



May 30, 2019

TO ALL UTILITY COMMISSION MEMBERS:

GERRY WARNER
BOB MULLEN
DAN CASEY
PAT BECKER
MIKE KASTENS

This is to inform you that there will be a Utility Commission Meeting on **Wednesday, June 5, 2019 at 8:00 a.m.** in the EDC Lab at the Civic Center.

AGENDA

1. Call to order
2. Adoption of agenda
3. Approval of previous commission meeting minutes (May 1, 2019)
4. Approval of bills and disbursements – May 2019
5. Public Comment
6. Election of Officers
7. Application for Sewer Adjustment – Nancy Gleason
8. Approval of 2018 CMAR Report and Resolution
9. 1Q19 Financial Report
10. Water and Sewer Study Update
11. CTH GG Watermain Design Contract
12. Staff Reports
13. Communications and miscellaneous correspondence
14. Adjourn

Mike Darrow
Utility Manager

A majority of the members of the New Richmond City Council may be present at the above meeting.

Pursuant to State ex rel. Badke v. Greendale Village Board, 173 Wis. 2d 553, 494 N.W. 2nd 408 (1993) such attendance may be considered a meeting of the City Council and must be noticed as such, although the Council will not take action at this meeting.

NEW RICHMOND UTILITY COMMISSION MINUTES

May 1, 2019

The regular meeting of the New Richmond Utility Commission was held on May 1, 2019 at 8:00 a.m. at the Civic Center.

Pat Becker called the meeting to order at 8:00 a.m.

Members Present: Bob Mullen, Mike Kastens, Gerry Warner, and Pat Becker. Dan Casey present via telephone conference call.

A motion was made by Mike Kastens to approve the agenda, seconded by Gerry Warner, and carried.

A motion was made by Gerry Warner to approve the minutes of the April 3, 2019 meeting, seconded by Bob Mullen, and carried.

A motion was made by Bob Mullen to approve April 2019 bills and disbursements, seconded by Gerry Warner, and carried.

Public Comment:

None

Water Master Plan:

The water utility worked with SEH in 2018 to develop a computer model of the water distribution system. This model is used to provide information on the municipal water system, such as available pressure and flow at any given point in the system, and to predict the impact of future capital improvement projects, or developments on the water system. It is a tool for staff and policy-makers to use in making determinations about what development to allow or what improvements to make.

With the Water Model now completed, staff is proposing to use the information gleaned from that model to develop a Water System Master Plan. The Master Plan would evaluate the model information and develop specific recommendations to accommodate both the existing demands on the system as well as potential future development. These recommendations would inform the Capital Improvement Plan in future years. SEH has provided a proposal for the Water System Master Plan for a fee not to exceed \$22,300. Funds for this project would come from reserves on hand. Bob Mullen moved to approve the Water System Master Plan with SEH, not to exceed \$22,300, seconded by Gerry Warner, and carried.

Department Reports

Jeremiah Wendt, Director of Public Works:

Not present.

Steve Skinner, Lead Wastewater Treatment Plant Operator:

- Spring equipment cleaning is complete.
- Gravel bed nursery is full of trees.
- The WWTP is back within permit regulations for ammonia levels.
- Meeting weekly with Biosolids to look at transporting equipment to haul smaller loads.
- Steve is working to set up a time to meet with district legislators to make them aware of the Biosolids hauling issue. Biosolids is looking for their endorsement at the State level if a law change will be required. Rae Ann asked if anyone would be attending Legislative days in May.
- Greg Hermansen & Steve Skinner will be testing for DNR certification today.

Bob Meyer, Water Superintendent:

- Busy with locates.
- Main break on East 2nd was recently repaired.

- Repaired service leak on Wheatfield Lane.
- Meter & Cross connection inspections continue.
- Flushing mains will start on Monday.
- Jet truck is in need of repairs –jet truck is 16 years old.
- Adam Jackson will be doing project inspections.
- Emergency Response Plan is almost complete – due to DNR by June 1st.
- Repairing curb stops

Weston Arndt, Electric Superintendent:

- We had a couple secondary outages due to failed underground. A failed cutout on N. Dakota.
- As ground thawed we were able to repair most of the URD faults.
- April 11 outage – the pole on E 6th St in the Cedar Ct area was a pole that was tested last summer. It was a reject, but not a danger rated pole. The heavy wind load caused the pole to break, one conductor contacted a tree and burned off, causing the outage. The remaining conductor and neutral wires held the pole up. The crew did a great job of responding, assessing, and safely restoring power in some extreme elements.
- As part of the underground fault repairs, we rented a mini-excavator from Express Rental. We feel that this equipment could be a great asset to our department and would make our work more efficient, while reducing our impact on the lawns of residents and businesses. Dave Pufall and I plan on renting a few different sizes and will look to jointly pursue either through purchase or a lease.
- Truck 36 Replacement Bid Update – While working on bids, we were encouraged to consider a 1 ton vs ¾ ton. Existing truck GVW was 8,200 lbs, capacity was 8,800 lbs. Requested updates from dealers. Ram 2020 pricing should be available soon.
- Began to plow in secondary services.
- Growth Strategy Meeting – Thursday May 2.
- Reconnector a section of overhead line on East First St due to the load growth east in the Fox Run and Whispering Prairie developments – Thursday afternoon
- School Safety Day – We will support the fourth grade safety day immediately following the commission meeting.
- Truck Inspections were completed. Dielectric tests were satisfactory. A few minor repairs were recommended.
- Rubber goods testing was performed on all of our insulating blankets, cover-up, hot sticks, etc.
- Darren O’Flanagan is attending Underground School – MEUW.
- MEUW Arc Flash Training in River Falls – May 30.
- Transformer and street light cabinet relocation performed on Knowles – Raedeke Quadruplex.
- MEUW Annual Conference- May 15-17 Lake Lawn Resort – Delavan, WI .
- WPPI Orientation June 6, Sun Prairie, WI.
- WPPI Annual Meeting September 19 and 20, Elkhart Lake, WI.
- Wes highlighted the flexible work schedule.

Thomas Weinmeyer, the new City Council member was introduced.

Stacie Running, ESR:

- Focus on Energy – May report not yet released.
- Thank-a-Lineworker Coloring Contest Winners received a \$25 Chamber Gift Certificate.
 - Kaelyn (age 10)
 - Trennon (age 8)

- Madeline (age 6)
- NRU/WPPI
 - Growth strategy discussion with WPPI – Thursday, May 2 from 8-11.
 - Dave Krause, Lauri Isaacson, Chris Chartier, Tom Paque & Tom Hanrahan.
 - Photography Project with Brooke Ringdahl – Monday, June 24 from 10am to 2pm (approx.)
 - HS Scholarship Award Ceremony – Friday, May 24.
 - Orientation to WPPI – Thursday, June 6; 8:30 breakfast – 12 lunch.
- Customer Updates:
 - Westfields NCDA and Focus Design Assistance Program
 - WPPI Energy and Westfields met (virtually) in April to review plans for the 35,000 sq. ft. primary care facility build.
 - Intent of the process is to explore and quantify a number of alternate envelope, lighting and mechanical systems with the goal of selecting design strategies that demonstrate the highest value.
 - Energy analysis results may be used to form the basis of custom incentives from Focus on Energy and New Richmond Utilities/WPPI Energy.
 - Lakeside Foods customer recognition:
 - Notified Greg Severson of our desire to highlight their business.
 - Currently working to coordinate a time to meet to move this forward.
 - Dance Explosion NCDA
 - Application for the NCDA program approved and Dance Explosion and Derrick Construction have received our report of efficiency recommendations.
 - Groundbreaking for new studio will be 05/08 @ 10:00 am.
 - Several customers have taken action following receipt of the Business Energy Reports.
 - Johnson Ford check presentation on Friday, May 3 @ 1:00 pm.
 - Water & Wastewater demonstrations at the schools May 7, 17, 22, 30.

