevention System	120	Nov 16 15
Milestone No. 2 Septage Receiving at HSW Site	180	Jan 15 16
Milestone No. 3 Septage Receiving Facility	450	Oct 11 16
Milestone No. 4 Solids Facility	910	Jan 14 18
Milestone No. 5 Digestion and Bio Gas System	970	Mar 15 18
Milestone No. 6 Nutrient Recovery System	1000	Apr 14 18

Contract Contingency

Authorized Amount: \$3,027,000 Amount Used: \$0

Work Progress

Contract Budget Spent (G/C): 0% Contract Work Completed: 0%

Work Accomplished During Reporting Period

- Contractor completed installation of field trailers for engineer, subcontractors, and the contractor
- Started electrical demolition in the thickening building
- Marked piping and equipment in thickening building and decant/equalization basin area to be removed
- Started excavation of material for storm water retention pond
- Started work on new storm water piping to storm water retention pond
- Continued shop drawing review

Work Scheduled for Next Reporting Period

- Continue work on excavating material for storm water retention pond
- Finish demolition of electrical equipment, wiring, and conduit in thickening building
- Start demolition of equipment in thickening building
- Start excavation of material for new solids and digester buildings
- Start work on placement of manholes and backflow preventers on 12-inch plant fire loop
- Continue shop drawing reviews
- Continue work on storm water piping to retention pond
- Remove precast panels on thickening building for new door locations to high strength waste room

Outstanding Issues

Staff, engineer and contractor will continue working together on final items for removal from the contract to reduce overall project costs. Work is progressing to potentially have this change order ready for the October Commission meeting.

Issues Resolved

None.



Solids Facility excavation looking east. Electrical duct bank running down middle of excavation to be removed later.



Stormwater detention pond excavation looking south.



Stormwater piping looking west to detention pond.



Excavated material stockpile for reuse on Contract 34 Digestion and Solids Facility and Contract 35 Demolition of existing solids building and site work.

Memorandum

TO: Commission
Tom Sigmund

FROM: Philip Mentink

DATE: September 22, 2015

SUBJECT: Green Bay Facility (GBF) Pump Station Secondary Feeder Replacement Project

Background

On Friday, August 21, 2015, one of the existing original secondary power feeder cables that provides electrical power to the pump station failed. In order to ensure the pump station remained operational, NEW Water staff took emergency action to procure a temporary standby generator to provide a redundant source of electrical power to the pump station. The rental cost for this emergency generator was \$12,500/week, plus any operating costs if operation of the generator would have been required. In order to expedite the restoration of the second (redundant) source of electrical power to the pump station and allow return of the rental generator, the Commission approved on September 11, 2015 for NEW Water to contract with an electrical contractor, Northern Electric, Inc. (NEI), to furnish and install a new secondary feeder power cables in a direct-buried electrical conduit from the existing transformer building to the pump station.

NEW Water has submitted claims for coverage from its property insurer, Local Government Property Insurance Fund through its Administrator AIC, and the machinery insurer, Liberty Mutual. Claim investigation continues.

Work Completed

Immediately following Commission approval and receiving authorization to proceed, NEI procured materials, mobilized, and started installation of the replacement feeder. The replacement feeder installation and testing was completed on Saturday, September 16, 2015.

After successful testing of the new secondary feeder cable, NEW Water staff configured the power distribution system to utilize the new feeder to provide a portion of the electrical power to the pump station. The pump station continues to utilize the new secondary feeder as a partial source of electrical power.

Although the time required to complete the work was initially estimated at three weeks, the contractor expedited the project by scheduling longer working days, including working on the weekend, at no additional cost to NEW Water. As a result, the replacement feeder installation and testing was completed within one week on Saturday, September 16, 2015, allowing NEW Water to make arrangements to end the rental of the emergency generator.

The lump sum project cost was \$44,000. At this time, it is not anticipated that any of the approved 20% contingency is required. The generator rental charges are expected to total approximately \$43,600.

cc: Nathan Qualls

Memorandum

TO: Commission
Tom Sigmund

FROM: Patrick Wescott

DATE: September 18, 2015

SUBJECT: August Effluent Quality & Air Quality Summary Reports

CC: Bruce Bartel – Treatment

Effluent Quality

Both facilities were in full compliance with all effluent limits for the month of August. The De Pere Facility tied performance records for Ammonia for average daily concentration and average pounds discharged per day.

