

**AGENDA**  
**UTILITIES SERVICE BOARD MEETING**

City of Bloomington Utilities  
600 E. Miller Dr.  
Bloomington, Indiana 47401

Jean Capler, President  
Amanda Burnham, Vice President  
Jason Banach  
Julie Roberts  
Jeff Ehman  
Megan Parmenter  
Jim Sherman  
Jim Sims, ex-officio  
Scott Robinson, ex-officio

Tuesday, January 19, 2021

**4:00 P.M. Finance Subcommittee Meeting**

- **Sherman**
- **Burnham**
- **Parmenter**

- I. Call to Order
- II. Discussion of 2021 Cost-of-Service Study-Vic Kelson
- III. Petitions and communications\*
- IV. Adjournment

\* Brief public comment will be limited to 5 minutes per person.

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Tuesday, January 19, 2021  
**5:00 P.M. Regular Meeting**

- I. Call to Order
- II. Approval of the Minutes of Previous Meetings (January 4)
- III. Approval of the Claims
  - a. Payables Invoices
  - b. Standard Invoices
  - c. Utility Bills
  - d. Wire Transfers
  - e. Customer Refunds
- IV. Approval of Consent Agenda (Total \$14,522.78)
  - a. Terminix, \$4,500.00, Pest control at Dillman WWTP
  - b. Terminix, \$5,000.00/year, On-call services
  - c. Terminix, \$392.40, Pest control at Blucher Poole WWTP
  - d. Perfect Power, Inc., \$7,249.98, Annual preventative maintenance on (UPS) units
  - e. Hollers Welding, \$8,500.00, Welding repairs on rotary screen housing at Dillman WWTP
  - f. Miller Pipeline, (\$35,919.60), Change order #1 for 2019 & 2020 Sewer Rehabilitation
  - g. Arus Andritz-Ruthner, Inc., dba, Andritz Separation, Inc., \$24,800.00, Service work for Komline belt presses at Blucher Poole WWTP
- V. Request for Approval of Resolution 2021-01, Recommending the Water Rate Case and Form of Ordinance to City Council – Vic Kelson
- VI. Old Business
- VII. New Business
- VIII. Subcommittee Reports
- IX. Staff Reports
- X. Petitions and Communications\*
- XI. Adjournment

\*Public Comment will be limited to 5 minutes per person

## UTILITIES SERVICE BOARD MEETING

01/04/2021

***Utilities Service Board meetings are recorded and are available during regular business hours in the office of the Director of Utilities.***

Board Vice President Capler called the regular meeting of the Utilities Service Board to order at 5:00 p.m. The meeting was held via Zoom and Facebook Live.

Board members present: Jim Sherman, Jason Banach, Jean Capler, Megan Parmenter, Jeff Ehman, Julie Roberts, Amanda Burnham, Jim Sims (ex-officio), and Scott Robinson (ex-officio).

Staff present: Vic Kelson, Laura Pettit, Holly McLauchlin, LaTreana Teague, Chris Wheeler, Brandon Prince, Brad Schroeder, Jane Fleig, James Hall, Tom Axsom, Nolan Hendon, and Missy Waldon.

### APPOINT ROLES FOR 2021

Board member Capler called for nominations for President and Vice President. Capler nominated herself for President, and board member Sherman nominated board member Burnham for Vice President.

Sherman moved and board member Roberts seconded the motion to approve the nominations. Motion carried, 7 ayes.

### MINUTES

***Sherman moved and Board member Parmenter seconded the motion to approve the minutes of the December 17 meeting. Motion carried, 7 ayes.***

### CLAIMS

***Sherman moved and Parmenter seconded the motion to approve the payables claims as follows:*** Vendor invoices submitted included \$82,359.59 from the Water Utility, \$400.00 from the Hydrant Meter fund, \$142,398.08 from the Wastewater Utility, and \$6,755.70 from the Stormwater Utility.

***Total Claims approved: \$231,913.37. Motion carried, 7 ayes.***

***Sherman moved and Parmenter seconded the motion to approve the standard claims as follows:*** Vendor invoices submitted included \$12,117.18 from the Water Utility, and \$18,175.78 from the Wastewater Utility.

***Total Claims approved: \$30,292.96. Motion carried, 7 ayes.***

***Sherman moved and Parmenter seconded the motion to approve the utility claims as follows:*** Utility invoices submitted included \$59,433.21 from the Water Utility, and \$79,895.57 from the Wastewater Utility.

***Total Claims approved: \$139,328.78. Motion carried, 7 ayes.***

***Sherman moved and Parmenter seconded the motion to approve the wire transfers, fees, and payroll in the amount of \$367,350.26. Motion carried, 7 ayes.***

***Sherman moved and Parmenter seconded the motion to approve the customer refunds as follows:*** Customer refunds submitted included \$699.30 from the Water Fund and \$3,897.11 from the Wastewater Fund.

**Total Claims approved: \$4,596.41. Motion carried, 7 ayes.**

## **CONSENT AGENDA**

CBU Director Vic Kelson presented the following items recommended by staff for approval:

- Genesis Environmental Solutions, Inc., \$5,370.00, Inspection of seven (7) aboveground storage tanks
- Control Freaks Consulting, LLC, \$3,496.00, Purchase and installation of ultrasonic level transmitter/sensor at Monroe WTP
- Control Freaks Consulting, LLC, \$3,500.00, Second amendment to agreement for SCADA upgrades
- Johnson Controls Fire Protection, \$1,760.00, Replacement of riser placards on fire protection system at the Utilities Service Center

**As no items were removed from the Consent Agenda by the Board, agreements approved. Total contracts approved: \$14,126.00.**

## **REQUEST FOR APPROVAL OF RESOLUTION 2020-10, ROUNDING UP AND DONATION PROGRAM FOR THE LAKE MONROE WATER FUND STEERING COMMITTEE**

Kelson presented a revised resolution that was initially taken before the board at the December 7, 2020 USB meeting. The purpose of this resolution is to offer customers the opportunity to contribute to the long-term viability of Lake Monroe as a water supply by making voluntary donations. The money would be kept separately and put into the water fund. It would be available for the Water Fund Steering Committee to distribute to organizations that would be doing watershed restoration and other projects.

City Attorney Wheeler explained that the revision to the resolution was made to ensure the program is operational before offering support to ensure that there is an entity to receive any funds that come in.

Burnham asked if donors will be kept anonymous. Wheeler responded that the language is not in this resolution and that the language for the program and its implementation would need to be established. The board would be presented with that language and details before the program starts.

Sherman asked if the opportunity to round up would appear on the monthly bill. Wheeler said that he is unsure if it would entirely be available through billing or other options.

Sherman also asked about those who pay their bill from their checking account. Kelson answered customers could be given the option to sign up and add a predetermined amount to their bill.

Board member Ehman asked if there have been projections of revenue streams for this type of initiative. Kelson said this initiative is an experiment and there is no current knowledge of how many people are interested.

Capler clarified point #1 in the Resolution, “The Board hereby authorizes CBU to create a rounding up and donation program (hereinafter the “Program”) that provides CBU customers the opportunity to voluntarily round up their total monthly bill to the nearest whole dollar and/or to make other donations”, and asked if a customer has the option of rounding up and also contribute additional money. Kelson confirmed the clarification. Wheeler said that customers could have the flexibility to donate, make a one-time donation, choose a time limit, or terminate at-will.

Capler asked if the marketing and education of this program will be organized by the non-profit board or CBU. Kelson said CBU would do a bill announcement periodically, or once a year as a reminder. That is an opportunity for the Water Fund Steering Committee because they are more connected to the customer base. CBU is providing the vehicle where customers can donate, however, CBU is not the fundraiser.

The board recognized Mary Madore of Friends of Lake Monroe to add public comment. Madore thanked CBU for funds that have allowed Friends of Lake Monroe to hire Maggie Sullivan as Watershed Coordinator. Madore asked if there are funds available to help the Friends of Lake Monroe, if they apply for a second grant, to develop the watershed plan. They are receiving scientific data where they should pinpoint work to make necessary corrections and would like follow-up funds to work with the additional data. Kelson said the Water Fund Steering Committee would be able to make contributions to projects of their choosing.

***Roberts moved, Parmenter seconded the motion to approve Resolution 2020-10. Motion carried, 7 ayes.***

## **REQUEST FOR APPROVAL OF AGREEMENT WITH MILESTONE CONTRACTORS FOR THE JORDAN RIVER STORM CULVERT RECONSTRUCTION**

CBU Engineer Fleig presented an agreement to award Milestone Contractors with the contract for the Jordan River storm culvert project. The USB approved Resolution 2020-11 to accept the bid at the December 7 meeting. The total contract amount is \$13,184,000.00. The traffic signal at Third and Lincoln is included in the project and will be reimbursed by the COB Public Works department. That bid amount is currently \$228,000.00 and it will be paid once CBU enters into a MOU with Public Works. CBU is working with Milestone in exploring value engineering ideas for potential cost savings.

Ehman asked how much uncertainty is there in a project like this relative to a new construction project where a storm sewer is not being refurbished. Also, how much money or what percentage has been set aside for contingencies. Fleig answered there is a \$200,000.00 contingency included in this bid.

Roberts asked what is the potential start date. Fleig said Milestone would like to begin as soon as February.

Board member Robinson asked if the project includes the temp repair at Third St. Fleig confirmed that it does include the section south of Third St. to the area of Fourth and Grant.

***Roberts moved, Parmenter seconded the motion to approve the agreement with Milestone Contractors. Motion carried, 7 ayes.***

#### **REQUEST FOR APPROVAL OF AGREEMENT WITH WESSLER ENGINEERING, INC. FOR DESIGN AND BID PHASE SERVICES AT MONROE WATER TREATMENT PLANT**

Assistant Director of Engineering Schroeder presented an agreement with Wessler Engineering. CBU has finished an algaecide study for the Monroe plant where we were feeding algaecide to kill algae and reduce the solids flow. The study was successful and IDEM has accepted using this method going forward. Last year a temporary system was used, and now a permanent system needs to be built. Currently, the temporary system includes using totes between two pumps in the intake. The feed system for sodium permanganate will be reset in this project as well. The contract amount is \$104,000.00. Design and construction will be completed this year.

***Roberts moved, Parmenter seconded the motion to approve the agreement with Wessler Engineering. Motion carried, 7 ayes.***

#### **REQUEST FOR APPROVAL OF AGREEMENT WITH ELECTRIC PLUS, INC. FOR LED LIGHTING CONVERSION AT THE UTILITIES SERVICE CENTER**

Conservation and Energy Resource Manager Hendon presented the board with an agreement with Electric Plus for a complete LED conversion at the Service Center. The conversion will include the lighting inside and outside of the building. The amount of the agreement is \$34,391.00.

***Roberts moved, Parmenter seconded the motion to approve the agreement with Electric Plus. Motion carried, 7 ayes.***

#### **REQUEST FOR APPROVAL OF AGREEMENT WITH 120WATER AUDIT, INC. FOR COVID WASTEWATER TESTING**

Assistant Director of Environmental Programs Hall presented an agreement with 120Water Audit for COVID wastewater testing and monitoring for 9 months at Blucher Poole and Dillman Wastewater treatment plants. This agreement is to continue the COVID sampling at the wastewater plants by taking one sample a week from Dillman and Blucher on influent water. CBU could end it early, depending on the data reported within the community. The project includes analysis and storage, and 120Water's software. The total amount is \$34,488.00.

Roberts asked if CBU is only sampling at the plants and if CBU had previously conducted sampling at the lift stations. Hall confirmed that sampling was done at the plants and lift stations when CBU was part of the Indiana Finance Authority funded project. The project is over, and CBU has reduced sampling to the wastewater treatment plants. Roberts asked if the hospital has expressed an interest in assisting the sampling. Kelson said that CBU can speak with the health department and IU about assistance.

Burnham noted the funding source has an additional category, S20-COVID, and asked if it is being tracked. Hall explained that it is a project number and CBU is tracking all COVID-related expenses for a possible reimbursement. Kelson added it may be able to be reimbursed through CARES Act.