Rae Ann Ailts, Finance Director:

- In late March, New Richmond Utilities was notified by the Public Service Commission of the need to participate in an electric billing audit. This required a response to approximately 28 questions. Answers, along with documentation have been submitted to the PSC.
- Water & Sewer rate study continues. Staff will be meeting with commercial customers in May. An informational open house for residential customers will be held on June 5th and June 19th.
- The winter moratorium ended April 15th, resulting in 38 electric disconnections.
- All Staff Day was held last Friday.
- On June 12th, the City will be hosting a remembrance ceremony in honor of the 120th Anniversary of the New Richmond Cyclone.
- Discussion on 2020 Budget will begin in May.

Mike Darrow, Utility Manager:

Not present.

There being no further business, Gerry Warner motioned to adjourn, seconded by Mike Kastens, and carried. The meeting adjourned at 8:35 a.m.

New Richmond Utilities

MAY 2019 Check Register

Check #	Date	Amount	Vendor Name	Description
002407	5/3/2019	2,123.60	INFOSEND, INC	MARCH BILLING & POSTAGE
002408	5/6/2019	106.25	CITY OF NEW RICHMOND	BENEFIT EXTRAS MO FSA, ADMIN
002409	5/6/2019	666.00	CITY OF NEW RICHMOND	EMPLOYER HSA CONTRIBUTION
002410	5/6/2019	424.73	CITY OF NEW RICHMOND	LONG TERM DISABILITY
002411	5/6/2019	358.64	CITY OF NEW RICHMOND	SHORT TERM DISABILITY
002412	5/6/2019	21,333.17	CITY OF NEW RICHMOND	HEALTH INSURANCE
002413	5/6/2019	41.94	CITY OF NEW RICHMOND	LIFE INSURANCE
002414	5/6/2019	45,675.00	CITY OF NEW RICHMOND	TAX EQUIVALENT
002415	5/6/2019	25,598.40	CITY OF NEW RICHMOND	STORM WATER
002416	5/6/2019	5,000.00	CITY OF NEW RICHMOND	RENT
002417	5/6/2019	5,964.70	CITY OF NEW RICHMOND	INSURANCE
002418	5/6/2019	18,025.11	CITY OF NEW RICHMOND - RECYCLING	RECYCLING
002419	5/6/2019	300.00	DIGGERS HOTLINE, INC.	PARTIAL SPONSORSHIP
002420	5/6/2019	6,410.80	NEW RICHMOND UTILITIES	APRIL CTC COLLECTIONS
002421	5/9/2019	13,453.82	US BANK CORPORATE PAYMENT SYSTEM	UTILITY OFFICE APR PCARD INV
002422	5/10/2019	61,561.94	CITY OF NEW RICHMOND	PAYROLL 5-10-19
002423	5/14/2019	1,104.10	SPEEDWAY	APRIL GAS BILL
002424	5/20/2019	48,900.00	LOCAL GOVERNMENT INVESTMENT POOL	APRIL WATER IMPACT & SAC FEES
002425	5/17/2019	10,765.14	WI DEPT OF REVENUE	APR19 SALES TAX
002426	5/28/2019	536,571.82	WISCONSIN PUBLIC POWER INC	APRIL PURCHASED POWER
002427	5/16/2019	6,337.09	CITY OF NEW RICHMOND	MONTHLY BILL
002428	5/16/2019	1,440.00	COMMERCIAL TESTING LABORATORY	BOD, PHOSPHOROUS
002429	5/16/2019	339.38	GOLDCOM VOICE & DATA SUPPLY	RED MARKING PAINT
002430	5/16/2019	3,078.50	HAWKINS, INC	ALUMINUM SULFATE
002431	5/16/2019	622.00	HYDRODESIGNS	CROSS CONNECT INSPECT & REPORT
002432	5/16/2019	317.49	MAILFINANCE	STUFFER MAINTENANCE
002433	5/16/2019	325.00	MUNICIPAL ELECTRIC UTIL OF WI	SEMINAR- DARREN O'FLANAGAN
002434	5/16/2019	26.00	WISCONSIN STATE LAB OF HYGIENE	FLUORIDE
002435	5/21/2019	88,420.00	LOCAL GOVERNMENT INVESTMENT POOL	MAY19 INVESTMENTS LGIP#7, 9 &
002436	5/21/2019	51,125.00	LOCAL GOVERNMENT INVESTMENT POOL	MAY19 INVESTMENT LGIP#5,8 & 10
002437	5/24/2019	60,806.70	CITY OF NEW RICHMOND	PAYROLL 5-24-19
002438	5/23/2019	106.25	CITY OF NEW RICHMOND	BENEFIT EXTRAS MO FSA, HRA, AD
002439	5/23/2019	451.71	CITY OF NEW RICHMOND	LONG TERM DISABILITY INS
002440	5/23/2019	369.67	CITY OF NEW RICHMOND	SHORT TERM DISABILITY INS
002441	5/23/2019	666.64	CITY OF NEW RICHMOND	EMPLOYER HSA CONTRIBUTION
002442	5/23/2019	21,333.17	CITY OF NEW RICHMOND	HEALTH INSURANCE
002443	5/23/2019	41.94	CITY OF NEW RICHMOND	LIFE INSURANCE
002444	5/23/2019	45,675.00	CITY OF NEW RICHMOND	TAX EQUIVALENT
002445	5/23/2019	2,123.44	INFOSEND, INC	APRIL BILLING & POSTAGE
002446	5/23/2019	3,159.24	ITRON	HARDWARE MAINT 6-1-19 -5-31-20
002447	5/29/2019	20,025.00	CITY OF NEW RICHMOND	1ST QTR AMINISTRATION
036238	5/3/2019	277.79	SHORT ELLIOTT HENDRICKSON INC	2019 ANTENNA PROJECTS
036239	5/3/2019	1,261.31	XCEL ENERGY	MARCH GAS BILL
036240	5/6/2019	120.26	AMY & CRAIG MEASNER	CR REF ACCT# 409700-23
036241	5/6/2019	134.12	ASHLEY MATSICK	CR REF ACCT# 1098300-21
036242	5/6/2019	28,374.31	BORDER STATES ELECTRIC SUPPLY	TRIPLEX WIRE
036243	5/6/2019	466.67	CLEAR CHOICE BUSINESS SOLUTIONS LLC	WINDOW ENVELOPES
036244	5/6/2019	367.86	CORE & MAIN LP	3" OMNI T2 REGISTER 1000 GAL
036245	5/6/2019	308.40	DAVE & MICHELLE GIVENS	CR REF ACCT# 913900-23
036246	5/6/2019	174.48	ERIC JOHNSON	CR REF ACCT# 905000-20