The Green Bay Facility set a new performance record for C-BOD for average daily concentration. New performance records were set for Ammonia for average daily concentration, average pounds discharged per day, and for total monthly pounds discharged.

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

Air Quality

The Green Bay Facility was in compliance with all air quality limits for the month of August and did not have any events which would have resulted in a “Deviation Notification” submittal to the Wisconsin Department of Natural Resources. Attached is a graph showing a rolling 12-month average incinerator operating time and emergency bypass damper opening.

Attachments

EFFLUENT QUALITY - CURRENT YEAR 2015 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	780.376	25.17	9.0	1,895	58,744	10.6	2,218	68,760	5.8	1,217	37,736	0.52	108	3,353	2.41	505	15,661	4.23	889	27,553
FEB	633.691	22.63	11.3	2,132	59,700	16.2	3,066	85,842	7.1	1,338	37,474	0.38	72	2,014	5.31	1,002	28,058	7.16	1,351	37,821
MAR	749.099	24.16	7.8	1,569	48,647	8.7	1,748	54,195	3.9	776	24,062	0.42	85	2,636	0.14	28	868	1.82	367	11,384
APR	925.763	30.86	6.9	1,767	52,998	8.3	2,136	64,084	3.1	791	23,726	0.36	92	2,761	0.38	99	2,958	1.81	465	13,961
MAY	870.700	28.09	5.7	1,326	41,119	7.5	1,762	54,622	3.0	697	21,617	0.26	61	1,892	1.42	332	10,278	2.70	633	19,621
JUN	1,042.451	34.75	5.4	1,551	46,525	5.8	1,691	50,732	2.6	757	22,715	0.43	124	3,724	0.15	44	1,309	1.42	411	12,322
JUL	883.830	28.51	5.2	1,243	38,535	4.8	1,152	35,719	2.2	531	16,446	0.46	110	3,395	0.01	2	69	1.34	319	9,881
AUG	910.779	29.38	4.8	1,182	36,631	4.3	1,042	32,298	1.6	401	12,426	0.46	113	3,491	0.00	0	8	1.25	306	9,294
SEP																				
OCT																				
NOV																				
DEC																				
Average	849.586	27.94	7.0	1,583	47,862	8.3	1,852	55,782	3.7	814	24,525	0.41	96	2,908	1.23	252	7,401	2.72	593	17,730
Total	6,796.689				382,899			446,252			196,202			23,266			59,209			141,837
All time record best(s) ->			2.0	425	13,187	2.0	336	10,267	1.6	329	9,223	0.11	27	803	0.00	0	8	1.01	225	6,986