Burnham asked for confirmation to the public that COVID is not being put in the water systems. Kelson confirmed that CBU is not collecting the virus but strands of RNA that are related to the presence of the virus. A person will not get COVID by collecting the sample.

Capler asked, in terms of what the data will be used for, is the data going to be documentation of virus levels in the influent water, or is it going to have any predictive heads up to health officials that numbers are on the rise. She also asked if once a week testing was enough. Kelson said that CBU started sampling before IFA funded the program, it is being continued to ensure there are no gaps in the records.

***Roberts moved, Parmenter seconded the motion to approve the agreement with 120Water Audit. Motion carried, 7 ayes.***

## **REQUEST FOR APPROVAL OF FIRST AMENDMENT TO THE AGREEMENT WITH POTOMAC ELECTRICAL SERVICES, DBA ELECTRICAL MAINTENANCE AND TESTING**

Wheeler presented an amendment for the repair of GE Magne-Blast breakers at Dillman wastewater treatment plant. The amendment expands the scope of work and extends the contract expiration date to June 30, 2021, and the work completion date to April 30, 2021. The amendment is for \$5,165.00 for a new not-to-exceed contract amount of \$34,565.00.

***Roberts moved, Parmenter seconded the motion to approve the amendment to the agreement with Potomac dba Electrical Maintenance and Testing. Motion carried, 7 ayes.***

**OLD BUSINESS:** None

**NEW BUSINESS:** None

**SUBCOMMITTEE REPORTS:** Sherman reported the Finance Subcommittee met to hear a presentation from CBU staff on the 2021 water rate case and cost of service

study. The next meetings will be Monday, January 11 at 4:00 pm, and Monday, January 19, at 4:00 pm.

**STAFF REPORTS:**

- Kelson reported that CBU staff will hold an open house on Zoom for the public to hear details regarding the rate case and study. The Q&A will be held on Thursday, January 7 from 12:00 pm-1:30 pm
- Kelson welcomed a new ex-officio board member, Scott Robinson
- Kelson announced the retirement of T&D employee, Ed Sherfield. Mr. Sherfield had worked for CBU for 44 years.

**PETITIONS AND COMMUNICATIONS:** Maggie Sullivan , Watershed Coordinator with the Friends of Lake Monroe announced their excitement for the donation program. They are about halfway through their project and starting to identify critical area projects where water quality can be improved. The funds will use the watershed management plan to guide what projects will get funded. Friends of Lake Monroe plans to give the board an update at a future USB meeting and explore options to reallocate CBU-provided funds to meet additional needs.

**ADJOURNMENT:** Roberts moved to adjourn; the meeting was adjourned at 5:51 pm.

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Julie Roberts, President

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DATE



City of Bloomington Utilities  
Accounts Payable G/L Distribution Report  
Paydate: 01/22/21

Payables G/L Date: 12/29/20

Vendor	Invoice No.	Invoice Description	Invoice Amount	Water O&M	Wastewater O&M	Wastewater Construction	Wastewater Sinking	Stormwater O&M
Acuity Specialty Products, INC (Zep Sales)	9005760165	PUR20-413 Big Orange - E 1 cs of 12	226.57	90.63	135.94			
Arcadis U.S., INC	34207955	W19-4308 - Monroe WTP Process Optimization to 12/20/20 - ENG	2,216.00	2,216.00				
Astbury Gabriel Corp (ESG Laboratories)	20020976	Testing -Digester grab, final effluent, raw influent 12/22/20-DR	697.00		697.00			
B L Anderson Co., INC	PPS-10194	MN20-508 Chemical pump heads,trouble shooting pump&level issues	919.48	919.48				
Big Dipper Building Services, LLC (Overhead Door)	44189	PUR20-484 Replace bad outside switch, broken wire, lube&adjust	393.00	157.20	235.80			
BOKF, NA	ACCT20-192	Admin Fee-Sewage Works Rev Bonds 2020 - ACCT20-192	600.00				600.00	
Brenntag Mid-South, INC	BMS759038	Sodium hydroxide - 11.5224 @ 11.5224 delivered 12/22/20 - MN	5,346.39	5,346.39				
BSA Environmental Services, INC	COB 20-24	ENV20-263 7 Phytoplankton analyses with biovolume	1,029.00	1,029.00				
BSA Environmental Services, INC	COB 20-25	ENV20-270 7 Phytoplankton analyses with biovolume	1,029.00	1,029.00				
CDW, LLC	5945902	Otterbox Defender Cases for ipads(3) Engineering Staff #2010709B	222.00	88.80	133.20			
Central Supply Company, INC	S100460057.001	DM20-244 Piping for the sample line in the contact tank Baffle	234.77		234.77			
Cintas First Aid & Safety #2	8404928322	Restock first aid cabinet @ Blucher - 12/11/20 - BP20-173	31.45		31.45			
Cintas First Aid & Safety #2	8404941089	Restock first aid cabinet @ Monroe WTP 12/25/20 - MN20-538	51.11	51.11				
Core & Main, LP	N262125	PUR20-394 Meter pit 20"x24", Meter pit frame and lid #20 w/bolt	2,750.00	2,750.00				
Core & Main, LP	N376344	PUR20-431 Brass angle yoke valve 1", brass ball corp stop 2"	3,264.36	3,264.36				
Core & Main, LP	N478775	PUR20-394 Meter pit 20"x24" white heavy duty notched meter pit	950.00	950.00				
Core & Main, LP	N478775 Credit	Credit for 25 20x24 Fratco Plas meter tile notched - PUR20-394	(1,175.00)	(1,175.00)				
Creative Graphics, INC (dba Baugh Enterprises)	8994	Business cards for Rick Tort Claims - ADMIN20-075	60.00	24.00	36.00			
Creative Graphics, INC (dba Baugh Enterprises)	9043	Door hangers (3,000) for hydrant flushing - ENV20-277	375.00	375.00				
Crider And Crider, INC	S18-6211 #17	S18-6211- IU Health Blgtn Hospital Offsite Sewer to 12/15/20-ENG	208,366.78		208,366.78			
E&B Paving, INC	30035678	Asphalt - Storm @ Thornton - 12/11/20 - SW, TD	165.08					165.08
Eco Logic, LLC	4671	D20-110 - Wapahoni / Weimer Dam-Data collection - ENG	3,150.40					3,150.40
Environmental Laboratories, INC	20325166	Testing-Iron, manganese for drinking water - DL20-114	84.00	84.00				

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Eurofins Eaton Analytical, INC	S381964	Metals analysis by ICP on deionized water on 12/22/20 - DL20-113	72.00	72.00				
Eurofins Eaton Analytical, INC	S382147	TTHM & HAA5 analysis - collected 12/22/20 - DL20-109	1,710.00	1,710.00				
Everett J Prescott, INC	5803082	TD20-481 10 Smart gateway wall mounts for pressure profile MS	3,500.00	1,400.00	2,100.00			
Everett J Prescott, INC	5806024	TD20-484 Replacement battery model #6502 MS	390.00	156.00	234.00			
Fastenal Company	INBLM221781	Restock supplies in machine - 12/07/20 - PUR	199.71	99.02	100.69			
Fastenal Company	INBLM222069	Restock supplies in machine - 12/31/20 - PUR	267.75	104.08	163.67			
Fastenal Company	INBLM222076	Restock supplies in machine - 12/31/20 - PUR	109.00	61.72	47.28			
First Financial Bank / Credit Cards	ADMIN20-070	ADMIN20-070 AWWA membership for Bryan Rafano 12/17/20-8/31/22	65.00	65.00				
First Financial Bank / Credit Cards	ENG20-102	ENG20-102 1 Year subscription to ENR for Nancy Axsom	108.00	43.20	64.80			
First Financial Bank / Credit Cards	ENV20-174C	ENV20-174 Credit for AWWA Source of Water Symposium over pmt	(150.00)	(150.00)				
First Financial Bank / Credit Cards	ENV20-256	ENV20-256 Hazardous warning label 6"x6" Empty	26.37	10.55	15.82			
First Financial Bank / Credit Cards	ENV20-260	ENV20-260 Indiana Pesticide Applicator Core Training Manual	51.73					51.73
First Financial Bank / Credit Cards	ENV20-261	ENV20-261 AWWA Water Quality & Infrastructure Virtual Summit	195.00	195.00				
First Financial Bank / Credit Cards	ENV20-267	ENV20-267 Basic Mediation Training for Kriste Lindberg	260.00					260.00
First Financial Bank / Credit Cards	ITS 2010863A	Best Buy Purchase for VIZIO 70" TV & Wall Mount for T&D-2010863A	849.98	339.99	509.99			
First Financial Bank / Credit Cards	MN20-518	MN20-518 On-line class Water Treatment Plant Operation Vol 1	50.00	50.00				
First Financial Bank / Credit Cards	MN20-522	MN20-522 On-line class/Wastewater Treatment for Shawn Medsker	225.00	225.00				
First Financial Bank / Credit Cards	MN20-528	MN20-528 Small Water System Operation and Maintenance for Sara T	50.00	50.00				
First Financial Bank, N.A.	S18-6211 #17	S18-6211-Retainage - IU Health Hospital Sewer to 12/15/20-ENG	10,049.03		10,049.03			
First Financial Bank, N.A.	S20-6405 #7	S20-6405-Retainage-Dillman WWTP Upgrade & improv to 12/20/20-ENG	127,031.80		127,031.80			
Fisher Scientific Company, LLC	4879519	pH 7 buffer, pH meter, polyfoam mailers, 4 cs lab soap DL20-101	1,966.46		1,966.46			
Fisher Scientific Company, LLC	5906195	Thermal paper autoclave 10 pk - DL20-101	160.51		160.51			
Frakes Engineering, INC	31135	DM20-243 Calibrate air flow meters on all aeration tanks&digest	825.50		825.50			
Freedom Business Solutions, LLC	12011	HP Laser Jet Pro 400 for T Blevins - #2011126	98.00	39.20	58.80			
Frost Brown Todd LLC	0138907.0738150	Professional SVS - 2020 Wastewater Bond - ACCT20-191	7,500.00			7,500.00		

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George E Booth Co., INC	1021281	MN20-523 24 5 NTU standard for calibrating our filter effluent	1,224.00	1,224.00				
Greeley And Hansen, LLC	INV-0000666133	S19-6307 - Dillman WWTP Upgrades/Expansion to 01/01/21 - ENG	90,728.71		90,728.71			
Harrell Fish, INC (HFI)	W62441	BP20-144 East belt press piping repair&repair 3" copper water	4,450.00		4,450.00			
Hawkins Bailey Warehouse, INC	00037835	DR20-092 S20-COVID Can liners,tissue 2-ply, disinfecting wipes	369.56		369.56			
Hawkins Bailey Warehouse, INC	00037969	DS20-096 S20-COVID 10 Nitrile powder free 5 mil gloves Med	199.90		199.90			
HD Supply Facilities Maintenance, LTD (USABlueBook	438456	DM20-229 Float switch for controlling clarifier drain sump pump	205.16		205.16			
HD Supply Facilities Maintenance, LTD (USABlueBook	441598	MN20-511 Corrosion resistant sump pump	1,303.44	1,303.44				
HD Supply Facilities Maintenance, LTD (USABlueBook	441858	ENV20-266 Hydrant flushing equipment	790.83	790.83				
HD Supply Facilities Maintenance, LTD (USABlueBook	447606	ENV20-269 Hose Valve Assembly for Hydrant flushing	217.00	217.00				
HD Supply Facilities Maintenance, LTD (USABlueBook	448992	BP20-171 PH Buffers and PH storage solution for lab use	461.97		461.97			
HD Supply Facilities Maintenance, LTD (USABlueBook	449741	DR20-026B02 S20-COVID N95 Disposable resp. w/exhale valve 10/pk	63.10		63.10			
HD Supply Facilities Maintenance, LTD (USABlueBook	455259	Credit memo for 1 returned gate valve - ENV20-266	(114.95)	(114.95)				
Hoosier Equipment Service INC	12187	ENV20-257 Aboveground storage tank removal from site DR	3,590.00		3,590.00			
Hoosier Workwear Outlet, INC	360018	Rubber boots (1 Pair) for R Hoene truck #626 - TD20-522	129.99	52.00	71.49			6.50
Hoosier Workwear Outlet, INC	360019	Rubber boots (1 Pair) for B Douglas truck #626 - TD20-520	159.99	64.00	87.99			8.00
Hydra-Stop, LLC	41508	PUR20-396 6" Insta-valve body CS FLG, 6" Open left cartridge	7,238.00	7,238.00				
IDEXX Laboratories, INC	3075821536	DL20-104 Colilert media, quanti-tray 2000 97 wells	2,416.96		2,416.96			
Indiana Geographic Information Council, INC	532 Utilities	ADMIN20-072 Memberships for C Winkle, T Zimmerman 12/3/2021	150.00	60.00	90.00			
Indiana Precast, INC	2027857	PUR20-435 W20-4413 48" Flattop w/24" hole, 48" Tall Doghouse	1,008.00	1,008.00				