036247	5/6/2019	171.00	EXPRESS LUBE & RENTAL	MINI EXCAVATOR
036248	5/6/2019	62.30	FIDEL DREPAUL & TARA LEFLER	CR REF ACCT# 900600-25
036249	5/6/2019	68.49	GIRARD'S BUSINESS SOLUTIONS	CLEANING CARD, INK CARTRIDGE
036250	5/6/2019	204.14	HEATHER BORCH	CR REF ACCT# 718500-21
036251	5/6/2019	26.00	INDUSTRIAL SAFETY, INC.	ANNUAL FIRE EXTINGUISHER SVC
036252	5/6/2019	19,551.46	STUART C IRBY CO	FUSE LINK
036253	5/6/2019	182.38	JACQUELINE & MARTY DALTON	CR REF ACCT# 1840900-21
036254	5/6/2019	432.14	J.H. LARSON COMPANY	ALUMINUM WIRE, PVC, COUPLING
036255	5/6/2019	14.70	KAREN PAPE	CR REF ACCT# 218700-20
036256	5/8/2019	0.00	VOID - KEVIN FORREST	VOID CHECK
036257	5/6/2019	43.34	LEAH & DAMION WILSON	CR REF ACCT# 839500-33
036258	5/6/2019	67.68	LORRAINE & JEFFREY HILTGEN	CR REF ACCT# 1316500-30
036259	5/6/2019	107.33	MARIANNE SMITH	CR REF ACCT# 1025300-22
036260	5/6/2019	112.77	MATTHEW OSTER	CR REF ACCT# 1841200-21
036261	5/6/2019	972.29	MUNICIPAL ENVIRONMENTAL GROUP	2019 MEMBERSHIP DUES
036262	5/6/2019	35.57	MICHAEL G GLEASON	CR REF ACCT# 1088600-22
036263	5/6/2019	8,990.00	MSA PROFESSIONAL SERVICES INC	WWTF UPGRADE
036264	5/6/2019	392.00	NARDINI FIRE EQUIP CO., INC.	CO2 INSPECTION, BATTERY
036265	5/6/2019	63.19	NATHAN DODGE	CR REF ACCT# 1802300-21
036266	5/6/2019	7,500.00	NEW RICHMOND CHAMBER	ANNUAL PLATINUM SPONSORSHIP
036267	5/6/2019	79.63	PAUL FENZL	CR REF ACCT# 625300-23
036268	5/6/2019	3,152.54	SHORT ELLIOTT HENDRICKSON INC	MAR SVC STREET/UTIL PROJECTS
036269	5/6/2019	497.14	TRENT SIMONTON-BEEBE	CR REF ACCT# 574500-21
036270	5/6/2019	275.00	TRILOGY CONSULTING, LLC	2018 UTILITY RATE STUDY
036271	5/6/2019	186.90	WARREN SMALLIDGE	CR REF ACCT# 831200-38
036272	5/6/2019	26,768.90	WEST CENTRAL WIS BIOSOLIDS FAC	BIOSOLIDS
036273	5/6/2019	7,911.03	WESCO RECEIVABLES CORP	ABB 150KVA 3PH
036274	5/6/2019	1,136.26	WI DEPT OF REVENUE	2019 GROSS ASSESS & LICENSE FE
036275	5/8/2019	202.47	BALDWIN TELCOMM	APRIL PHONE BILL
036276	5/8/2019	333.92	FRONTIER COMMUNICATIONS	APRIL PHONE BILL
036277	5/8/2019	195.62	VERIZON WIRELESS	APRIL CELL PHONE BILL
036278	5/8/2019	8,508.06	WENDY L JACKSON	CR REF ACCT# 713500-23
036279	5/8/2019	0.00	VOID - KEVIN FORREST	VOID CHECK
036280	5/14/2019	0.00	VOID - CITY OF NEW RICHMOND	VOID CHECK
036281	5/14/2019	0.00	VOID - CITY OF NEW RICHMOND	VOID CHECK
036282	5/14/2019	95.00	CITY OF NEW RICHMOND	DMV LEASE 1ST QTR RENT
036283	5/14/2019	215.57	ROBERT PERKINS	CR REF ACCT# 1399400-20
036284	5/16/2019	1,155.34	AMERIPRIDE LINEN & UNIFORM SERVICES	ELEC DEPT UNIFORM SVC
036285	5/16/2019	480.00	BAKER TILLY VIRCHOW KRAUSE LLP	FINANCIAL STATEMENT AUDIT
036286	5/16/2019	331.94	B & C	INNERDUCT COUPLINGS
036287	5/16/2019	59.50	CEMSTONE READY MIX INC	4500, 3/4 GV, AE
036288	5/16/2019	10,414.78	CORE & MAIN LP	3/4 IPERL METER
036289	5/16/2019	1,927.90	DG ENERGY	TESTING HOT STICK, BLANKET, LI
036290	5/16/2019	521.60	DUANE W NIELSEN COMPANY	CALIBRATE INFLUENT & EFFLUENT
036291	5/16/2019	2,777.90	STUART C IRBY CO	RETURN SPOOL TIE
036292	5/16/2019	2,798.00	JAGUAR SOFTWARE	ANNUAL SOFTWARE MAINTENANCE
036293	5/16/2019	662.39	KWIK TRIP	APRIL GAS
036294	5/16/2019	2,635.28	METERING & TECHNOLOGY SOLUTIONS	100W ERT, ENCODER
036295	5/16/2019	121.23	MY RECEPTIONIST, INC	ANSWERING SVC MAY 1 - MAY 28
036296	5/16/2019	3,990.00	SCHMITT & SONS EXCAVATING, INC	WATER LEAKS 194 WHEATLAND & E
036297	5/16/2019	761.42	WESCO RECEIVABLES CORP	TRANSFORMER BASEMENT 3PH
036298	5/23/2019	5,667.96	BORDER STATES ELECTRIC SUPPLY	INNERDUCT 2"
036299	5/23/2019	13.11	BRENT A WILEN	CR REF ACCT# 306900-32
036300	5/23/2019	54.36	CORPORATE RELOCATION LLC	CR REF ACCT# 1475500-20
036301	5/23/2019	21.97	DEERFIELD	CR REF ACCT# 805200-35
036302	5/23/2019	74.38	ELECTRICAL TESTING LABORATORY	GLOVE TESTING

036303	5/23/2019	486.66	EXPRESS LUBE & RENTAL	RENT EXCAVATOR
036304	5/23/2019	1,522.06	STUART C IRBY CO	ALUM SPLICE, COMP SPLICE
036305	5/23/2019	1,075.51	J.H. LARSON COMPANY	STEEL LOCKNUT, BUSHING
036306	5/23/2019	55.03	PAUL OLSON	CR REF ACCT# 906300-21
036307	5/23/2019	83.07	PEACE ON THE RIVER LLC	CR REF ACCT# 302000-21
036308	5/23/2019	302.24	RESCO	GUY GUARD, LEADERGUARD
036309	5/23/2019	113.42	SAMUEL ZUFELT	CR REF ACCT# 1843000-21
036310	5/23/2019	3,370.34	UTILITY SALES AND SERVICE INC.	ANNUAL AERIAL INSPECTION & REP
036311	5/23/2019	88.47	WARREN O NELSON	CR REF ACCT# 1486300-34
036312	5/23/2019	240.56	WESTON ARNDT	MEUW ANNUAL CONFERENCE REIMB
036313	5/23/2019	86.28	WESCO RECEIVABLES CORP	LUCALOX
036314	5/23/2019	483.32	WESTVIEW CONSTRUCTION INC	CR REF ACCT# 1850100-20
036315	5/23/2019	375.00	DNR	2019 WATER USE FEES
036316	5/23/2019	490.44	XCEL ENERGY	APRIL GAS BILL

Total **\$ 1,274,455.86**
Total Checks & Wires



To: Utility Commission
From: Rae Ann Ailts, Finance Director
Date: May 29, 2019
RE: Request for Sewer Credit – Nancy Gleason

Background

On April 15, 2019, Nancy Gleason became aware of a leak in her home. The leak occurred under the concrete slab in the main bathroom of the home. Ms. Gleason contacted the Utility requesting a refund of sewer charges for the excess water used because of the leak. On May 21, New Richmond Utilities received a request for sewer credit from Ms. Gleason in accordance with the application criteria of the Water Leak Sewer Adjustment Policy.

On May 22, Pat Howell of the Water Department conducted an inspection of the home and verified that repairs were completed. He determined excess water did not go down a drain and would have been absorbed into the ground.

The Water Leak Sewer Adjustment Policy states “Only water pipe breaks (leaks) that develop inside of the building which do not add any volume of the water at the WWTP may be considered for a sewer adjustment. There will be no adjustment to the water portion of the bill.”