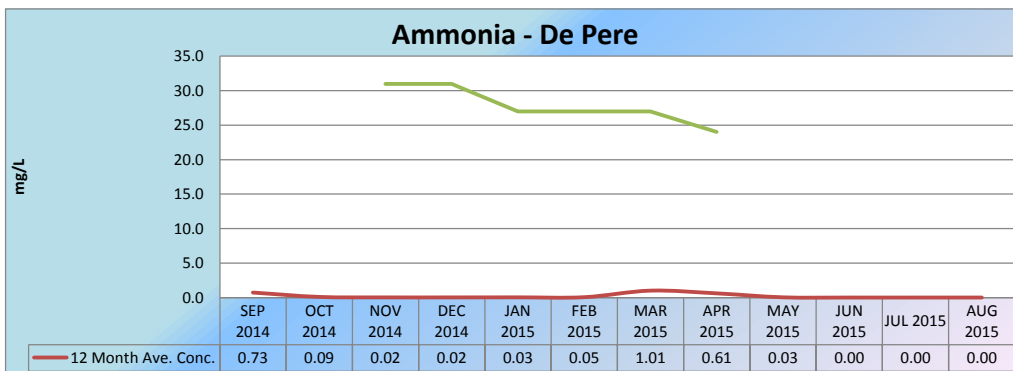
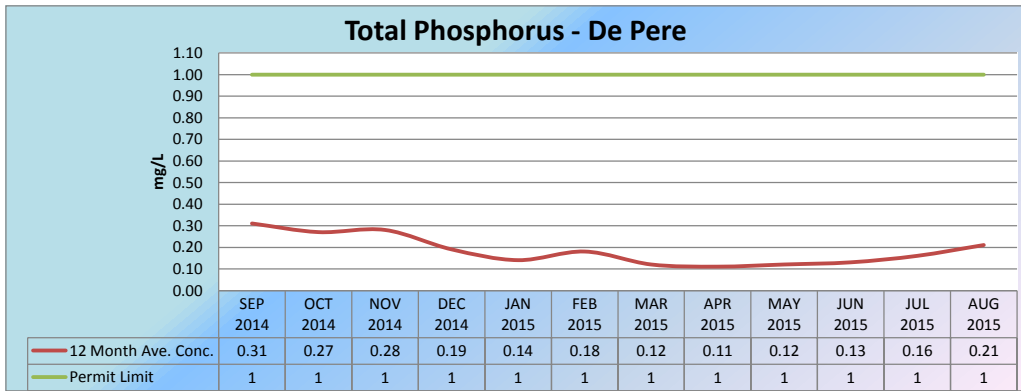
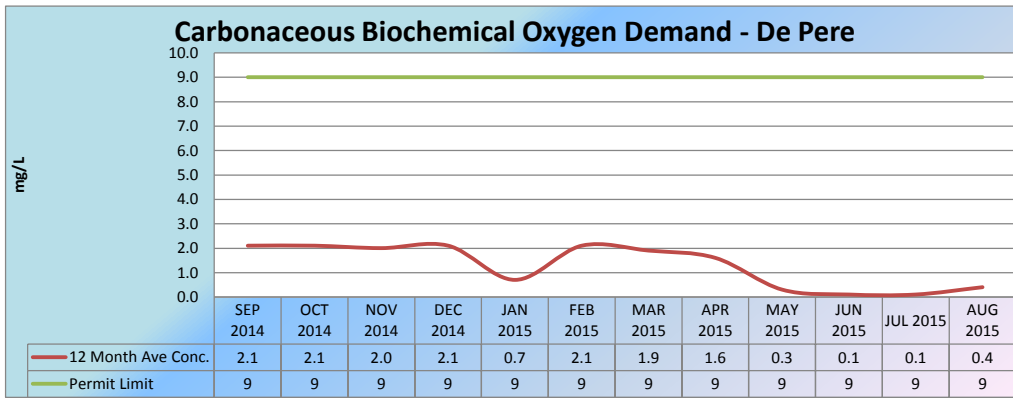
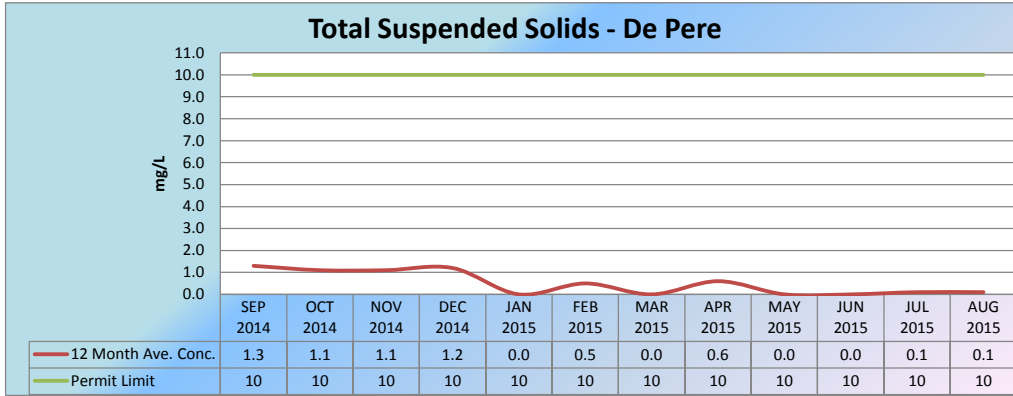
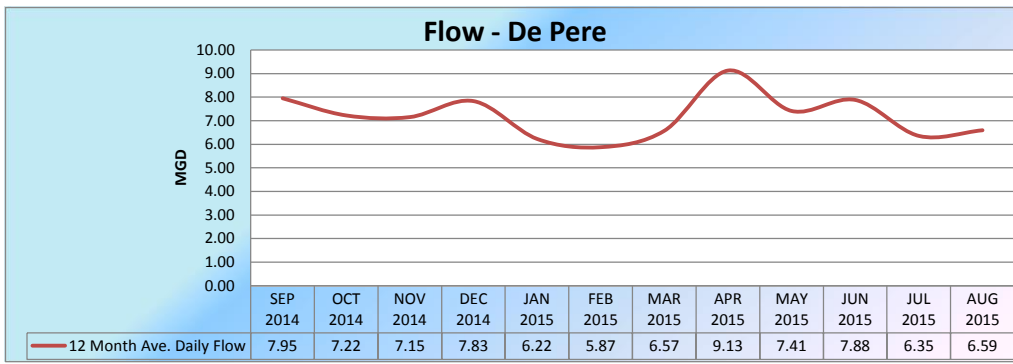
The effluent quality was in compliance with all of the above permit parameters for August 2015.