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Indiana Water Environment Association, INC (IWEA)	062074	ADMIN20-069 IWEA Conference 12/1/20 For Dillman employees	1,630.00		1,630.00			
IU Health OCC Health Services	00112188-00	DS DOT Drug screen for 1 Blucher employee - 11/09/20 - BP20-175	47.00		47.00			
IU Health OCC Health Services	00112417-00	Audio testing for 1 Blucher employee - 11/12/20 - BP20-175	34.00		34.00			
IU Health OCC Health Services	00112570-00	Audio testing for 5 Blucher employees-11/12-11/17/20 - BP20-175	170.00		170.00			
IU Health OCC Health Services	00113012-00	ENV20-274 Fit testing physical for respirator Craig Abbott	20.00	8.00	12.00			
IU Health OCC Health Services	00113013-00	ENV20-274 Fit testing physical for respirator Samuel R Arthur	20.00					20.00
IU Health OCC Health Services	00113014-00	ENV20-274 Fit testing physical for respirator James C Hall	20.00	8.00	12.00			
IU Health OCC Health Services	00113015-00	ENV20-274 Fit testing physical for respirator Nathan A Herr	20.00	8.00	12.00			
IU Health OCC Health Services	00113018-00	ENV20-274 Fit testing physical for respirator Tyler Steury	20.00	20.00				
IU Health OCC Health Services	00113019-00	ENV20-274 Fit testing physical for respirator Kevin White	20.00		20.00			
JCI Jones Chemicals, INC	841453	Sodium hypochlorite - 4,777 @ .7180 delivered 12/21/20 - MN	3,429.89		3,429.89			
JJ's Concrete Construction, LLC	64957	Concrete - Water @ Black Lumber Co on Henderson - 12/21/20 - TD	592.00	592.00				
John Deere Financial (Rural King)	JRNL#C01817/62	Fill propane tanks used to thaw meters - MS - TD20-519	74.95	74.95				
Kleindorfer Hardware & Variety	12/31/20 CBU	Misc parts & supplies - 12/01-12/18/20 - TD, MN, MS, BP, DR, SW	1,804.48	1,372.80	429.98			1.70
Koorsen Fire & Security, INC	5260106	Fire alarm monitoring @ Washington St Storage - 12/01-02/28/21-SC	85.07	34.03	51.04			
Koorsen Fire & Security, INC	5300384	Service call to repair panic button - 12/29/20 - PUR20-486	240.00	96.00	144.00			
M E Simpson Company, INC	36207	WS18-20601 - Large meter testing - 12/08-12/31/20 - TD	9,980.00	3,992.00	5,988.00			
Menards, INC	62166	Totes 15 gallon (5) for storage - MN20-534	53.94	53.94				
Menards, INC	62230	J-bolts, Cable, Primed pine wood - TD20-516	40.30	16.12	22.17			2.01
Menards, INC	62231	Flat washer 75pc #10 - TD20-516	1.09	.44	.60			.05
Monroe County Government	122020-COBU	Misc copies made - 11/13-11/16/20 - ENG	21.00	8.40	12.60			
Northern Safety Co., INC	904221615	PUR20-440 Hood, boots & elastic wrist disposable Coveralls 2XL	201.50	80.60	110.82			10.08
Northern Safety Co., INC	904240847	DR20-058BO S20-COVID Nitrile disposable 4 mil gloves Large	158.00		158.00			
Northern Safety Co., INC	904248341	DM20-236 Replacement pump kit for gas alert max XL II	202.76		202.76			

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Vendor	Invoice No.	Invoice Description	Invoice Amount	Water O&M	Wastewater O&M	Wastewater Construction	Wastewater Sinking	Stormwater O&M
Nugent, INC (Utility Supply Company)	1339828	PUR20-367 W20-4411 6" & 8" PVC gasket joint pipe blue	27,392.80	27,392.80				
Nugent, INC (Utility Supply Company)	1340138	PUR20-367 W20-4411 Misc parts	24,392.90	24,090.50				302.40
Nugent, INC (Utility Supply Company)	1340792	PUR20-367 W20-4411 Blue service tubing, 1" air release valve	455.60	455.60				
Nugent, INC (Utility Supply Company)	1341595	PUR20-367 W20-4411 Hydrant 5' Bury, 6" & 8" megalug, ball corp 1"	16,956.85	16,956.85				
Nugent, INC (Utility Supply Company)	1342597	PUR20-367 W20-4411 MJ Tee, MJ reducer, Bend MJ 6", Brass saddle	2,269.22	2,269.22				
Nugent, INC (Utility Supply Company)	1343875	PUR20-367 W20-4411 8x6 MJ reducer domestic, 20x24 plastic pit	455.31	455.31				
Nugent, INC (Utility Supply Company)	1344174	PUR20-367 W20-4411 Anchor coupling 8"x12" & 6"x12"	2,146.27	2,146.27				
Nugent, INC (Utility Supply Company)	1344588	PUR20-367 W20-4411 6x12 Hydrant coupling domestic	889.45	889.45				
Nugent, INC (Utility Supply Company)	1345409	PUR20-397 Tee WYE 8"x6", sewer pipe6", Tee WYE 8"x8"	3,279.49	2,492.04	787.45			
Nugent, INC (Utility Supply Company)	1345410	PUR20-430B Brass Angle Yoke Valve 1" comp x 1" meter yoke nut	1,955.00	1,955.00				
Nugent, INC (Utility Supply Company)	1346372	PUR20-367 W20-4411 Manhole lid (water)	98.29	98.29				
Nugent, INC (Utility Supply Company)	1346413	TD20-462 10" Dismantling joint, spool, 10" swing check valve	4,304.12	1,721.65	2,582.47			
O. W. Krohn & Associates, LLP	ACCT20-190	Professional SVS - 2020 Wastewater Bond - ACCT20-190	59,380.00			59,380.00		
Office Depot, INC	141903146001	Copy paper (12 cases) - PUR20-453	387.36	154.94	232.42			
Office Depot, INC	141903147001	Clipboard - PUR20-453	11.89	4.76	7.13			
Office Depot, INC	142176646001	Bankers boxes #789 (10 cs) - PUR20-456	318.20	127.28	190.92			
Office Depot, INC	142176646002	Weekly/monthly planner - PUR20-456	25.99	10.40	15.59			
Office Depot, INC	142176648001	Pilot V5 Gell roller refills (4 pk) - PUR20-456	10.36	4.14	6.22			
Office Depot, INC	142268175001	Ballpoint pens (60 pk) - ACCT20-180	5.80	2.32	3.48			
Office Depot, INC	143373665001	Retractable ball pens (1 box of 60) - ENV20-271	37.29	37.29				
Office Depot, INC	143373667001	Wall calendar 24x36 - ENV20-271	18.99	18.99				
Office Depot, INC	143423386001	Blue pens, black sharpies, red sharpies, highlighters ACCT20-183	20.54	8.22	12.32			
Office Depot, INC	143423387001	Pilot razor point red pens (1 dz) - ACCT20-183	19.49	7.80	11.69			
Office Depot, INC	143469769001	Calendars, pencils, pens - ENG20-101	72.38	28.95	43.43			
Office Depot, INC	143469770001	Calendars (2) - ENG20-101	39.98	15.99	23.99			
Office Depot, INC	143469771001	Weekly Planner - ENG20-101	25.99	10.40	15.59			
Office Depot, INC	143469772001	At a glance wall calendar - ENG20-101	15.99	6.40	9.59			
Office Depot, INC	143469773001	Page flags (2) - ENG20-101	6.18	2.47	3.71			
Office Depot, INC	143771899001	Adding machine tape (3 12 pks) - ACCT20-184	8.04	3.22	4.82			
Office Depot, INC	145033330001	Shipping tape, rubber bands - DR20-097	39.83		39.83			
Office Depot, INC	145108947001	Expanding file jackets (1 box) - ACCT20-186	49.99	20.00	29.99			

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Pace Analytical Services, INC	2050155837	Cyanide analysis by method 1677 for Dillman NPDES-DL20-102	125.00		125.00			
Pace Analytical Services, INC	2050156123	Low level mercury 1631, metals, grease @ Cook Poly ENV20-264	564.00		564.00			
Pace Analytical Services, INC	2050156603	Mercury testing by method 1631E @ Dillman WWTP - DL20-106	305.00		305.00			
Pace Analytical Services, INC	2050156627	Cyanide analysis by method 1677 for Dillman NPDES - DL20-107	125.00		125.00			
Pace Analytical Services, INC	2050156769	Analysis of Dillman Monitor Well for VOC, COC, ammonia DL20-105	1,811.00		1,811.00			
Pace Analytical Services, INC	2050157019	Low level mercury 1631, metals, grease @ Mon Co Residu ENV20-265	374.00		374.00			
Pace Analytical Services, INC	2050157146	Testing 200.8 MET ICPMS for drinking water - ENV20-273	55.00	55.00				
Paragon Micro, INC	S3303163	Wireless mouse & keyboard for T Blevins - #2011077	88.99	35.60	53.39			
Paragon Micro, INC	S3305477	Widescreen HD Video Webcam w/microphone for B Prince - #2011191	74.99	30.00	44.99			
Paragon Micro, INC	S4100095	Power BI Monthly Subscription - Microsoft CSP - #1907687	18.32	7.33	10.99			
Potomac Electrical Services, LLC (Potomac Testing)	119281-1/17665	DM20-212 Rehab 3 Magnablast breakers Dillman Sub Station	29,400.00		29,400.00			
Potomac Electrical Services, LLC (Potomac Testing)	120234-1/17454	DM20-175 6 Trip Devices for the sub station Magnablast Breaker	9,270.00		9,270.00			
Republic Services, INC	0694-002659294	Trash removal @ Monroe WTP - 12/1-12/31/20 - MN	104.45	104.45				
Republic Services, INC	0694-002659295	Trash removal @ Blucher Poole - 12/01-12/31/20 - BP	103.89		103.89			
Reycon Partners, LLC(Reynolds Construction, LLC)	S20-6405 #7	S20-6405 - Dillman WWTP Upgrade & improv to 12/20/20 - ENG	732,778.20		732,778.20			
Rogers Group, INC	0071180232	Stone #11 & #53 - Water & stock - 12/14-12/18/20 - TD	1,059.25	1,001.04	58.21			
Rogers Group, INC	0071180233	W20-4411 - Stone #11 & #53 - Stock - 12/15-12/18/20 - TD	511.80	459.64	52.16			
Rogers Group, INC	0071180234	Stone #11 & #53 - Water & stock - 12/15-12/16/20 - TD	433.49	230.67	202.82			
Rogers Group, INC	0071180235	Stone #53 - Water & stock - 12/15-12/17/20 - TD	636.06	360.91	275.15			
Rural Water Maintenance, INC	MN20-437 WO#	MN20-437 Replacement of septic bed system	18,975.00	18,975.00				
Shredding and Storage Unlimited, LLC	52954	On site document destruction - 12/16/20 - PUR19-522	105.00	42.00	63.00			
SSW Enterprises, LLC (Office Pride)	IN000526529	PUR20-451 WSD20-COVID Electrostatic disinfecting spray 7/19/20	475.00	190.00	261.25			23.75
SSW Enterprises, LLC (Office Pride)	IN000531462	Cleaning service @ Service Center - 12/01-12/31/20 - SC	3,053.04	1,221.22	1,831.82			