Ms. Gleason is requesting a sewer credit for her April 15 and May 15 billing. Average monthly usage for the account is 2,000 gallons. Based on the average usage, the April 15 billing has 5,000 gallons of additional water used equaling a sewer credit of \$29.75. The May 15 billing has 7,000 gallons of additional water used, equaling a sewer credit of \$41.65. A combined sewer credit based on 12,000 gallons of additional water used is \$71.40 (per 1,000 volume rate of $5.95 \times 12 = \$71.40$).

Recommendation

Staff has reviewed the application for sewer credit and recommends a sewer credit of \$71.40 is approved as the excess water used was absorbed within the ground and the application was completed pursuant to the policy.



156 East First Street
New Richmond, WI 54017
715-246-4268
www.newrichmondwi.gov

MEMORANDUM

TO: Utility Commission
FROM: Steve Skinner, WWTP Operator
DATE: May 30, 2019
SUBJECT: 2018 CMAR Report

BACKGROUND

Pursuant to Chapter 208 of the Wisconsin Administrative Code, all wastewater treatment facilities must submit an annual report to the Wisconsin DNR, referred to as the Compliance Maintenance Annual Report (CMAR). The CMAR evaluates the wastewater treatment system for potential problems or deficiencies. Management, operation, and maintenance activities are covered, as well as compliance with permit requirements. Around April 30 of each year, the DNR makes electronic CMAR forms available for the previous calendar year. The Utility Commission is required to pass a resolution that verifies it has reviewed the CMAR and authorizes the WWTP Operator to submit the report.

RECOMMENDATIONS

Staff recommend approval of the 2018 CMAR.

ATTACHMENTS

- 2018 CMAR



CMAR Report Year 2018

COMPLIANCE MAINTENANCE RESOLUTION

#06052019

Resolved that the **City of New Richmond** informs the Wisconsin Department of Natural Resources that the following actions were taken by the **Utility Commission**.

1. Review the Compliance Maintenance Annual Report, which is attached to this Resolution.
2. Set forth the following actions necessary to maintain effluent requirements contained in the WPDES Permit:
 - (a) No action was taken.

Passed by a unanimous vote of the Utility Commission on **June 5, 2019**.

Mike Darrow
Utility Manager

Tanya Batchelor
Clerk

Compliance Maintenance Annual Report

New Richmond Wastewater Treatment Facility

Last Updated: Reporting For:

5/9/2019

2018

Influent Flow and Loading

1. Monthly Average Flows and (C)BOD Loadings

1.1 Verify the following monthly flows and (C)BOD loadings to your facility.

Influent No. 701	Influent Monthly Average Flow, MGD	x	Influent Monthly Average (C)BOD Concentration mg/L	x	8.34	=	Influent Monthly Average (C)BOD Loading, lbs/day
January	0.6810	x	317	x	8.34	=	1,801
February	0.6589	x	326	x	8.34	=	1,790
March	0.6744	x	295	x	8.34	=	1,660
April	0.6889	x	300	x	8.34	=	1,723
May	0.6629	x	312	x	8.34	=	1,726
June	0.6514	x	316	x	8.34	=	1,714
July	0.6441	x	321	x	8.34	=	1,723
August	0.6347	x	329	x	8.34	=	1,740
September	0.6527	x	315	x	8.34	=	1,716
October	0.6710	x	331	x	8.34	=	1,855
November	0.6573	x	347	x	8.34	=	1,902
December	0.6636	x	366	x	8.34	=	2,026

2. Maximum Monthly Design Flow and Design (C)BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	.98	x	90	=	0.882
		x	100	=	.98
Design (C)BOD, lbs/day	2160	x	90	=	1944
		x	100	=	2160

2.2 Verify the number of times the flow and (C)BOD exceeded 90% or 100% of design, points earned, and score:

	Months of Influent	Number of times flow was greater than 90% of	Number of times flow was greater than 100% of	Number of times (C)BOD was greater than 90% of design	Number of times (C)BOD was greater than 100% of design
January	1	0	0	0	0
February	1	0	0	0	0
March	1	0	0	0	0
April	1	0	0	0	0
May	1	0	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	1	0
Points per each		2	1	3	2
Exceedances		0	0	1	0
Points		0	0	3	0
Total Number of Points					3

3

Compliance Maintenance Annual Report

New Richmond Wastewater Treatment Facility

Last Updated: Reporting For:

5/9/2019

2018

Yes

No

If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.

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Total Points Generated	3
Score (100 - Total Points Generated)	97
Section Grade	A

Compliance Maintenance Annual Report

New Richmond Wastewater Treatment Facility

Last Updated: Reporting For:

5/9/2019

2018

Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit > 10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	11	1	0	0
February	30	27	12	1	0	0
March	30	27	14	1	0	0
April	30	27	10	1	0	0
May	26	23.4	9	1	0	0
June	26	23.4	7	1	0	0
July	26	23.4	6	1	0	0
August	26	23.4	4	1	0	0
September	26	23.4	6	1	0	0
October	26	23.4	6	1	0	0
November	30	27	9	1	0	0
December	30	27	10	1	0	0

* Equals limit if limit is <= 10

Months of discharge/yr	12		
Points per each exceedance with 12 months of discharge		7	3
Exceedances		0	0
Points		0	0
Total number of points			0

0

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

2. Flow Meter Calibration

2.1 Was the effluent flow meter calibrated in the last year?

Yes Enter last calibration date (MM/DD/YYYY)

2019-04-16

No

If No, please explain:

3. Treatment Problems

3.1 What problems, if any, were experienced over the last year that threatened treatment?

No problems that threaten treatment compliance.

4. Other Monitoring and Limits

4.1 At any time in the past year was there an exceedance of a permit limit for any other pollutants such as chlorides, pH, residual chlorine, fecal coliform, or metals?

Yes

No

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<p>If Yes, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If Yes, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
<p>4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p> <p>Please explain unless not applicable:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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2018

Effluent Quality and Plant Performance (Total Suspended Solids)

1. Effluent Total Suspended Solids Results

1.1 Verify the following monthly average effluent values, exceedances, and points for TSS:

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	9	1	0	0
February	30	27	7	1	0	0
March	30	27	8	1	0	0
April	30	27	7	1	0	0
May	26	23.4	9	1	0	0
June	26	23.4	8	1	0	0
July	26	23.4	8	1	0	0
August	26	23.4	6	1	0	0
September	26	23.4	5	1	0	0
October	26	23.4	6	1	0	0
November	30	27	10	1	0	0
December	30	27	13	1	0	0

* Equals limit if limit is <= 10

Months of Discharge/yr	12		
Points per each exceedance with 12 months of discharge:	7	3	
Exceedances	0	0	
Points	0	0	
Total Number of Points		0	

0

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

No violations and no actions needed.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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5/9/2019 **2018**

Effluent Quality and Plant Performance (Ammonia - NH3)

1. Effluent Ammonia Results

1.1 Verify the following monthly and weekly average effluent values, exceedances and points for ammonia

Outfall No. 001	Monthly Average NH3 Limit (mg/L)	Weekly Average NH3 Limit (mg/L)	Effluent Monthly Average NH3 (mg/L)	Monthly Permit Limit Exceedance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceedance
January	16		2.214347	0					
February	16		6.506	0					
March	16		4.446666	0					
April	17		2.227272	0					
May	17		.3275	0					
June	18		0	0					
July	18		.0547826	0					
August	18		2.175	0					
September	18		.1457142	0					
October	16		.0260869	0					
November	16		.7085714	0					
December	16		2.070909	0					
Points per each exceedance of Monthly average:									10
Exceedances, Monthly:									0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):									2.5
Exceedances, Weekly:									0
Points:									0
Total Number of Points									0

0

NOTE: Limit exceedances are considered for monthly OR weekly averages but not both. When a monthly average limit exists it will be used to determine exceedances and generate points. This will be true even if a weekly limit also exists. When a weekly average limit exists and a monthly limit does not exist, the weekly limit will be used to determine exceedances and generate points.