EFFLUENT QUALITY - CURRENT YEAR 2014 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	733.985	23.68	8.7	1,722	53,378	6.2	1,223	37,906	3.5	697	21,617	0.29	57	1,768	0.10	19	601	1.76	347	10,758
FEB	692.546	24.73	10.3	2,126	59,540	6.8	1,411	39,514	3.6	744	20,825	0.39	79	2,225	0.09	19	524	1.92	398	11,135
MAR	1,004.587	32.41	8.5	2,193	67,984	6.9	1,846	57,224	3.8	1,010	31,303	0.41	96	2,988	0.18	58	1,786	1.72	460	14,256
APR	1,290.321	43.01	7.1	2,558	76,753	6.5	2,332	69,969	4.1	1,481	44,440	0.25	88	2,651	0.26	97	2,905	1.60	577	17,307
MAY	1,216.509	39.24	6.9	2,254	69,867	6.0	1,949	60,417	3.4	1,119	34,685	0.32	105	3,249	0.10	32	1,001	1.42	464	14,374
JUN	1,124.868	37.50	9.0	2,775	83,252	6.1	1,911	57,315	3.8	1,189	35,682	0.49	148	4,441	0.13	39	1,175	1.43	444	13,316
JUL	949.704	30.64	5.3	1,358	42,107	4.5	1,161	35,984	2.8	719	22,275	0.62	159	4,944	0.13	33	1,030	1.19	304	9,412
AUG	924.206	29.81	4.1	1,015	31,470	3.7	929	28,802	2.1	528	16,379	0.19	48	1,498	0.15	39	1,211	1.13	282	8,744
SEP	973.155	32.44	4.9	1,318	39,550	4.3	1,165	34,946	2.4	648	19,440	0.33	88	2,634	0.12	33	983	1.16	311	9,320
OCT	972.244	31.36	5.9	1,539	47,700	4.6	1,213	37,590	2.4	635	19,691	0.47	119	3,690	0.08	23	702	1.24	325	10,077
NOV	860.091	28.67	6.3	1,501	45,028	5.0	1,189	35,656	2.7	639	19,157	0.58	135	4,050	0.03	7	195	1.31	312	9,366
DEC	1,002.525	32.34	7.0	1,876	58,144	6.4	1,746	54,122	3.5	962	29,830	0.55	147	4,571	0.13	38	1,189	1.50	410	12,715
Average	978.728	32.15	7.0	1,853	56,231	5.6	1,506	45,787	3.2	864	26,277	0.41	106	3,226	0.13	36	1,109	1.45	386	11,732
Total	11,744.741				674,773			549,445			315,324			38,709			13,302			140,780
All time record best(s) ->			2.0	425	13,187	2.0	336	10,267	2.0	329	9,223	0.11	27	803	0.02	4	128	1.01	225	6,986