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Vendor	Invoice No.	Invoice Description	Invoice Amount	Water O&M	Wastewater O&M	Wastewater Construction	Wastewater Sinking	Stormwater O&M
SSW Enterprises, LLC (Office Pride)	IN000531463	Cleaning service @ Blucher Poole - 12/01-12/31/20 - BP	1,169.35		1,169.35			
SSW Enterprises, LLC (Office Pride)	IN000531465	Cleaning service @ Dillman WWTP - 12/01-12/31/20 - DR	1,189.63		1,189.63			
SSW Enterprises, LLC (Office Pride)	IN000531466	Cleaning service @ Monroe WTP - 12/01-12/31/20 - MN	1,169.48	1,169.48				
Standard and Poors, LLC (S&P Global Ratings)	11405955	Professional Services - 2020 Water Bond Refunding - ACCT20-189	27,000.00	27,000.00				
Stansifer Radio Co, INC	35646	Switch for drill press - DM20-187	8.70		8.70			
Stansifer Radio Co, INC	35825	Eagle timer for grit chamber @ Dillman - DM20-211	624.96		624.96			
State Of Indiana	12/31/20 CBU	Water usage - 12/01-12/31/20 - MN	13,681.14	13,681.14				
State Of Indiana	53-02 2020 4th	Solid waste quarterly fees - 4th qtr 2020 - DR	17.20		17.20			
State Of Indiana	ADMIN20-073	A-SO Application fee for Jason Wenning - ADMIN20-073	30.00	12.00	16.50			1.50
Sunset Hill Fence Co LLC	009896	TD20-406 Repair damaged fence @ Detention Pond-W 6th Street	725.00					725.00
Synchrony Bank	453456546464	TD20-497 37 gallon fuel transfer tank black steel for truck #626	299.91					299.91
Synchrony Bank	499957536486	DR20-091 Muck boots steel toe rubber work boots sizes 12	99.99		99.99			
Synchrony Bank	599783385686	TD20-513 3 Phase monitors for Lift Station stock	319.50		319.50			
Synchrony Bank	687937876537	DR20-093 Muck boots steel toe rubber work boots sizes 11	173.04		173.04			
Synchrony Bank	699357875633	DR20-093 Muck boots steel toe rubber work boots sizes 7	159.95		159.95			
Synchrony Bank	763468683549	DR20-091 Muck boots steel toe rubber work boots sizes 7	159.95		159.95			
Synchrony Bank	836434757394	PUR20-405B WSD20-COVID 3 Medify air MA-40 Air Purifier	761.00	304.40	418.55			38.05
Synchrony Bank	975955366794	DR20-091 Muck boots steel toe rubber work boots sizes 11	89.99		89.99			
TerraCycle US, INC (TerraCycle US LLC)	35630	ADMIN20-066 4 Latex/nitrile glove recycling boxes MN, DR, BP	1,028.00	342.67	685.33			
The Henry P Thompson Company	AR1/51029859	DM20-217 Custom parts for the rotary screen obsolete parts	14,745.82		14,745.82			
The Travelers Indemnity	11978	PUR20-475 Reimbursement for liability insurance Unit #693	7,994.11	3,197.64	4,796.47			
Tyco Fire & Security Mgmt ,INC (Johnson Controls)	87343806	PUR20-446 5-Year Inspection Sprinkler & Riser, Gauge replacement	1,725.00	690.00	1,035.00			
ULINE, INC	127138126	PUR20-432 Pallet rack add-on,cross bars,wire decking,bins,labels	1,084.71	433.88	650.83			
United Parcel Service, INC	0000430948520-2	Shipping charges - 12/18-12/23/20 - DL20-111 - LAB, TD	167.75	9.56	158.19			

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Utility Pipe Sales Co, INC	IN004596	PUR20-433 Brass adapt, bend 3/4 90^, elbow 1", ball valve2", tee	984.20	984.20				
Utility Pipe Sales Co, INC	IN004638	PUR20-433 Compression couplings 1.5" & 2" Hymax 2 long body	721.00	721.00				
Utility Pipe Sales Co, INC	IN004747	PUR20-433 2" Brass tee no lead, 2" ball corp stop	1,769.65	1,769.65				
VET Environmental Engineering, LLC	4788	W17-4113-Demolition for Griffy Water Plant 08/06-10/30/20 - ENG	56,610.62	56,610.62				
Victor H Wenning (VHW Engineering)	ENG20-103	2020 Inspection of Griffy Reservoir Dam #53-3 - ENG20-103	4,945.00	4,945.00				
Virtuoso Sourcing Group, LLC	28138	Collection agency fee - 12/18-12/21/20 - AR, ACCT	28.62	11.45	17.17			
Virtuoso Sourcing Group, LLC	28139	Collection agency fee - 12/18/21 - AR, ACCT	913.09	365.24	547.85			
W.W. Grainger, INC	9728382707	MN20-513 Aluminum oxide abrasive rolls 50grit & 220 grit 3 each	337.71	337.71				
W.W. Grainger, INC	9740235420	BP20-168 4 Regulator diaphragms for OS pumps	27.92		27.92			
W.W. Grainger, INC	9740235438	BP20-168 6 Regulator diaphragms for OS pumps	41.88		41.88			
W.W. Grainger, INC	9743627904	TD20-494 8 Tubular socket-mount heaters for Lift Station stock	190.40		190.40			
W.W. Grainger, INC	9744751315	DM20-245 Small vacuum, lamp removal tool, rain gauge	138.30		138.30			
W.W. Grainger, INC	9751954950	ENV20-262 87 gal Round recycling collection boxes aerosol cans	205.26	82.10	123.16			
Wessler Engineering, INC	36233	Audit validation of CBU's 2019 Awwa Water Audit - ADMIN20-035	1,982.50	1,982.50				
Wood Environment & Infrastructure Solutions	N12375284	D20-113 - Stormwater master plan through 12/25/20 - ENG	15,054.00					15,054.00
Young Trucking, INC	109607	Hauling sludge from Blucher Poole - 12/15-12/23/20 - BP, OP	2,051.84		2,051.84			
Young Trucking, INC	109608	Hauling sludge from Dillman WWTP - 12/14-12/23/20 - DR, OP	17,766.50		17,766.50			
Grand total:			1,643,803.61	258,627.98	1,297,575.47	66,880.00	600.00	20,120.16



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Vendor	Invoice No.	Invoice Description	Invoice Amount	Water O&M	Wastewater O&M	Stormwater O&M
Anne McDaniel	ENG20-105	S21-6501 -Easement for 2243 N Martha St - ENG20-105	3,756.00		3,756.00	
Eric & Katherine McIntosh	ENG20-106	S21-6501 - Temporary easement @ 2300 N Martha St - ENG20-106	1,591.00		1,591.00	
Freedom Business Solutions, LLC	12022	Cleaning & diagnostics of HP M401 printer for M. Waldon-#2011171	65.00	26.00	39.00	
Hoosier Workwear Outlet, INC	360072	Rubber boots for T Vaught truck #626 - TD21-004	139.99	56.00	76.99	7.00
Hoosier Workwear Outlet, INC	360077	Rubber boots for L Elkins truck #626 - TD20-521	129.99	52.00	71.49	6.50
John Deere Financial (Rural King)	JRNL#C15287/62	Gloves L & XL, mending plate, fasteners - ENV21-002	47.31			47.31
John Deere Financial (Rural King)	JRNL#C15426/62	Credit memo for returned straps & gloves - ENV21-002	(5.99)			(5.99)
Koorsen Fire & Security, INC	5309452	Fire alarm monitoring @ Service Center - 01/01-03/31/21 - SC	100.83	40.33	60.50	
Logical Concepts, INC (Omnisite)	75674	Monthly cellular fee for XR-50 Omni-Site - 01/01-01/31/21 - ENG	1,100.00		1,100.00	
Monroe County Government	ENG20-108	S21-6501 - Recording of 2 Easements for Martha St - ENG20-108	50.00		50.00	
Paragon Micro, INC	S3305947	Widescreen HD Video Webcam w/mic for Purchasing Dept #2011053	149.98	59.99	89.99	
Quetzil Castaneda	ENG20-107	S21-6501 -Temp sewer easement @ 2244 N Martha St - ENG20-107	2,413.00		2,413.00	
Republic Services, INC	0694-002656376	Trash removal @ Dillman & Serv Cntr - 01/01-01/31/21 - DR, SC	301.42	20.57	280.85	
Service Express, INC	316260 CBU	CBU portion for Poweredge - 01/01-03/31/21 - DIR	1,065.00	528.00	537.00	
Sunbelt Rentals, INC	109163111-0001	Saw blades 16" (2) for truck #629 - TD21-001	250.00	100.00	137.50	12.50
Grand total:			<u>11,153.53</u>	<u>882.89</u>	<u>10,203.32</u>	<u>67.32</u>

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AT&T	8123311353 12/20	812-331-1353 Service - S Washington St Storage 12/22-01/21/21	305.67	122.27	183.40
AT&T	8123315400 12/20	812-331-5400 - Service - Centrex main line - 12/22-01/21/21	2,401.25	960.50	1,440.75
AT&T Mobility II, LLC	287299116581-12	Service - 11/12-12/11/20 - All Utilities Departments	2,925.09	1,120.93	1,804.16
City Of Bloomington Utilities	39355-001 11/30	39355-001 Dillman WWTP Water/Wastewater charges 11/02-11/30/20	12.11		12.11
City Of Bloomington Utilities	40754-001 11/30	40754-001 Blucher Poole Water/Wastewater charges 11/02-11/30/20	2,144.58		2,144.58
City Of Bloomington Utilities	50913-001 12/20	50913-001 Service Center Water/Wastewater charges 11/02-11/30/20	33.45	13.38	20.07
Duke Energy	35102817018 1/21	Service - N Russell Road Booster Station - 11/30-12/30/20	515.06	515.06	
Duke Energy	44802673016 1/21	Service - Tamarron Lift Station - 11/30-12/30/20	508.54		508.54
Duke Energy	82603755010 1/21	Service - Southeast Pumping Station & Tank - 11/24-12/28/20	19,525.37	19,525.37	
Duke Energy	0140281201612/20	Service - Woodhaven Drive Lift Station - 11/24-12/28/20	46.40		46.40
Duke Energy	0930280801212/20	Service - West Tank Outdoor Lighting @ Waynes LN 11/23-12/23/20	9.96	9.96	
Duke Energy	1150372603512/20	Service - Angelina Lane Lift Station - 11/25-12/29/20	40.93		40.93
Duke Energy	1210281202412/20	Service - Cedar Chase Lift Station - 11/24-12/28/20	58.41		58.41
Duke Energy	2130375401312/20	Service - Knightridge Lift Station - 11/10-12/14/20	61.72		61.72
Duke Energy	2610280601712/20	Service - W 3rd St Lift Station - 11/20-12/22/20	7.30		7.30
Duke Energy	2850280801112/20	Service - Profile Pkwy Lift Station - 11/23-12/23/20	51.10		51.10
Duke Energy	2960372802312/20	Service - Vernal Pike Lift Station - 11/23-12/23/20	190.46		190.46
Duke Energy	2980354601912/20	Service - Micro Motors/Grimes Lane Lift Station 11/25-12/29/20	172.16		172.16
Duke Energy	3530280901012/20	Service - Westwood Lift Station(outdoor lighting) 11/23-12/23/20	10.09		10.09
Duke Energy	3840267301712/20	Service - Morningside Drive Lift Station - 11/10-12/14/20	160.28		160.28
Duke Energy	4570280901412/20	Service - Curry Pike Davis Lift Station - 11/23-12/23/20	85.34		85.34
Duke Energy	4880281201112/20	Service - East Booster (Outdoor Lighting) - 11/24-12/28/20	10.09	10.09	
Duke Energy	5050280901312/20	Service - Southwest Booster Station - 11/23-12/23/20	2,094.57	2,094.57	
Duke Energy	5430267301512/20	Service - South Booster Station - 11/24-12/28/20	8,252.43	8,252.43	
Duke Energy	5810281201612/20	Service - Cedarview Sims Lift Station - 11/24-12/28/20	25.60		25.60
Duke Energy	5920267301012/20	Service - Monroe Intake Tower - 11/24-12/28/20	37,579.39	37,579.39	
Duke Energy	6400279001512/20	Service - Basswood Circle Lift Station - 11/10-12/14/20	165.32		165.32
Duke Energy	6670267301212/20	Service - 3rd Street Underpass Lift Station - 11/24-12/28/20	29.84		29.84
Duke Energy	6760280701812/20	Service - Kensington Park Lift Station - 11/20-12/22/20	153.77		153.77
Duke Energy	6930280801512/20	Service - Curry Industrial Park Lift Station - 11/23-12/23/20	22.07		22.07
Duke Energy	6970278901012/20	Service - Cory Lane Lift Station - 11/10-12/14/20	31.44		31.44
Duke Energy	8840376101412/20	Service - Monroe Water Treatment Plant Expansion 11/24-12/28/20	4,410.53	4,410.53	
Duke Energy	9190361402712/20	Service - Fullerton Pike Lift Station - 11/19-12/21/20	53.34		53.34
Duke Energy	9660281401412/20	Service - NW Park Lift Station - 11/25-12/29/20	47.99		47.99
Duke Energy	9700367602512/20	Service - Vernal Pike Lift Station - 11/25-12/29/20	31.11		31.11
Smithville Telephone Co Inc	9011000437 1/21	901-100-0437 Service - Monroe Internet connection 12/02-01/01/21	49.95	49.95	
Smithville Telephone Co Inc	824-2894 1/21	812-824-2894 Service - Dillman fax - 12/02-01/01/21	46.64		46.64