1.2 If any violations occurred, what action was taken to regain compliance?

No violation occurred.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1	0.530	1	0
February	1	0.359	1	0
March	1	0.417	1	0
April	1	0.470	1	0
May	1	0.664	1	0
June	1	0.739	1	0
July	1	0.716	1	0
August	1	0.751	1	0
September	1	0.557	1	0
October	1	0.595	1	0
November	1	0.714	1	0
December	1	0.773	1	0
Months of Discharge/yr			12	
Points per each exceedance with 12 months of discharge:				10
Exceedances				0
Total Number of Points				0

0

NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

No violations occurred.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Biosolids Quality and Management

1. Biosolids Use/Disposal

1.1 How did you use or dispose of your biosolids? (Check all that apply)

- Land applied under your permit
- Publicly Distributed Exceptional Quality Biosolids
- Hauled to another permitted facility
- Landfilled
- Incinerated
- Other

NOTE: If you did not remove biosolids from your system, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc.

1.1.1 If you checked Other, please describe:

3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year.

Outfall No. 002 - SLUDGE TO THE WCWBF

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75			1.47											0	0
Cadmium		39	85			1.66											0	0
Copper		1500	4300			164											0	0
Lead		300	840			<16.5											0	0
Mercury		17	57			.68											0	0
Molybdenum	60		75			8.45										0		0
Nickel	336		420			10.7										0		0
Selenium	80		100			2.76										0		0
Zinc		2800	7500			303											0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

- 0 (0 Points)
- 1-2 (10 Points)
- > 2 (15 Points)

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)

- Yes
- No (10 points)
- N/A - Did not exceed limits or no HQ limit applies (0 points)
- N/A - Did not land apply biosolids until limit was met (0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0

Exceedence Points

- 0 (0 Points)
- 1 (10 Points)
- > 1 (15 Points)

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

- Yes (20 Points)
- No (0 Points)

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<p>3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?</p> <p>N/A</p>	0
<p>6. Biosolids Storage</p> <p>6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?</p> <ul style="list-style-type: none"> ● \geq 180 days (0 Points) ○ 150 - 179 days (10 Points) ○ 120 - 149 days (20 Points) ○ 90 - 119 days (30 Points) ○ $<$ 90 days (40 Points) ○ N/A (0 Points) <p>6.2 If you checked N/A above, explain why.</p> <p></p>	0
<p>7. Issues</p> <p>7.1 Describe any outstanding biosolids issues with treatment, use or overall management:</p> <p>N/A</p>	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Staffing and Preventative Maintenance (All Treatment Plants)

<p>1. Plant Staffing</p> <p>1.1 Was your wastewater treatment plant adequately staffed last year?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p>2. Preventative Maintenance</p> <p>2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?</p> <ul style="list-style-type: none">● Yes (Continue with question 2) <input type="checkbox"/>○ No (40 points) <input type="checkbox"/> <p>If No, please explain, then go to question 3:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?</p> <ul style="list-style-type: none">● Yes○ No (10 points) <p>2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?</p> <ul style="list-style-type: none">● Yes<ul style="list-style-type: none">○ Paper file system○ Computer system● Both paper and computer system○ No (10 points)	0
<p>3. O&M Manual</p> <p>3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?</p> <ul style="list-style-type: none">● Yes○ No	
<p>4. Overall Maintenance /Repairs</p> <p>4.1 Rate the overall maintenance of your wastewater plant.</p> <ul style="list-style-type: none">○ Excellent● Very good○ Good○ Fair○ Poor <p>Describe your rating:</p>	

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Plant receives the required preventive maintenance along with needed repairs to keep plant operating well.
--

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Operator Certification and Education

<p>1. Operator-In-Charge</p> <p>1.1 Did you have a designated operator-in-charge during the report year?</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (20 points) <p>Name: <input style="width: 300px;" type="text" value="STEVEN W SKINNER"/></p> <p>Certification No: <input style="width: 150px;" type="text" value="33826"/></p>	0																																																																																							
<p>2. Certification Requirements</p> <p>2.1 In accordance with Chapter NR 114.56 and 114.57, Wisconsin Administrative Code, what level and subclass(es) were required for the operator-in-charge (OIC) to operate the wastewater treatment plant and what level and subclass(es) were held by the operator-in-charge?</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Sub Class</th> <th rowspan="2">SubClass Description</th> <th>WWTP</th> <th colspan="2">OIC</th> </tr> <tr> <th>Advanced</th> <th>OIT</th> <th>Basic</th> <th>Advanced</th> </tr> </thead> <tbody> <tr><td>A1</td><td>Suspended Growth Processes</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>A2</td><td>Attached Growth Processes</td><td></td><td></td><td></td><td></td></tr> <tr><td>A3</td><td>Recirculating Media Filters</td><td></td><td></td><td></td><td></td></tr> <tr><td>A4</td><td>Ponds, Lagoons and Natural</td><td></td><td></td><td></td><td></td></tr> <tr><td>A5</td><td>Anaerobic Treatment Of Liquid</td><td></td><td></td><td></td><td></td></tr> <tr><td>B</td><td>Solids Separation</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>C</td><td>Biological Solids/Sludges</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>P</td><td>Total Phosphorus</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>N</td><td>Total Nitrogen</td><td></td><td></td><td></td><td></td></tr> <tr><td>D</td><td>Disinfection</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>L</td><td>Laboratory</td><td>X</td><td></td><td></td><td>X</td></tr> <tr><td>U</td><td>Unique Treatment Systems</td><td></td><td></td><td></td><td></td></tr> <tr><td>SS</td><td>Sanitary Sewage Collection</td><td>X</td><td>NA</td><td>NA</td><td>NA</td></tr> </tbody> </table> <p>2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS, N and A5 not required in 2018; subclass SS is basic level only.)</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (20 points) 	Sub Class	SubClass Description	WWTP	OIC		Advanced	OIT	Basic	Advanced	A1	Suspended Growth Processes	X			X	A2	Attached Growth Processes					A3	Recirculating Media Filters					A4	Ponds, Lagoons and Natural					A5	Anaerobic Treatment Of Liquid					B	Solids Separation	X			X	C	Biological Solids/Sludges	X			X	P	Total Phosphorus	X			X	N	Total Nitrogen					D	Disinfection	X			X	L	Laboratory	X			X	U	Unique Treatment Systems					SS	Sanitary Sewage Collection	X	NA	NA	NA	0
Sub Class			SubClass Description	WWTP	OIC																																																																																			
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SS	Sanitary Sewage Collection	X	NA	NA	NA																																																																																			
<p>3. Succession Planning</p> <p>3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)?</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> One or more additional certified operators on staff <input type="checkbox"/> An arrangement with another certified operator <input type="checkbox"/> An arrangement with another community with a certified operator <input type="checkbox"/> An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year <input type="checkbox"/> A consultant to serve as your certified operator <input type="checkbox"/> None of the above (20 points) <p>If "None of the above" is selected, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>	0																																																																																							
<p>4. Continuing Education Credits</p>																																																																																								

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<p>4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates?</p> <p>OIT and Basic Certification:</p> <ul style="list-style-type: none"><input type="radio"/> Averaging 6 or more CECs per year.<input type="radio"/> Averaging less than 6 CECs per year. <p>Advanced Certification:</p> <ul style="list-style-type: none"><input checked="" type="radio"/> Averaging 8 or more CECs per year.<input type="radio"/> Averaging less than 8 CECs per year.	
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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Financial Management