EFFLUENT QUALITY - CURRENT YEAR 2015 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	192.676	6.22	0.0	2	54	1.5	77	2,394	0.7	34	1,053	0.14	7	228	0.03	2	50	1.29	67	2,067
FEB	164.420	5.87	0.5	26	724	3.0	146	4,092	2.1	101	2,816	0.18	9	252	0.05	2	64	1.41	69	1,934
MAR	203.689	6.57	0.0	0	0	3.3	179	5,556	1.9	104	3,215	0.12	7	204	1.01	56	1,722	2.31	126	3,919
APR	273.860	9.13	0.6	49	1,466	3.0	230	6,907	1.6	122	3,660	0.11	9	260	0.61	46	1,385	1.77	135	4,041
MAY	229.741	7.41	0.0	0	0	1.2	72	2,224	0.3	18	564	0.12	7	231	0.03	2	56	1.25	77	2,395
JUN	236.423	7.88	0.0	0	0	0.2	11	321	0.1	4	124	0.13	9	261	0.00	0	0	0.98	64	1,934
JUL	196.930	6.35	0.1	7	223	0.7	39	1,197	0.1	4	120	0.16	9	268	0.00	0	7	1.37	73	2,254
AUG	204.308	6.59	0.1	5	142	0.5	30	926	0.4	21	662	0.21	12	358	0.00	0	5	1.22	67	2,086
SEP																				
OCT																				
NOV																				
DEC																				
Average	212.756	7.00	0.2	11	326	1.7	98	2,952	0.9	51	1,527	0.15	9	258	0.22	14	411	1.45	85	2,579
Total	1,702.047				2,609			23,617			12,214			2,062			3,289			20,630
All time record best(s) ->			0.0	0	0	0.2	11	321	0.1	4	120	0.05	3	83	0.00	0	0	0.96	56	1,739

The effluent quality was in compliance with all of the above permit parameters for August 2015.

EFFLUENT QUALITY - CURRENT YEAR 2014 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	197.409	6.37	1.0	56	1,721	2.3	124	3,848	2.1	114	3,519	0.20	10	325	0.15	8	235	1.36	73	2,250
FEB	184.987	6.61	3.6	203	5,682	3.8	210	5,887	2.7	150	4,195	0.21	12	332	0.23	13	351	1.89	105	2,941
MAR	204.345	6.59	4.8	272	8,430	4.0	222	6,886	2.9	162	5,035	0.25	14	446	0.45	26	801	1.86	104	3,219
APR	206.825	6.89	1.3	78	2,342	2.3	142	4,249	2.1	120	3,588	0.16	10	292	0.27	21	618	1.26	76	2,283
MAY	213.248	6.88	1.0	60	1,852	2.0	115	3,557	2.0	115	3,578	0.16	9	294	0.12	7	212	1.20	67	2,079
JUN	211.125	7.04	1.0	60	1,804	2.0	118	3,530	2.0	117	3,522	0.29	16	484	0.14	9	273	1.17	67	2,007
JUL	162.849	5.25	2.1	94	2,925	4.3	196	6,076	3.2	145	4,491	0.66	30	915	3.86	187	5,802	5.49	259	8,017
AUG	207.500	6.69	1.3	71	2,204	3.3	179	5,537	2.3	129	3,986	0.33	18	573	1.53	77	2,375	2.77	145	4,480
SEP	238.643	7.95	1.3	87	2,622	3.0	206	6,188	2.1	144	4,331	0.31	20	614	0.73	55	1,638	1.81	126	3,788
OCT	223.683	7.22	1.1	64	1,970	2.1	124	3,849	2.1	126	3,912	0.27	16	483	0.09	6	171	1.04	62	1,921
NOV	214.390	7.15	1.1	63	1,898	2.2	129	3,860	2.0	120	3,590	0.28	16	493	0.02	1	42	1.16	69	2,076
DEC	242.675	7.83	1.2	81	2,523	2.2	145	4,504	2.1	134	4,158	0.19	12	384	0.02	2	48	1.07	69	2,150
Average	208.973	6.87	1.7	99	2,998	2.8	159	4,831	2.3	131	3,992	0.28	15	470	0.63	34	1,047	1.84	102	3,101
Total	2,507.679				35,973			57,971			47,905			5,635			12,566			37,211
All time record best(s) ->			1.0	40	1,203	2.0	85	2,545	2.0	79	2,370	0.05	3	83	0.02	1	41	0.96	56	1,739



INCINERATOR EMISSIONS REPORT - CURRENT YEAR 2015

NEW Water (GBMSD) - GREEN BAY FACILITY

(Preliminary Results)