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Smithville Telephone Co Inc	824-4901 1/21	812-824-4901 Service - Dillman WWTP - 12/02-01/01/21	208.22		208.22
Smithville Telephone Co Inc	824-7219 1/21	812-824-7219 Service - Monroe intake tower - 12/02-01/01/21	52.65	52.65	
Smithville Telephone Co Inc	824-9513 1/21	812-824-9513 Service - Monroe WTP - 12/02-01/01/21	144.76	144.76	
Smithville Telephone Co Inc	824-9572 1/21	812-824-9572 Service - Monroe fax - 12/02-01/01/21	46.64	46.64	
Smithville Telephone Co Inc	876-3318 1/21	812-876-3318 Service - Blucher WWTP - 12/02-01/01/21	190.21		190.21
Smithville Telephone Co Inc	876-8264 1/21	812-876-8264 Service - Blucher modem - 12/02-01/01/21	46.64		46.64
Smithville Telephone Co Inc	876-9276 01/21	812-876-9276 Service - Blucher fax - 12/02-01/01/21	46.64		46.64
South Central Indiana Remc	2093400200 12/20	Service - Blucher Poole - #2093400200 - 11/17-12/19/20	17,323.10		17,323.10
Utilities District of Western Indiana REMC	52184-001 1/21	Service - 52184-001 - Fieldstone LS - 12/01-01/01/21	712.00		712.00
Utilities District of Western Indiana REMC	75843-001 1/21	Service - 75843-001 - Stone Chase LS - 12/01-01/01/21	139.00		139.00
Verizon Wireless	9869366161	Service - Cradlepoint booster for WIFI - Engineering	130.59	52.24	78.35
Grand total:			<u>101,309.80</u>	<u>74,960.72</u>	<u>26,349.08</u>

WIRE TRANSFERS, FEES & PAYROLL FOR THE MONTH OF JANUARY, 2021

INDIANA DEPARTMENT OF REVENUE \$71,759.99  
(SALES TAX)

INDIANA DEPARTMENT OF REVENUE - RECEIPTS TAX \$57,377.79  
(UTILITY RECEIPTS TAX)

NPC \$39,552.96  
(CHARGE CARD FEES)

FIRST FINANCIAL BANK \$662.02  
(ACCOUNT ANALYSIS FEES)

GROSS PAYROLL \$368,120.42

FICA TAX \$22,340.81

TOTAL \$559,813.99

City of Bloomington Utilities  
Accounts Payable by Fund Distribution Report  
Paydate: 01/22/21

**CUSTOMER REFUNDS**

Vendor	Invoice No.	Invoice Description	Invoice Amount	Check No.	Reason for refund	Water Funds	Wastewater Funds	Stormwater Funds	Sanitation
Natures Way	200267-004	Customer refund	\$454.61	27314	Hydrant meter deposit refund after final bill		\$454.61		
Bryan Park Neighborhood Assoc	201173-001	Customer refund	\$100.00	27308	Hydrant meter deposit refund after final bill	\$1.11	\$98.89		
Jill Marston	6168-006	Customer refund	\$13.67	27312	Refund credit balance on closed account.	\$13.67			
Jeffrey Jones	20906-011	Customer refund	\$525.68	27311	Refund owner for payment to release lien. Tenant paid balance in full.		\$525.68		
Varsity Properties	33238-027	Customer refund	\$82.37	27316	Refund owner for payment to release lien. Tenant paid balance in full.		\$82.37		
Max Davidson	13281-001	Customer refund	\$53.18	27309	Refund credit balance on closed account.		\$53.18		
Harmony Education Center	17175-005	Customer refund	\$70.66	27310	Refund credit balance on closed account.		\$70.66		
Stephen Morris	836-003	Customer refund	\$38.95	27313	Refund credit balance on closed account.		\$38.95		
Tempo Properties	8964-003	Customer refund	\$1,819.94	27315	Refund credit balance on closed account.		\$1,819.94		
						<u>\$14.78</u>	<u>\$3,144.28</u>	<u>\$0.00</u>	<u>\$0.00</u>
			<u>\$3,159.06</u>						
			\$3,159.06						



**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Cindy Shaw**  
**DATE: 1/13/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR SERVICES WITH  
TERMINIX INTERNATIONAL, INC.**

**Funding Source:** 010-65-950006-U62024

**Total Dollar Amount of Contract:** \$4,500.00

**Expiration Date of Contract:** 12/31/2021 (with two additional one year renewal options, for a final expiration of 12/31/2023)

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 1/2034

**Legal Department Internal Tracking # (Legal Dept to fill in):** 20-748

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS  
ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS  
DEPARTMENTAL EMPLOYEE:** Cindy Shaw and Elise Boruvka

**Summary of Contract:** Control pests, including spiders, ants, mice, and general pests, at Dillman Wastewater Treatment Plant. The contract is set to auto-renew for two additional years. Final expiration date is 12/31/2023.



**MEMORANDUM**

**TO: Controller, Mayor & USB**  
**FROM: Cindy Shaw, Utilities**  
**DATE: 1/13/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR ON CALL SERVICES WITH TERMINIX INTERNATIONAL, INC.**

**Funding Source:** 009-U10500 (\$2,000.00) / 010-U10500 (\$3,000.00)

**Total Dollar Amount of Contract:** \$5,000.00/year

**Expiration Date of Contract:** 12/31/2021 (with two additional one year renewal options, for a final expiration of 12/31/2023)

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 1/2034

**Legal Department Internal Tracking # (Legal Dept to fill in):** 20-749

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS DEPARTMENTAL EMPLOYEE:**

Cindy Shaw and Elise Boruvka

**Summary of Contract:** On-Call Pest Control for calendar year 2021 with two additional one-year terms. This agreement is for pest control on an as needed basis at the Service Center, MWTP, Washington Street warehouse, and all other outlying buildings that contain CBU infrastructure excluding the Dillman and Blucher WWTPs. Dillman and Blucher have their own service agreements that provide for monthly service calls as opposed to being on an as needed basis.



**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Cindy Shaw**  
**DATE: 1/13/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR SERVICES WITH  
TERMINIX INTERNATIONAL, INC.**

**Funding Source:** 010-64-950006-U62024

**Total Dollar Amount of Contract:** \$392.40

**Expiration Date of Contract:** 12/31/2021 (with two additional one year renewal options, for a final expiration of 12/31/2023)

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 1/2034

**Legal Department Internal Tracking # (Legal Dept to fill in):** 21-015

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS  
ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS  
DEPARTMENTAL EMPLOYEE:** Cindy Shaw and Elise Boruvka

**Summary of Contract:** Control pests, including cockroaches, silverfish, rats, mice, and ants, at Blucher Poole Wastewater Treatment Plant. The contract is set to auto-renew for two additional years. Final expiration date is 12/31/2023.





**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Cindy Shaw**  
**DATE: 1/11/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR SERVICES WITH PERFECT POWER, INC.**

**Funding Source:** 009-52-900008-U67547  
010-52-950008-U67547

**Total Dollar Amount of Contract:** \$7,249.98

**Expiration Date of Contract:** 1/19/2024

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 1/2034

**Legal Department Internal Tracking # (Legal Dept to fill in):** 21-005

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS DEPARTMENTAL EMPLOYEE:** Cindy Shaw and Elise Boruvka

**Summary of Contract:** Annual preventative maintenance on uninterruptible power system (UPS) units with a one-time replacement of battery and installation of SNMP card at the Utilities Service Center



**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Cindy Shaw**  
**DATE: 1/11/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR SERVICES WITH HOLLERS WELDING, LLC**

**Funding Source:** 010-65-950006-U62032

**Total Dollar Amount of Contract:** \$8,500.00

**Expiration Date of Contract:** 6/30/2021

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 7/2031

**Legal Department Internal Tracking # (Legal Dept to fill in):** 21-006

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS DEPARTMENTAL EMPLOYEE:** Cindy Shaw and Elise Boruvka

**Summary of Contract:** Welding repairs on rotary screen housing at Dillman Wastewater Treatment Plant



**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Phil Peden**  
**DATE: January 12, 2021**  
**RE: REQUEST APPROVAL OF CHANGE ORDER #1 FOR AGREEMENT WITH MILLER PIPELINE, LLC**

**Funding Source:** Wastewater 010-U10500

**Total Dollar Amount of Contract:** Original NTE: \$622,944.00  
Change Order: (\$35,919.60)  
New NTE: **\$587,024.40**

**Expiration Date of Contract:** none

**Department Head Initials of Approval (Legal Dept to fill in):** /vk/

**Due Date For Signature:** For USB meeting on January 19, 2021

**Record Destruction Date (Legal Dept to fill in):** 2032

**Legal Department Internal Tracking # (Legal Dept to fill in):** 21-006 (orig. agmt: 20-077)

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS DEPARTMENTAL EMPLOYEE:**

Phil Peden

**Summary of Contract:** This is the final change order to rectify the quantities for the project. It is a deduct for use of less quantities in the amount of \$35,919.60. For a final total project cost of \$587,024.40.