<p>1. Provider of Financial Information</p> <p>Name: <input style="width: 150px;" type="text" value="Rae Ann Ailts"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="(715) 243 0489"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="railts@newrichmondwi.gov"/></p>																	
<p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p>● Yes (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ No (40 points)</p> <p>If No, please explain: <input style="width: 750px; height: 20px;" type="text"/></p> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input style="width: 150px;" type="text" value="2018"/></p> <p>● 0-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWF required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p>● Yes (0 points)</p> <p>○ No (40 points)</p>	0																
<p>REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]</p>																	
<p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input style="width: 150px;" type="text" value="2018"/></p> <p>● 1-2 years ago (0 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ 3 or more years ago (20 points) <input type="checkbox"/><input type="checkbox"/></p> <p>○ N/A</p> <p>If N/A, please explain: <input style="width: 750px; height: 20px;" type="text"/></p>																	
<p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 30%; text-align: right;"><input style="width: 150px;" type="text" value="487,984.97"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="487,984.97"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 150px;" type="text" value="98,182.39"/></td> </tr> </table>	3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 150px;" type="text" value="487,984.97"/>	3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	+	\$	<input style="width: 150px;" type="text" value="0.00"/>	3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="487,984.97"/>	3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 150px;" type="text" value="98,182.39"/>	
3.2.1 Ending Balance Reported on Last Year's CMAR		\$	<input style="width: 150px;" type="text" value="487,984.97"/>														
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	+	\$	<input style="width: 150px;" type="text" value="0.00"/>														
3.2.3 Adjusted January 1st Beginning Balance		\$	<input style="width: 150px;" type="text" value="487,984.97"/>														
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	+	\$	<input style="width: 150px;" type="text" value="98,182.39"/>														

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) -

\$ 0.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year

\$ 586,167.36

All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

3.3 What amount should be in your Replacement Fund?

\$ 42,000.00

0

Please note: If you had a CWFP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

Yes

No

If No, please explain.

4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

Yes - If Yes, please provide major project information, if not already listed below.

No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	Positive displacement blower addition	180000	2021
2	addition of grit removal system	886019	2020
3	Thickener/Clarifier Equipment replacement	421000	2020
4	Phosphorous Optimization	77,800	2020

5. Financial Management General Comments

We are in process of completing a sewer rate study in which user rates are anticipated to change as early as 4Q19.

ENERGY EFFICIENCY AND USE

6. Collection System

6.1 Energy Usage

6.1.1 Enter the monthly energy usage from the different energy sources:

COLLECTION SYSTEM PUMPAGE: Total Power Consumed

Number of Municipally Owned Pump/Lift Stations:

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	24,592	679
February	25,524	630
March	23,938	195
April	23,619	125
May	23,653	22
June	20,515	6
July	19,477	12
August	19,215	10
September	18,471	24
October	18,436	55
November	20,169	292
December	22,602	404
Total	260,211	2,454
Average	21,684	205

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply):

- Comminution or Screening
- Extended Shaft Pumps
- Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- Variable Speed Drives
- Other:

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

No

Yes

Year:

By Whom:

Describe and Comment:

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6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

Continued upgrades to L/S as needed. Implementing control upgrades, VFD motor controls, and adding sites to SCADA system for monitoring as required.

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	38,472	21.11	1,822	55.83	689	
February	41,344	18.45	2,241	50.12	825	
March	35,992	20.91	1,721	51.46	699	
April	39,672	20.67	1,919	51.69	767	
May	40,424	20.55	1,967	53.51	755	
June	39,392	19.54	2,016	51.42	766	
July	41,232	19.97	2,065	53.41	772	
August	45,304	19.68	2,302	53.94	840	
September	39,336	19.58	2,009	51.48	764	
October	38,584	20.80	1,855	57.51	671	
November	33,744	19.72	1,711	57.06	591	
December	35,384	20.57	1,720	62.81	563	
Total	468,880	241.55		650.24		0
Average	39,073	20.13	1,946	54.19	725	0

7.1.2 Comments:

7.2 Energy Related Processes and Equipment

7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):

- Aerobic Digestion
- Anaerobic Digestion
- Biological Phosphorus Removal
- Coarse Bubble Diffusers
- Dissolved O2 Monitoring and Aeration Control
- Effluent Pumping
- Fine Bubble Diffusers
- Influent Pumping
- Mechanical Sludge Processing
- Nitrification
- SCADA System
- UV Disinfection
- Variable Speed Drives

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Other:

7.2.2 Comments:

7.3 Future Energy Related Equipment

7.3.1 What energy efficient equipment or practices do you have planned for the future for your treatment facility?

Incorporating technology where it cost effective and will benefit the treatment process.

8. Biogas Generation

8.1 Do you generate/produce biogas at your facility?

No

Yes

If Yes, how is the biogas used (Check all that apply):

Flared Off

Building Heat

Process Heat

Generate Electricity

Other:

9. Energy Efficiency Study

9.1 Has an Energy Study been performed for your treatment facility?

No

Yes

Entire facility

Year:

By Whom:

Describe and Comment:

Part of the facility

Year:

By Whom:

Describe and Comment:

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A energy audit was performed on the aeration system to see if a system upgrade would be cost effective. It was recommended to install a smaller PD blower with VFD controls and aeration diffuser disc upgrade. This upgrade saves an average of \$2,000 monthly or \$24,000 annually in electrical costs.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Sanitary Sewer Collection Systems

1. Capacity, Management, Operation, and Maintenance (CMOM) Program

1.1 Do you have a CMOM program that is being implemented?

- Yes
- No

If No, explain:

1.2 Do you have a CMOM program that contains all the applicable components and items according to Wisc. Adm Code NR 210.23 (4)?

- Yes
- No (30 points)
- N/A

If No or N/A, explain:

1.3 Does your CMOM program contain the following components and items? (check the components and items that apply)

Goals [NR 210.23 (4)(a)]

Describe the major goals you had for your collection system last year:

Did you accomplish them?

- Yes
- No

If No, explain:

Organization [NR 210.23 (4) (b)]

Does this chapter of your CMOM include:

- Organizational structure and positions (eg. organizational chart and position descriptions)
- Internal and external lines of communication responsibilities
- Person(s) responsible for reporting overflow events to the department and the public

Legal Authority [NR 210.23 (4) (c)]

What is the legally binding document that regulates the use of your sewer system?

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY)

Does your sewer use ordinance or other legally binding document address the following:

- Private property inflow and infiltration
 - New sewer and building sewer design, construction, installation, testing and inspection
 - Rehabilitated sewer and lift station installation, testing and inspection
 - Sewage flows satellite system and large private users are monitored and controlled, as necessary
 - Fat, oil and grease control
 - Enforcement procedures for sewer use non-compliance
 - Operation and Maintenance [NR 210.23 (4) (d)]
- Does your operation and maintenance program and equipment include the following:
- Equipment and replacement part inventories
 - Up-to-date sewer system map
 - A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation

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A description of routine operation and maintenance activities (see question 2 below)
 Capacity assessment program
 Basement back assessment and correction
 Regular O&M training
 Design and Performance Provisions [NR 210.23 (4) (e)]
 What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?
 State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
 Construction, Inspection, and Testing
 Others:

Overflow Emergency Response Plan [NR 210.23 (4) (f)]
 Does your emergency response capability include:
 Responsible personnel communication procedures
 Response order, timing and clean-up
 Public notification protocols
 Training
 Emergency operation protocols and implementation procedures
 Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]
 Special Studies Last Year (check only those that apply):
 Infiltration/Inflow (I/I) Analysis
 Sewer System Evaluation Survey (SSES)
 Sewer Evaluation and Capacity Management Plan (SECAP)
 Lift Station Evaluation Report
 Others:

0

2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning	<input type="text" value="95"/>	% of system/year
Root removal	<input type="text" value="90"/>	% of system/year
Flow monitoring	<input type="text" value="1"/>	% of system/year
Smoke testing	<input type="text" value="0"/>	% of system/year
Sewer line televising	<input type="text" value="0"/>	% of system/year
Manhole inspections	<input type="text" value="90"/>	% of system/year
Lift station O&M	<input type="text" value="16"/>	# per L.S./year
Manhole rehabilitation	<input type="text" value="1"/>	% of manholes rehabbed
Mainline rehabilitation	<input type="text" value="1"/>	% of sewer lines rehabbed
Private sewer inspections	<input type="text" value="1"/>	% of system/year
Private sewer I/I removal	<input type="text" value="1"/>	% of private services