Incinerator #1 - System Operating Parameters Assessment															
	Incinerator Parameters										CEMS Parameters			Scrubber Parameters	
	Monthly Run Time (%)	Maximum Wet Lbs / Hr Sludge	Maximum Dry Tons / Hr Sludge	Evaporation Lbs / Hr Water			Maximum Hearth Temp. (°F)	Average Secondary Temp. (°F)	Average Oxygen %	Average Opacity %	Corrected Average THC (ppm)	Data Capture %	Monthly Hours on Line	Total Scrubber Δ P " WC	Pre- Cooler Temperature (°F)
				Maximum	Days Above Maximum	Average									
Control Point	NA	(1)	(2)	≤ 8,800 (3)	NA	≤ 8,800 (2)	1936 (2)	≥ 950 (4)	≤ 8.45 (5)	< 20 (6)	< 100 (7)	> 90 (8)	NA	> 13.71 (5)	< 200
January	60%	10,671	1.023	8,561	0	8,117	1,662	1,074	6.03	4.77	4.70	98.2%	445	19.72	160
February	96%	10,983	1.087	8,548	0	8,012	1,697	1,109	6.75	4.04	3.20	96.7%	642	20.58	158
March	66%	11,132	1.097	8,507	0	7,867	1,667	1,074	6.83	4.57	7.30	94.8%	494	20.30	157
April	89%	11,003	1.134	8,502	0	8,346	1,631	1,128	5.60	4.76	6.10	99.2%	640	20.14	163
May	74%	11,092	1.092	7,925	0	8,274	1,591	1,087	6.29	5.90	4.40	98.2%	551	19.73	165
June	51%	10,709	1.062	8,527	0	6,887	1,657	1,042	7.03	7.94	8.60	99.4%	365	21.11	153
July	89%	10,900	1.149	8,401	0	8,222	1,632	1,061	6.05	3.18	6.80	97.6%	661	19.77	166
August	70%	10,980	1.093	8,442	0	7,873	1,611	1,061	6.35	3.27	7.80	96.9%	519	19.69	163
September															
October															
November															
December															
Annual Average											97.6%				

Incinerator #2 System Operating Parameters Assessment															
	Incinerator Parameters										CEMS Parameters			Scrubber Parameters	
	Monthly Run Time (%)	Maximum Wet Lbs / Hr Sludge	Maximum Dry Tons / Hr Sludge	Evaporation Lbs / Hr Water			Maximum Hearth Temp. (°F)	Average Secondary Temp. (°F)	Average Oxygen %	Average Opacity %	Corrected Average THC (ppm)	Data Capture %	Monthly Hours on Line	Total Scrubber Δ P " WC	Pre- Cooler Temperature (°F)
				Maximum	Days Above Maximum	Average									
Control Point	NA	(1)	(2)	≤ 8,800 (3)	NA	≤ 8,800 (2)	1862 (2)	≥ 950 (4)	≤ 8.16 (5)	< 20 (6)	< 100 (7)	> 90 (8)	NA	> 13.87 (5)	< 200
January	84%	10,903	1.048	8,636	0	8,095	1,573	1,143	5.26	3.55	3.70	42.9%	624	20.42	166
February	48%	11,064	1.073	6,137	0	7,488	1,628	1,083	6.37	4.22	3.70	87.7%	323	20.23	159
March	99%	11,175	1.212	8,567	0	8,336	1,610	1,075	5.70	5.71	3.80	99.7%	734	21.05	166
April	69%	11,176	1.146	8,637	0	7,927	1,592	1,078	5.73	6.79	3.90	92.4%	496	21.80	163
May	79%	11,249	1.142	8,351	0	7,982	1,534	1,071	5.76	7.62	2.60	88.5%	587	21.32	163
June	100%	11,454	1.231	8,616	0	8,455	1,601	1,069	5.45	4.63	3.50	98.2%	720	20.48	170
July	51%	10,795	1.160	8,582	0	6,895	1,560	1,058	5.57	4.05	7.00	97.7%	381	20.55	159
August	65%	10,941	1.089	8,641	0	8,116	1,579	1,058	6.04	3.56	6.10	97.5%	485	21.01	170
September															
October															
November															
December															
Annual Average											88.1%				