**MEMORANDUM**

**TO: Controller, Mayor, USB**  
**FROM: Cindy Shaw**  
**DATE: 1/13/2021**  
**RE: REQUEST APPROVAL OF AGREEMENT FOR SERVICES WITH ARUS ANDRITZ-RUTHNER, INC., DBA ANDRITZ SEPARATION, INC.**

**Funding Source:** 010-64-950006-U62032

**Total Dollar Amount of Contract:** \$24,800.00

**Expiration Date of Contract:** 6/30/2021

**Department Head Initials of Approval:** /VK/

**Due Date For Signature:** 1/13/2021

**Record Destruction Date (Legal Dept to fill in):** 7/2031

**Legal Department Internal Tracking # (Legal Dept to fill in):** 21-017

**PREVIOUSLY REVIEWED BY & RETURN SIGNED CONTRACT TO THIS ATTORNEY:**

Christopher J. Wheeler

**ATTORNEY IS TO RETURN SIGNED CONTRACT TO THIS DEPARTMENTAL EMPLOYEE:** Cindy Shaw and Elise Boruvka

**Summary of Contract:** Service work for Komline belt presses UN-750 and UN-751 at Blucher Poole Wastewater Treatment Plant

**UTILITY SERVICE BOARD  
OF THE CITY OF BLOOMINGTON, INDIANA  
RESOLUTION NO. 2021-01**

**A RESOLUTION FOR THE ADJUSTMENT OF THE RATES AND CHARGES OF THE CITY OF BLOOMINGTON WATERWORKS UTILITY, THE APPROVAL OF THE FORM OF ORDINANCE ADJUSTING THE RATES AND CHARGES FOR THE USERS OF THE WATERWORKS UTILITY AND THE RECOMMENDATION OF ITS ADOPTION TO THE CITY OF BLOOMINGTON COMMON COUNCIL**

**WHEREAS,** the City of Bloomington, Indiana (the “City”), has previously established and constructed and now owns and operates through its Utility Service Board (the “Board”) a waterworks system for the public water supply to the City, its inhabitants, and other customers (the “Waterworks”), in accordance with the provisions of Indiana Code 8-1.5, as amended, through the City of Bloomington Utilities Department; and

**WHEREAS,** the current Waterworks rates and charges were established by Order of the Indiana Utility Regulatory Commission under Cause No. 44855 on the 4<sup>th</sup> Day of August, 2017; and

**WHEREAS,** the Board retained the services of Utility Financial Solutions LLC (“UFS”) to conduct a cost of services study (“COSS”) to determine the cost of providing service to each class of customers and to assist in design of water rates for customers; and

**WHEREAS,** the Board retained the services of Crowe LLP to prepare a study of the revenue requirements of the waterworks system pursuant to the provisions set forth in IC 8-1.5 and determined that the waterworks system annual operating revenues from water service do not produce sufficient revenues to meet the requirements of IC 8-1.5 and that said revenues need to be increased to provide income sufficient to pay the debt service on the proposed financing of the additions and improvements to the waterworks and otherwise provide for the revenue requirements set forth in IC 8-1.5, specifically IC 8-1.5-3-8; and

**WHEREAS,** the Board, upon consideration of the studies prepared by Crowe LLP and by UFS, recommends that the Common Council approve a two phase increase in the rates and charges of the waterworks with an 11.73% increase in revenues for phase I and a 9.38% increase in revenues for phase II; and

**WHEREAS,** based upon the aforementioned studies, and the recommendations of Crowe LLP and UFS, the Board finds that the rates and charges of the waterworks system of the City should be increased as set forth herein with Phase I to take effect at such time as may be determined in an upcoming proceeding before the Indiana Utility Regulatory Commission, and with Phase II to take effect January 1, 2024, so as to produce sufficient revenues to meet the requirements of the Act; and

**WHEREAS,** the Board finds that the rates and charges set forth herein are nondiscriminatory, reasonable and just and are based upon the cost of providing service to each class of customers of the waterworks system of the City, while giving due consideration to the concept of gradualism to minimize rate shock to customers; and

**WHEREAS,** a proposed form of an ordinance modifying the rates and charges for the users of the Waterworks (the "Waterworks Rate Ordinance") has been duly considered by the Board and found satisfactory, a copy of which is attached hereto as **Exhibit A**; and

**WHEREAS,** the Board desires to recommend the adoption of the proposed Waterworks Rate Ordinance to the City of Bloomington Common Council (the "Common Council").

**NOW, THEREFORE, BE IT RESOLVED BY THE UTILITY SERVICE BOARD OF THE CITY OF BLOOMINGTON, INDIANA, AS FOLLOWS:**

1. The Board recommends to the Common Council that the rates and charges for the users of the Waterworks be modified as set forth in the proposed form of the Waterworks Rate Ordinance presented at this meeting, by the adoption of such Waterworks Rate Ordinance in substantially the same form as **Exhibit A**.
2. The Secretary of the Board is hereby directed to present a copy of this Resolution along with the attached proposed Waterworks Rate Ordinance to the Clerk of the City for presentation to the Common Council as soon as may be done.
3. This Resolution shall be in full force and effect after its adoption by the Board.

\* \* \* \* \*

**PASSED AND ADOPTED THIS 19<sup>th</sup> DAY OF JANUARY, 2021**

**CITY OF BLOOMINGTON, INDIANA**

By and Through its Utility Service Board

\_\_\_\_\_  
Jean Capler, President

\_\_\_\_\_  
Amanda Burnham, Vice President

\_\_\_\_\_  
Jeff Ehman, Member

\_\_\_\_\_  
Julie Roberts, Member

\_\_\_\_\_  
Jason Banach, Member

\_\_\_\_\_  
Megan Parmenter

\_\_\_\_\_  
Steven J. Sherman, Member

**ATTEST:**

\_\_\_\_\_  
LaTreana Teague, Secretary

**EXHIBIT A**

**FORM OF WATERWORKS RATE ORDINANCE**



# City of Bloomington: Water Department Cost of Service Study 2020

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**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Plant Data Inputs*

Water		
Plant Capacity (Normal)	MGD	30.00
Total Production FY1900	MG	5,555.1
Max Day FY 2019	MG	22.30
Max Hour FY 2019	MG	24.00
Max Month FY 2019	MG	576
Max Hour	Date/Hour	8/15/2019 17:00
Max Day	Date	9/13/2019
Max Month	month	Sep-19

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Plant Data Inputs*

<b>Water Pumping from Treatment Plant</b>					
<b>Month</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019/2020</b>
January	490,627	461,320	458,647	457,828	475,300
February	464,851	441,520	425,049	414,720	403,200
March	472,606	447,516	445,807	426,563	399,200
April	473,595	448,603	455,157	434,849	455,714
May	510,082	451,757	460,363	469,846	452,945
June	469,694	484,620	501,685	446,640	439,377
July	483,173	474,729	490,817	490,767	489,242
August	515,295	508,933	541,820	476,842	515,383
September	514,444	497,670	523,838	470,032	528,074
October	483,915	505,960	505,112	458,930	484,917
November	439,590	450,417	440,059	422,942	428,782
December	452,676	465,398	432,214	417,129	482,966
<b>1 Annual Production</b>	<b>5,770,548</b>	<b>5,638,443</b>	<b>5,680,568</b>	<b>5,387,088</b>	<b>5,555,100</b>
<b>Monthly Water Sales</b>					
<b>Month</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019/2020</b>
January	294,818	306,607	290,399	296,277	299,704
February	320,443	304,795	305,482	333,734	328,265
March	303,161	297,200	266,703	312,414	289,159
April	262,387	341,098	305,711	268,838	302,253
May	295,243	309,189	304,435	294,535	282,713
June	311,964	300,021	311,485	350,523	340,992
July	317,030	356,865	352,758	360,108	327,506
August	332,992	329,122	361,349	384,695	335,676
September	342,140	356,907	502,781	353,947	389,084
October	411,747	395,368	405,837	387,184	379,060
November	343,461	327,537	358,385	309,954	367,021
December	299,946	333,396	338,932	352,969	296,005
<b>2 Sales - Gallons</b>	<b>3,835,332</b>	<b>3,958,105</b>	<b>4,104,257</b>	<b>4,005,178</b>	<b>3,937,439</b>
	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019/2020</b>
<b>3 Unbilled Revenues</b>	1,935,216	1,680,338	1,576,311	1,381,910	1,617,661
<b>4 Authorized Consumption</b>	1,283,634	541,254	408,623	375,001	527,533
<b>5 Water Loss</b>	651,582	1,139,084	1,167,688	1,006,909	1,090,128
<b>6 Authorized Consumption - % of total production</b>	22.2%	9.6%	7.2%	7.0%	9.5%
<b>7 Total Unbilled Water - % of total production</b>	33.5%	30%	28%	26%	29%
<b>8 System water Loss - % of production</b>	11.3%	20.2%	20.6%	18.7%	19.6%
<b>9 Production less Authorized Usage</b>	4,486,914	5,097,189	5,271,945	5,012,087	5,027,567
<b>10 System water Loss - % of adjusted production</b>	14.5%	22.3%	22.1%	20.1%	21.7%
<b>11 System water loss - % of sales</b>	17.0%	28.8%	28.5%	25.1%	27.7%

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*T&D Inputs*

*Linear Feet Outside City and Installed Cost Unavailable*

**Mains - Plant (Installed)**

Pipe Size (inch)	Classification of Type	Water (In) Installed		Water (Out) Installed		Inch Foot - Inside System	Inch Foot - Outside System
		Linear Feet	\$/LF	Linear Feet	\$/LF		
0.5	Service Drops					-	-
0.75	Service Drops	444		325		333	244
1	Service Drops	8,151		5,203		8,151	5,203
1.25	Service Drops	2		0		3	-
1.5	Service Drops	5,087		217		7,631	326
2.5	Distribution	0		0		-	-
2	Distribution	49,921		22,472		99,842	44,944
3	Distribution	388		0		1,164	-
4	Distribution	68,686		37,010		274,744	148,040
6	Distribution	606,932		217,610		3,641,592	1,305,660
8	Distribution	291,842		137,956		2,334,736	1,103,648
10	Distribution	13,522		5,472		135,220	54,720
12	Distribution	277,702		166,427		3,332,424	1,997,124
14	Distribution	6,274		0		87,836	-
16	Transmission	31,962		24,671		511,392	394,736
18	Transmission	24,831		4		446,958	72
20	Transmission	57,486		28,824		1,149,720	576,480
24	Transmission	67,193		17,937		1,612,632	430,488
30	Transmission	0		46		-	1,380
36	Transmission	11,653		59,566		419,508	2,144,376
42	Transmission	0		0		-	-
48	Transmission	0		544		-	26,112
54	Transmission	0		0		-	-
<b>TOTAL</b>		<b>1,522,076</b>		<b>724,284</b>		<b>14,063,885</b>	<b>8,233,552</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**

**T&D Inputs**

**Classification of Linear Feet**

	Inside City	Outside City	System
Service Drops	13,684	5,745	19,429
Distribution	1,315,267	586,947	1,902,214
Transmission	193,125	131,592	324,717
<b>Total</b>	<b>1,522,076</b>	<b>724,284</b>	<b>2,246,360</b>

**Classification of Inch-Foot**

	Inside City	Outside City	System
Service Drops	16,117	5,772	21,889
Distribution	9,907,558	4,654,136	14,561,694
Transmission	4,140,210	3,573,644	7,713,854
<b>Total</b>	<b>14,063,885</b>	<b>8,233,552</b>	<b>22,297,437</b>

**Determination of Minimum System Percent**

	Inside City	Outside City	Total	
Distribution System - Inch Foot	9,907,558	4,654,136	14,561,694	
Linear Feet of Distribution	1,315,267	586,947	1,902,214	
Minimum Size Pipe - Distribution - Inch	<b>2.00</b>	<b>2.00</b>	2.00	
Minimum System Factor	2,630,534	1,173,894	3,804,428	2 times 3
<b>Percent to Minimum System</b>	<b>26.6%</b>	<b>25.2%</b>	<b>26.1%</b>	4 divided 1

**Percent of System - Transmission**

	Inch Feet	Percent of Total	
Lines less than 16 inches	14,583,583	65%	Including Service Drops
Lines 16 inches and above	7,713,854	35%	
Total	22,297,437	100%	

Ideal calculation below would use costs

**Determination of Percent of Distribution to Allocate to Fire Protection**

Inch-Foot 2 - 6 inch	4,017,342	Small distribution
Linear Feet 8 - 14 inch	589,340	Large distribution
6 inch factor		6 Factor
Equivalent for 8 - 14	3,536,040	Inch-Foot
Minimum System Factor	2,630,534	Used for minimum system above
Total Distribution Inch-Foot	9,907,558	
Capacity Percent	49.7%	(1+4-5)/6
Min System Percent	26.1%	From minimum system calculation
Total Percent before Fire Protection	75.8%	7+8
<b>Fire Protection 1 - Percent</b>	<b>24.2%</b>	1-9