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River or water crossings % of pipe crossings evaluated or maintained

Please include additional comments about your sanitary sewer collection system below:

3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

31.58	Total actual amount of precipitation last year in inches
38.6	Annual average precipitation (for your location)
70	Miles of sanitary sewer
16	Number of lift stations
0	Number of lift station failures
0	Number of sewer pipe failures
0	Number of basement backup occurrences
0	Number of complaints
0.662	Average daily flow in MGD (if available)
	Peak monthly flow in MGD (if available)
	Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

0.00	Lift station failures (failures/year)
0.00	Sewer pipe failures (pipe failures/sewer mile/yr)
0.00	Sanitary sewer overflows (number/sewer mile/yr)
0.00	Basement backups (number/sewer mile)
0.00	Complaints (number/sewer mile)
0.0	Peaking factor ratio (Peak Monthly:Annual Daily Avg)
0.0	Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OFERFLOWS REPORTED **			
Date	Location	Cause	Estimated Volume (MG)
None reported			

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- No

If Yes, please describe:

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

- Yes
- No

If Yes, please describe:

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<p>5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:</p> <p>There no changes in I/I from previous years.</p> <p>5.4 What is being done to address infiltration/inflow in your collection system?</p> <p>Televising in 2017 indicated some joint I/I. Have contractor lined up to repair in 2019.</p>

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Grading Summary

WPDES No: 0021245

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Ammonia	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS			37	148
GRADE POINT AVERAGE (GPA) = 4.00				

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

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Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of New Richmond

Date of Resolution or
Action Taken:

Resolution Number:

Date of Submittal:

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Influent Flow and Loadings: Grade = A

Effluent Quality: BOD: Grade = A

Effluent Quality: TSS: Grade = A

Effluent Quality: Ammonia: Grade = A

Effluent Quality: Phosphorus: Grade = A

Biosolids Quality and Management: Grade = A

Staffing: Grade = A

Operator Certification: Grade = A

Financial Management: Grade = A

Collection Systems: Grade = A

(Regardless of grade, response required for Collection Systems if SSOs were reported)

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)

G.P.A. = 4.00



156 EAST FIRST STREET
NEW RICHMOND, WI 54017
715-246-4268
WWW.NEWRICHMONDWI.GOV

MEMORANDUM

TO: Utility Commission
FROM: Joel Enders, Management Analyst
DATE: May 29, 2019
SUBJECT: First Quarter 2019 Financial Results

BACKGROUND

Staff will review and present analysis of first quarter 2019 financial results at the upcoming Utility Commission meeting.

RECOMMENDATIONS

Discussion item only – no action is being requested at this time.



TO: Utilities Commission
FROM: Rae Ann Ailts, Finance Director
DATE: May 29, 2019
RE: Water and Sewer Rate Study Update

Background

Staff will provide an update and review the below timeline for the water and sewer rate study during the meeting. Attached to this memo is the open house letter mailed to all water and sewer customers.

May

- Letter mailed to all ratepayers for open house
- Website page launched

June

- June 5 – 6:00 pm Civic Center (Council Chambers)
- June 19 – 6:00 pm Civic Center (Council Chambers)
- Individual meetings with largest ratepayers

July

- Presentation by Trilogy regarding proposed rate structure
- Commission recommendation on rate structure

Recommendation

No action is requested at this time.



156 EAST 1ST STREET
NEW RICHMOND, WI 54017
WWW.NRUTILITIES.COM

John W. Doe
156 E 555 ST
New Richmond, WI 54017

IMPORTANT NOTICE: NEW RICHMOND UTILITIES (NRU) IS CONSIDERING CHANGES TO WATER AND SEWER RATES. A PUBLIC OPEN HOUSE WILL BE HELD ON JUNE 5 AND JUNE 19, 2019 AT THE NEW RICHMOND CIVIC CENTER, 156 EAST FIRST STREET.

Dear NRU Customer,

In September 2018, New Richmond Utilities (NRU) engaged Trilogy Consulting, a firm that specializes in utility rate studies, to independently examine the financial health and sustainability of current and future operations. Water rates were last changed in 2014, while sewer rates were last changed in 2012. Since then, state and federal environmental regulations, population growth, aging water and sewer infrastructure, and normal market inflation have increased current and future costs. NRU water and sewer operations are fully funded by system users and *not* supported by any other funding, such as taxes, therefore rates must be sufficient to cover short-term operational costs like daily wastewater treatment and water pumping, as well as long-term capital costs such as water mains, treatment equipment, and well pumps. Based on the rate study findings, the New Richmond Utilities Commission and City Council will consider water and sewer rate changes at scheduled July and August meetings, respectively. If approved, NRU will submit a water rate case application to the Public Service Commission of Wisconsin for final approval, while sewer rates will be brought forward to the City Council for approval.

New Richmond Utilities is committed to a transparent rate setting process, and invite you to a public open house on **June 5, 2019 at 6:00 pm and June 19, 2019 at 6:00 pm** at the New Richmond Civic Center (156 E 1ST ST). NRU staff will explain the life cycle of a utility operation, how rates are evaluated, and most important, why utility rate changes are being considered. Following the open house and prior to rate finalization, an update outlining proposed rates and timeline will be sent via mail. There will also be educational and informational material posted on www.newrichmondwi.gov in the coming weeks that covers everything from utility management and rate setting to consumer impact and comparisons with peer utilities in Wisconsin.

Sincerely,

Mike Darrow
City Administrator



MEMORANDUM

TO: Utility Commission

FROM: Jeremiah Wendt, Director of Public Works

DATE: May 29, 2019

SUBJECT: CTH GG Watermain Design

Background

St. Croix County has plans to reconstruct CTH GG from 140th Street to 150th Street in 2020. The City does not currently have watermain in this location to serve the Peninsula Heights subdivision, which is served only through an easement from Wood Duck Lane. The watermain to this subdivision should be looped to provide reliability and redundancy in service, and the timing with the county's project would allow the City to install the main without the need for roadway restoration.

Because of all these factors, this project has been included in the Capital Improvement Plan for 2020. Based on the funding sources for the County's project, the design plans for our project will need to be completed by the end of the year. As such, staff has requested and received a proposal from SEH for design of this project. That proposal, along with the planning level cost estimate for the project, is attached to this memo.

Recommendation

Staff is recommending approval of the attached agreement with SEH to design the CTH GG watermain project for a cost not to exceed \$23,500.

Supplemental Letter Agreement

In accordance with the Master Agreement for Professional Services (Master Agreement) between City of New Richmond ("Client"), and Short Elliott Hendrickson Inc. (Consultant), effective November 1, 2000, this Supplemental Letter Agreement dated May 20, 2019 authorizes and describes the scope, schedule, and payment conditions for Consultant's work on the Project described as: **Design Services – CTH GG Water Main Extension, 140th Street to Peninsula Road.**

Client's Authorized Representative: Jeremiah Wendt, Director of Public Works

Address: 156 East First Street
New Richmond, WI 54017

Telephone: 715.246.4268 **e-mail:** jwendt@newrichmondwi.gov

Project Manager: David F. Simons, P.E.

Address: 156 High Street, Suite 300
New Richmond, WI 54017

Telephone: 715.861.4870 **e-mail:** dsimons@sehinc.com

Scope: The Basic Services to be provided by Consultant as set forth herein is provided subject to the Master Agreement and any Exhibits attached to this Agreement.

General design tasks include project management, final design, project specifications, quantities, cost estimates, bidding documents, bid advertising and opening, and DNR water extension permit. Specific scope of work and assumptions are listed below.