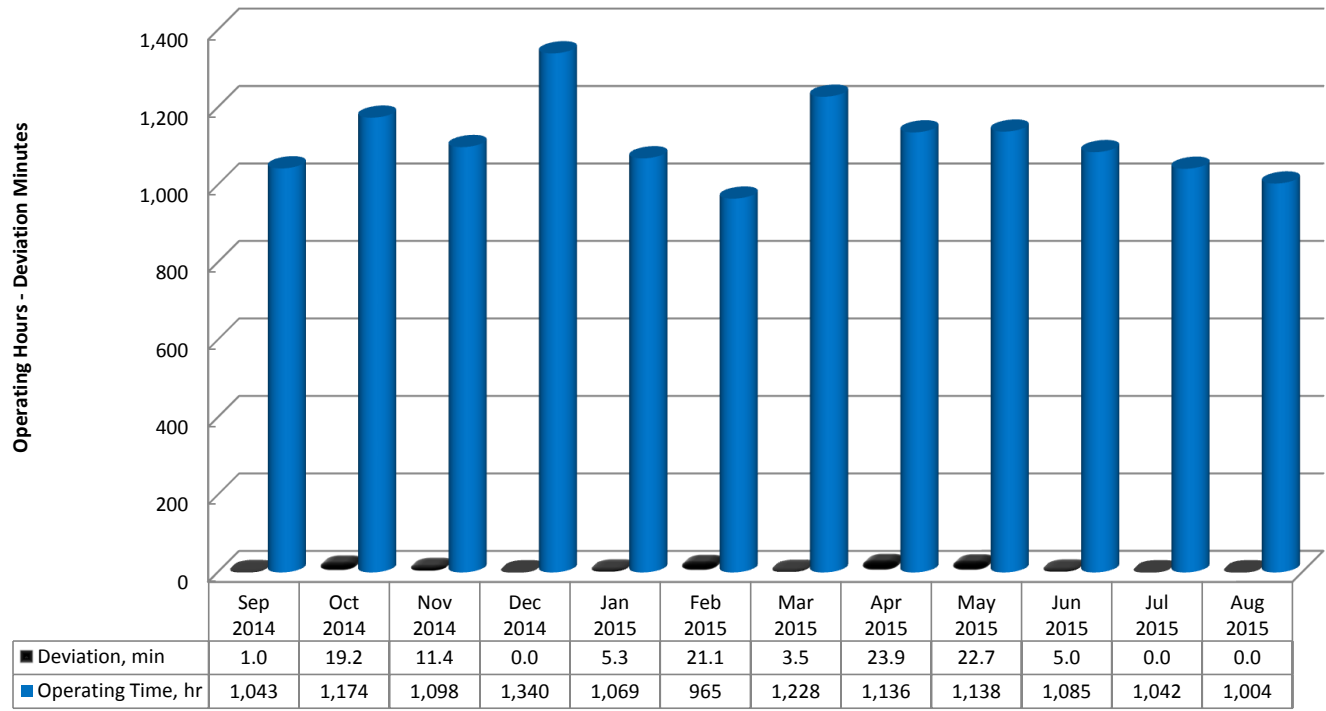
Key Notes

- (1) - Wet solids throughput will vary based on the variance in dry cake % solids.
- (2) - Hourly average
- (3) - 14 day rolling average.
- (4) - Twenty Four (24) hour rolling average
- (5) - Daily average
- (6) - Three (3) minute average
- (7) - Monthly average
- (8) - Annual average
- (9) - Twelve (12) month rolling average.

CARBON MONOXIDE (CO) EMISSIONS

Total Facility (tons/month)		
	Permit Limit ≤ 20.42 (9)	
	Monthly	12 Month Ave
January	11.92	13.33
February	9.49	12.98
March	13.61	12.84
April	11.40	12.62
May	11.97	12.49
June	12.34	12.27
July	11.82	12.27
August	11.47	12.20
September		
October		
November		
December		

Incinerator Emergency Bypass Damper - Combined





Memorandum

TO: Commissioners
FROM: Tom Sigmund
DATE: September 22, 2015
SUBJECT: September Commission Meeting – Executive Director’s Report

- a) The October Commission meeting will be held on Wednesday, October 28, 2015, beginning at 8:30 a.m.