**Determination of Loss by Service Level**

Service Level	Percent	Units 1,000 Gallons	Loss Factor	Production	Loss Factor
Distribution	65%	<b>2,545,523</b>	712,996	3,258,518	28%
Transmission	35%	<b>3,937,439</b>	377,133	4,314,571	10%
<b>Total</b>	<b>100%</b>		<b>1,090,128</b>	<b>5,027,567</b>	<b>28%</b>

Bloomington Water Department  
 Cost of Service Study FY2020  
 Usage and Revenue Projections

Meters Actual													Meter			Equivalent Factor	Equivalent Meters
	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average	Projected		
5/8"	6,361	6,361	6,361	6,446	6,499	6,461	6,636	6,702	6,402	6,411	6,394	6,361	77,395	6,450	6,450	1.00	6,450
3/4"	14,709	14,709	14,709	15,191	15,332	15,254	15,721	15,733	15,221	15,122	15,008	14,709	181,418	15,118	15,118	1.50	22,677
1"	3,301	3,301	3,301	3,419	3,438	3,418	3,495	3,590	3,420	3,399	3,358	3,301	40,741	3,395	3,395	2.50	8,488
1 1/2"	479	479	479	480	485	479	486	483	480	480	480	479	5,769	481	481	5.00	2,404
2"	525	525	525	545	547	534	537	536	534	529	517	525	6,379	532	532	8.00	4,253
3"	92	92	92	86	93	89	94	94	97	95	97	92	1,113	93	93	15.00	1,391
4"	83	83	83	86	81	84	84	85	84	84	84	83	1,004	84	84	25.00	2,092
6"	69	69	69	70	70	68	70	72	70	70	70	69	836	70	70	50.00	3,483
8"	10	10	10	11	11	11	11	10	10	10	10	10	124	10	10	80.00	827
10"	3	3	3	3	3	3	3	3	3	3	3	3	36	3	3	115.00	345
<b>Total</b>	<b>25,632</b>	<b>25,632</b>	<b>25,632</b>	<b>26,337</b>	<b>26,559</b>	<b>26,401</b>	<b>27,137</b>	<b>27,308</b>	<b>26,321</b>	<b>26,203</b>	<b>26,021</b>	<b>25,632</b>	<b>314,815</b>	<b>26,235</b>	<b>26,235</b>		<b>52,409</b>

  

Meter Rates - 2019	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average	Projected
5/8"	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	\$ 455,857	37,988	\$ 455,857
3/4"	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	7.86	\$ 1,425,945	118,829	\$ 1,425,945
1"	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	\$ 431,447	35,954	\$ 431,447
1 1/2"	18.39	18.39	18.39	18.39	18.39	18.39	18.39	18.39	18.39	18.39	18.39	18.39	\$ 106,092	8,841	\$ 106,092
2"	26.20	26.20	26.20	26.20	26.20	26.20	26.20	26.20	26.20	26.20	26.20	26.20	\$ 167,130	13,927	\$ 167,130
3"	60.55	60.55	60.55	60.55	60.55	60.55	60.55	60.55	60.55	60.55	60.55	60.55	\$ 67,392	5,616	\$ 67,392
4"	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	\$ 99,968	8,331	\$ 99,968
6"	197.13	197.13	197.13	197.13	197.13	197.13	197.13	197.13	197.13	197.13	197.13	197.13	\$ 164,801	13,733	\$ 164,801
8"	294.69	294.69	294.69	294.69	294.69	294.69	294.69	294.69	294.69	294.69	294.69	294.69	\$ 36,542	3,045	\$ 36,542
10"	392.24	392.24	392.24	392.24	392.24	392.24	392.24	392.24	392.24	392.24	392.24	392.24	\$ 14,121	1,177	\$ 14,121
<b>Total Meter Charge Revenues</b>													<b>\$ 2,969,294</b>		

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Usage and Revenue Projections*

Meters Actual - Fire Protection Charges	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average	Projected	Meter Equivalent Factor	Equivalent Meters
5/8"	5,055	5,058	5,065	5,151	5,203	5,175	5,347	5,412	5,113	5,112	4,868	5,050	61,609	5,134	5,134	1.00	5,134
3/4"	9,979	9,956	9,966	10,442	10,590	10,532	10,992	10,989	10,445	9,281	9,689	9,981	122,842	10,237	10,237	1.50	15,355
1"	2,711	2,712	2,711	2,828	2,856	2,828	2,911	3,004	2,832	2,813	2,570	2,710	33,486	2,791	2,791	2.50	6,976
1 1/2"	428	429	429	429	434	427	434	430	427	427	427	428	5,149	429	429	5.00	2,145
2"	457	458	456	477	479	467	471	470	468	464	453	457	5,577	465	465	8.00	3,718
3"	78	78	79	71	78	74	79	79	82	79	81	78	936	78	78	15.00	1,170
4"	71	71	72	73	70	72	72	73	72	72	72	71	861	72	72	25.00	1,794
6"	61	62	62	62	62	60	62	64	62	61	61	61	740	62	62	50.00	3,083
8"	9	9	9	9	9	9	9	8	8	8	8	9	104	9	9	80.00	693
10"	3	3	3	3	3	3	3	3	3	3	3	3	36	3	3	115.00	345
Fire Pro 5/8" Meter Out	1,306	1,303	1,296	1,295	1,296	1,286	1,289	1,290	1,289	1,299	1,526	1,311	15,786	1,316	1,316	1.00	1,316
Fire Pro 3/4" Meter Out	4,730	4,753	4,743	4,749	4,742	4,722	4,729	4,744	4,776	5,841	5,319	4,728	58,576	4,881	4,881	1.50	7,322
Fire Pro 1" Meter Out	590	589	590	591	582	590	584	586	588	586	788	591	7,255	605	605	2.50	1,511
Fire Pro 1.5" Meter Out	51	50	50	51	51	52	52	53	53	53	53	51	620	52	52	5.00	258
Fire Pro 2" Meter Out	68	67	69	68	68	67	66	66	66	65	64	68	802	67	67	8.00	535
Fire Pro 3" Meter Out	14	14	13	15	15	15	15	15	15	16	16	14	177	15	15	15.00	221
Fire Pro 4" Meter Out	12	12	11	13	11	12	12	12	12	12	12	12	143	12	12	25.00	298
Fire Pro 6" Meter Out	8	7	7	8	8	8	8	8	8	9	9	8	96	8	8	50.00	400
Fire Pro 8" Meter Out	1	1	1	2	2	2	2	2	2	2	2	1	20	2	2	80.00	133
<b>Total</b>	<b>25,632</b>	<b>25,632</b>	<b>25,632</b>	<b>26,337</b>	<b>26,559</b>	<b>26,401</b>	<b>27,137</b>	<b>27,308</b>	<b>26,321</b>	<b>26,203</b>	<b>26,021</b>	<b>25,632</b>	<b>314,815</b>	<b>26,235</b>	<b>26,235</b>		<b>52,409</b>

Fire Protection Rates - 2019	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average	Projected
5/8"	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	\$ 120,754	10,063	10,063
3/4"	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	\$ 359,927	29,994	29,994
1"	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	4.89	\$ 163,747	13,646	13,646
1 1/2"	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	\$ 50,357	4,196	4,196
2"	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	15.64	\$ 87,224	7,269	7,269
3"	34.23	34.23	34.23	34.23	34.23	34.23	34.23	34.23	34.23	34.23	34.23	34.23	\$ 32,039	2,670	2,670
4"	58.67	58.67	58.67	58.67	58.67	58.67	58.67	58.67	58.67	58.67	58.67	58.67	\$ 50,515	4,210	4,210
6"	122.27	122.27	122.27	122.27	122.27	122.27	122.27	122.27	122.27	122.27	122.27	122.27	\$ 90,480	7,540	7,540
8"	176.06	176.06	176.06	176.06	176.06	176.06	176.06	176.06	176.06	176.06	176.06	176.06	\$ 18,310	1,526	1,526
10"	283.63	283.63	283.63	283.63	283.63	283.63	283.63	283.63	283.63	283.63	283.63	283.63	\$ 10,211	851	851
Fire Pro 5/8" Meter Out	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	\$ 51,778	4,315	4,315
Fire Pro 3/4" Meter Out	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	\$ 288,780	24,065	24,065
Fire Pro 1" Meter Out	8.22	8.22	8.22	8.22	8.22	8.22	8.22	8.22	8.22	8.22	8.22	8.22	\$ 59,636	4,970	4,970
Fire Pro 1.5" Meter Out	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	16.41	\$ 10,174	848	848
Fire Pro 2" Meter Out	26.29	26.29	26.29	26.29	26.29	26.29	26.29	26.29	26.29	26.29	26.29	26.29	\$ 21,085	1,757	1,757
Fire Pro 3" Meter Out	57.50	57.50	57.50	57.50	57.50	57.50	57.50	57.50	57.50	57.50	57.50	57.50	\$ 10,178	848	848
Fire Pro 4" Meter Out	98.53	98.53	98.53	98.53	98.53	98.53	98.53	98.53	98.53	98.53	98.53	98.53	\$ 14,090	1,174	1,174
Fire Pro 6" Meter Out	205.29	205.29	205.29	205.29	205.29	205.29	205.29	205.29	205.29	205.29	205.29	205.29	\$ 19,708	1,642	1,642
Fire Pro 8" Meter Out	295.60	295.60	295.60	295.60	295.60	295.60	295.60	295.60	295.60	295.60	295.60	295.60	\$ 5,912	493	493
Fire Pro 10" Meter Out	476.27	476.27	476.27	476.27	476.27	476.27	476.27	476.27	476.27	476.27	476.27	476.27	\$ -	-	-
<b>Total Fire Protection Revenues</b>													<b>\$ 1,464,903</b>		

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Usage and Revenue Projections*

	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average	Projected	Meter Equivalent Factor	Equivalent Meters
<b>Private Fire Protection</b>																	
Private Fire 4" or Less	203	203	203	203	206	200	205	202	201	193	191	187	2,397	200	200	25.00	4,994
Private Fire 6"	245	248	249	252	252	253	254	254	253	246	247	243	2,996	250	250	50.00	12,483
Private Fire 8"	65	63	65	65	64	64	63	63	63	62	60	59	756	63	63	80.00	5,040
Private Fire 10"	4	4	4	4	4	4	4	4	4	4	4	4	48	4	4	115.00	460
Private Fire 12"	7	6	6	7	7	7	7	7	7	7	7	7	82	7	7	215.00	1,469
<b>Private Fire Protection Rates - 2019</b>																	
Private Fire 4" or Less	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	9.86	\$ 23,634				
Private Fire 6"	27.40	27.40	27.40	27.40	27.40	27.40	27.40	27.40	27.40	27.40	27.40	27.40	\$ 82,090				
Private Fire 8"	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	\$ 42,449				
Private Fire 10"	98.34	98.34	98.34	98.34	98.34	98.34	98.34	98.34	98.34	98.34	98.34	98.34	\$ 4,720				
Private Fire 12"	155.05	155.05	155.05	155.05	155.05	155.05	155.05	155.05	155.05	155.05	155.05	155.05	\$ 12,714				
<b>Total Private Fire Protection Revenues</b>													<b>\$ 165,609</b>				
Reconciliation factor	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%	2.28%					
Wholesale reconciliation factor				1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%					
Irrigation reconciliation factor				-2.34%	-2.34%	-2.34%	-2.34%	-2.34%	-2.34%	-2.34%	-2.34%	-2.34%					
<b>Units - 1,000 Gallons</b>																	
Residential and Multi Family	123,555	138,238	130,801	134,450	120,654	140,261	136,147	118,703	136,079	144,162	140,817	129,672	1,593,538	1,593,538	1,593,538		
Comm, Gov, Interdept Usage	54,563	55,958	55,260	58,657	55,922	71,175	70,480	73,293	79,333	76,595	75,881	61,226	788,343	788,343	788,343		
Industrial	3,806	3,442	2,666	3,435	3,448	5,362	4,279	5,086	6,291	4,612	4,914	3,633	50,973	50,973	50,973		
Wholesale	90,003	95,327	77,333	76,239	66,838	92,259	86,970	87,399	107,518	92,351	92,983	72,215	1,037,433	1,037,433	1,037,433		
Indiana University Usage	27,361	34,294	22,732	29,026	34,605	24,543	20,118	33,312	34,848	34,873	34,616	24,154	354,483	354,483	354,483		
Irrigation Usage	416	1,006	368	447	1,247	7,393	9,512	17,883	25,014	26,467	17,812	5,106	112,669	112,669	112,669		
<b>Total</b>	<b>299,704</b>	<b>328,265</b>	<b>289,159</b>	<b>302,253</b>	<b>282,713</b>	<b>340,992</b>	<b>327,506</b>	<b>335,676</b>	<b>389,084</b>	<b>379,060</b>	<b>367,021</b>	<b>296,005</b>	<b>3,937,439</b>	<b>3,937,439</b>	<b>3,937,439</b>		
	274,669	313,987	293,722	301,354	281,888	340,333	326,979	335,510	389,125	379,137	366,745	295,332					
<b>Units - 1,000 Gallon 2019 Rates</b>																	
Residential and Multi Family	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	\$ 5,943,896				
Comm, Gov, Interdept Usage	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	\$ 2,491,162				
Industrial	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	2.92	\$ 148,842				
Wholesale	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	2.39	\$ 2,479,465				
Indiana University Usage	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	\$ 840,125				
Irrigation Usage	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	\$ 385,328				
<b>Usage Revenues</b>													<b>12,288,818</b>				