Base Scope of Work – Design Services for CTH GG Water Main Extension, East of 140th Street

The project consists of extending 12-inch water main along CTH GG for 2,700 lineal feet, starting at 140th Street and extending east to Peninsula Road. The water main will be constructed in conjunction with the County's reconstruction of CTH GG in 2020, although the water main work will be a separate City project.

Since the County's GG repaving project includes the reconstruction of the 140th Street intersection, the water main will be stubbed to the west side of the intersection and capped. At some point in the future, the water main is planned to be extended west of 140th Street along CTH GG to connect to the existing water main located at the entrance to the Paperjack Elementary School.

The water main east of 140th Street is planned to be installed down CTH GG, either under the pavement or under the paved shoulder. This will be done after the County pulverizes CTH GG, but before repaving. Water services are planned to be installed to the right-of-way at all homes along the project to allow for potential future connections to the homes.

Because the City's water main project is a utility project and involves no new pavement, it is assumed that the project will be exempt from City and DNR storm water requirements. In addition, a DNR NOI will not be required, because the disturbance area will be covered under the County's NOI for the roadway project.

The water main work will be coordinated with the County's road project such that the water main will be installed after the County sets up their traffic control and after the pavement surface is pulverized, but prior to the placement of new pavement. As such, the basic traffic control plan will be designed and bid by the County. However, any additional traffic control required for the water main work (i.e., flagging for local traffic, etc.) will

be included in the City's project. Similarly, the basic restoration work (turf, pavement, etc.) will be part of the County's project, but any additional restoration that may be required beyond what the County would otherwise have to do would be included in the City's project.

Since the water main will be installed in the existing road bed, it is assumed that any poor soils were already removed as a part of previous road construction, and no soil borings are being taken as part of the City's utility project. Any soil borings that were taken as part of the County's project will be reviewed if available.

Assumptions:

- Assumes all work under this design contract is completed in 2019, and project is constructed in 2020.
- Assumes County's topographic survey of corridor will be provided for City's use for design of watermain
- Does not include construction engineering services (separate proposal)
- Does not include permit fees (City to pay any permit fees directly)
- Advertising costs not included (City to pay directly)
- Attendance at up to 1 public informational meeting is included
- Soils exploration is not included
- No boundary surveys, easements, right-of-way plats or acquisition services are included
- No wetland delineations or wetland permitting is included
- Does not include any St. Croix County permit applications
- Does not include WDNR NOI stormwater permit application (work will be permitted as part of St. Croix County's project)
- Assumes construction will be done just prior to the County's road grading work, under County's traffic control plan
- Fire flows to be performed by City staff and provided to SEH for design purposes
- Does not include hydraulic water system modeling
- Does not include sanitary sewer or other utility design, or any trail design

Schedule: Work will begin immediately upon receipt of a signed contract, and a completion schedule will be developed jointly with the City.

Fees: The total design fee for the specific Base Scope of Work listed herein is estimated to be **\$23,500** including expenses and equipment. This amount will be considered a not-to-exceed fee for the specific base scope of work listed herein.

The payment method, basis, frequency and other special conditions are set forth in the Master Agreement. Work will be billed hourly in accordance with Exhibit A-1 of the Master Agreement. Additional items requested by the City which are outside the base scope of work as specifically listed herein shall be invoiced on a time and materials basis, plus expenses, over and above the base price as listed above.

Other Terms and Conditions: Other or additional terms contrary to the General Conditions that apply solely to this project as specifically agreed to by signature of the Parties and set forth herein: None.

Short Elliott Hendrickson Inc.

City of New Richmond

By: David F. Simons
David F. Simons, PE
Title: Office Manager | Principal

By: _____
Title: _____

CTH GG Water Main Extension
Open cut in roadway east of 140th Avenue
New Richmond, WI
5/20/2019

Item No.	Item	Unit	quantity	Unit Price	total price
01 55 25.1	Maintenance of Traffic	LS	1	\$7,500.00	\$7,500.00
01 71 13.1	Mobilization	LS	1	\$7,500.00	\$7,500.00
02 41 33.1	Remove Asphalt Pavement	SY	350	\$3.00	\$1,050.00
02 41 33.2	Remove Asphalt or Concrete Driveway	SY	250	\$3.00	\$750.00
02 41 33.3	Remove Concrete Curb and Gutter	LF	100	\$2.00	\$200.00
02 41 33.4	Remove Culvert Pipe	LF	200	\$5.00	\$1,000.00
31 23 10.1	Common Excavation (EV, P)	CY	200	\$9.00	\$1,800.00
31 23 33.2	Exploratory Excavation	Each	2	\$100.00	\$200.00
31 25 10.1	Tracking Pad	Each	2	\$650.00	\$1,300.00
31 25 10.3	Inlet Protection, Type C	Each	2	\$50.00	\$100.00
31 25 10.3	Temporary Ditch Check (Bio Roll)	LF	50	\$10.00	\$500.00
31 25 10.4	Silt Fence Delivered, Maintained and Installed	LF	200	\$1.75	\$350.00
31 25 10.5	Erosion Mat Class I, Type A	SY	500	\$2.00	\$1,000.00
31 25 10.8	Culvert Protection	Each	2	\$50.00	\$100.00
32 01 16.1	Salvage, Stockpile and Replace Pulverized Base (CV)	CY	850	\$14.00	\$11,900.00
32 11 26.1	Crushed Aggregate Base Course, 1-1/4-inch	Ton	150	\$15.00	\$2,250.00
32 12 28.1	Asphaltic Pavement, Type 5LT	Ton	75	\$90.00	\$6,750.00
32 12 28.4	Adjust Existing Gate Valve Box	Each	2	\$180.00	\$360.00
32 12 28.6	Adjust Existing Manhole Casting	Each	1	350.00	\$350.00
32 12 50.1	Saw Cut Pavement	LF	100	\$2.00	\$200.00
32 15 10.1	Crushed Aggregate Base Course, 3/4 inch	Ton	50	\$16.00	\$800.00
32 16 30.1	Concrete Curb and Gutter, 30-inch Type D	LF	50	\$13.00	\$650.00
32 18 42.1	Concrete Sidewalk or Driveway, 6-inch	SF	200	\$5.00	\$1,000.00
32 18 42.2	Curb Ramp Detectable Warning Field	SF	64	\$50.00	\$3,200.00
32 92 12.1	Turf Establishment	SY	8,667	\$4.50	\$39,001.50
33 11 00.1	Corporation Stop	Each	17	\$150.00	\$2,550.00
33 11 00.2	Curb Stop and Box	Each	17	\$225.00	\$3,825.00
33 11 00.3	1-inch Copper Water Service	LF	561	\$28.00	\$15,708.00
33 11 00.4	12-inch DIP Water Main	LF	2,750	\$65.00	\$178,750.00
33 11 00.5	8-inch DIP Water Main	LF	40	\$45.00	\$1,800.00
33 11 00.6	6-inch DIP Water Main	LF	150	\$45.00	\$6,750.00
33 11 00.7	Water Main Fittings	LB	1,309	\$7.00	\$9,163.00
33 11 00.8	12-inch Gate Valve w/Box	Each	5	\$3,500.00	\$17,500.00
33 11 00.9	8-Inch Gate Valve w/Box	Each	1	\$1,800.00	\$1,800.00
33 11 00.10	6-Inch Gate Valve w/Box	Each	7	\$1,200.00	\$8,400.00
33 11 00.11	Fire Hydrant	Each	7	\$3,500.00	\$24,500.00
33 11 00.12	Connect to Existing Water Main	Each	1	\$1,000.00	\$1,000.00
33 11 00.18	Insulation 2-Inch	SF	500	\$2.00	\$1,000.00
34 41 40.3	Salvage and Reinstall Sign	Each	3	\$200.00	\$600.00
Total					\$363,158
10% Contingency					\$36,316
15% Engineering					\$54,474
Total					\$453,947