**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Diversified Class Ratio's*

<b>Billed Usage</b>							
	<b>Residential and Multi Family</b>	<b>Comm, Gov, Interdept Usage</b>	<b>Industrial</b>	<b>Wholesale</b>	<b>Indiana University Usage</b>	<b>Irrigation Usage</b>	<b>Total</b>
<i>From Projected Usages</i>							
January	123,555	54,563	3,806	90,003	27,361	416	299,704
February	138,238	55,958	3,442	95,327	34,294	1,006	328,265
March	130,801	55,260	2,666	77,333	22,732	368	289,159
April	134,450	58,657	3,435	76,239	29,026	447	302,253
May	120,654	55,922	3,448	66,838	34,605	1,247	282,713
June	140,261	71,175	5,362	92,259	24,543	7,393	340,992
July	136,147	70,480	4,279	86,970	20,118	9,512	327,506
August	118,703	73,293	5,086	87,399	33,312	17,883	335,676
September	136,079	79,333	6,291	107,518	34,848	25,014	389,084
October	144,162	76,595	4,612	92,351	34,873	26,467	379,060
November	140,817	75,881	4,914	92,983	34,616	17,812	367,021
December	129,672	61,226	3,633	72,215	24,154	5,106	296,005
<b>Total</b>	<b>1,593,538</b>	<b>788,343</b>	<b>50,973</b>	<b>1,037,433</b>	<b>354,483</b>	<b>112,669</b>	<b>3,937,439</b>
Distribution Losses	28%	28%	28%			28%	
Transmission Losses	10%	10%	10%	10%	10%	10%	1,090,128
Water Production	2,192,515	1,084,664	70,133	1,136,800	388,436	155,019	5,027,567

<b>Statistics</b>	<b>Residential and Multi Family</b>	<b>Comm, Gov, Interdept Usage</b>	<b>Industrial</b>	<b>Wholesale</b>	<b>Indiana University Usage</b>	<b>Irrigation Usage</b>	<b>Total</b>
Average Day	6,007	2,972	192	3,115	1,064	425	13,774
Max Month Usage	193,108	106,314	7,333	104,927	38,110	31,812	481,605
Max Period	Sept - Nov	Aug - October	August - Oct	Aug - Oct	Sept - Nov	Sept - Nov	September
Days of Max Month	30.33	30.33	30.67	30.67	30.33	30.67	
Average Day Max Month	6,366	3,505	239	3,422	1,256	1,037	15,825
<b>Units Sales</b>	<b>1,593,538</b>	<b>788,343</b>	<b>50,973</b>	<b>1,037,433</b>	<b>354,483</b>	<b>112,669</b>	<b>3,937,439</b>
<b>Average Day</b>	<b>6,007</b>	<b>2,972</b>	<b>192</b>	<b>3,115</b>	<b>1,064</b>	<b>425</b>	<b>13,774</b>
<b>Average Day Usage Max Month</b>	<b>6,366</b>	<b>3,505</b>	<b>239</b>	<b>3,422</b>	<b>1,256</b>	<b>1,037</b>	<b>15,825</b>
MM/AD Ratio	1.06	1.18	1.24	1.10	1.18	2.44	
System MD/MM Ratio	1.09	1.09	1.09	1.09	1.09	1.09	
Weekly Usage Adjustment	1.35	1.17	1.17	1.17	1.17	1.35	
<b>Max Day</b>	<b>9,411</b>	<b>4,490</b>	<b>306</b>	<b>4,383</b>	<b>1,610</b>	<b>1,533</b>	<b>21,733</b>
<b>MD Factor</b>	<b>1.57</b>	<b>1.51</b>	<b>1.59</b>	<b>1.41</b>	<b>1.51</b>	<b>3.61</b>	
<b>Max Hour Ratio</b>	<b>1.13</b>	<b>1.13</b>	<b>1.13</b>	<b>1.13</b>	<b>1.13</b>	<b>1.13</b>	
<b>Max Hour Usage</b>	<b>10,634</b>	<b>5,074</b>	<b>346</b>	<b>4,953</b>	<b>1,819</b>	<b>1,733</b>	<b>24,559</b>
<b>MH Factor</b>	<b>1.77</b>	<b>1.71</b>	<b>1.80</b>	<b>1.59</b>	<b>1.71</b>	<b>4.08</b>	

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Ratebase Allocators*

	2	3.00	4	4
Classification Factors				
	Treatment	Distribution	Transmission	Reservoirs
Max Hour		1.70	1.70	8.78
Max Day	7.08	7.08	7.08	
Base	15.22	3.04	15.22	15.22
Customer-Related		6.37		
Fire Protection		5.80		
<b>Total</b>	<b>22.30</b>	<b>24.00</b>	<b>24.00</b>	<b>24.00</b>

	Total	Capacity - Treat		Extra Capacity - Distribution			Extra Capacity - Transmission			Distribution				
		Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH	Meters	Services	Fire Prot.	Hydrants	Facilities
Source of Supply	22.30	22.30	-	-	-	-	-	-	-	-	-	-	-	-
Pumping	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-
Treatment	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-
Transmission Plant	24.00	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-
Distribution Plant														
(303.5) Land & Land Rights	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	6.37
(341) Structures & Improvements	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	6.37
(330.5) Distribution Storage	24.00	-	-	15.22	-	8.78	-	-	-	-	-	-	-	-
(344) Distribution Mains	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	6.37
(345) Services	1.00	-	-	-	-	-	-	-	-	-	1.00	-	-	-
(346) Meters	1.00	-	-	-	-	-	-	-	-	1.00	-	-	-	-
(348) Hydrants	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-
(336.5) Backflow Prevention Devices	1.00	-	-	-	-	-	-	-	-	-	1.00	-	-	-
(339.5) Other Distribution Plant 1	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	6.37
(339.55) Other Distribution Plant 2	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	6.37

	Total	Capacity - Treat		Extra Capacity - Distribution			Extra Capacity - Transmission			Distribution				
		Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH	Meters	Services	Fire Prot.	Hydrants	Facilities
Source of Supply	-	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Pumping	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Treatment	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transmission Plant	-	0%	0%	0%	0%	0%	63%	30%	7%	0%	0%	0%	0%	0%
Distribution Plant														
(303.5) Land & Land Rights	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(341) Structures & Improvements	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(330.5) Distribution Storage	-	0%	0%	63%	0%	37%	0%	0%	0%	0%	0%	0%	0%	0%
(344) Distribution Mains	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(345) Services	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(346) Meters	-	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
(348) Hydrants	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%
(336.5) Backflow Prevention Devices	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(339.5) Other Distribution Plant 1	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(339.55) Other Distribution Plant 2	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Ratebase Allocators*

	2	3.00	4	4
Classification Factors				
	Treatment	Distribution	Transmission	Reservoirs
Max Hour		1.70	1.70	8.78
Max Day	7.08	7.08	7.08	
Base	15.22	3.04	15.22	15.22
Customer-Related		6.37		
Fire Protection		5.80		
<b>Total</b>	<b>22.30</b>	<b>24.00</b>	<b>24.00</b>	<b>24.00</b>

	Extra Capacity - Treatment			Extra Capacity - Distribution			Extra Capacity - Transmission							
	Treatment Base	Treatment MD		Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH	Meters	Services	Fire Prot.	Hydrants	Distribution Facilities
Source of Supply	4,822,418	4,822,418	-	-	-	-	-	-	-	-	-	-	-	-
Pumping	3,257,106	2,222,931	1,034,175	-	-	-	-	-	-	-	-	-	-	-
Treatment	42,342,800	28,898,395	13,444,405	-	-	-	-	-	-	-	-	-	-	-
Transmission Plant	\$ -	-	-	-	-	-	-	-	-	-	-	-	-	-
(340) Land & Land Rights	308,530	-	-	-	-	-	195,652	91,023	21,854	-	-	-	-	-
(343.5) Transmission Mains Outside City	19,489,249	-	-	-	-	-	12,358,987	5,749,773	1,380,488	-	-	-	-	-
Distribution Plant	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(303.5) Land & Land Rights	583,298	-	-	73,949	172,086	41,317	-	-	-	-	-	141,076	-	154,870
(341) Structures & Improvements	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(330.5) Distribution Storage	2,285,569	-	-	1,449,380	-	836,190	-	-	-	-	-	-	-	-
(344) Distribution Mains	36,845,795	-	-	4,671,192	10,870,351	2,609,910	-	-	-	-	-	8,911,495	-	9,782,846
(345) Services	38,529	-	-	-	-	-	-	-	-	-	38,529	-	-	-
(346) Meters	814,883	-	-	-	-	-	-	-	-	814,883	-	-	-	-
(348) Hydrants	1,457,203	-	-	-	-	-	-	-	-	-	-	-	1,457,203	-
(336.5) Backflow Prevention Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(339.5) Other Distribution Plant 1	3,690	-	-	468	1,089	261	-	-	-	-	-	892	-	980
(339.55) Other Distribution Plant 2	230,830	-	-	29,264	68,100	16,350	-	-	-	-	-	55,828	-	61,287
<b>SubTotal</b>	<b>112,479,899</b>	<b>35,943,745</b>	<b>14,478,579</b>	<b>6,224,252</b>	<b>11,111,625</b>	<b>3,504,029</b>	<b>12,554,640</b>	<b>5,840,797</b>	<b>1,402,343</b>	<b>814,883</b>	<b>38,529</b>	<b>9,109,292</b>	<b>1,457,203</b>	<b>9,999,983</b>
<b>Ratebase Subtotal Percent</b>	<b>100%</b>	<b>32%</b>	<b>13%</b>	<b>6%</b>	<b>10%</b>	<b>3%</b>	<b>11%</b>	<b>5%</b>	<b>1%</b>	<b>1%</b>	<b>0%</b>	<b>8%</b>	<b>1%</b>	<b>9%</b>
<b>T&amp;D Subtotal</b>	<b>\$ 60,350,865</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,150,303</b>	<b>\$10,939,539</b>	<b>\$ 3,462,712</b>	<b>\$12,358,987</b>	<b>\$ 5,749,773</b>	<b>\$ 1,380,488</b>	<b>\$ -</b>	<b>\$ 38,529</b>	<b>\$8,968,216</b>	<b>\$1,457,203</b>	<b>\$ 9,845,113</b>
<b>T&amp;D Allocator</b>	<b>100%</b>	<b>0%</b>	<b>0%</b>	<b>10%</b>	<b>18%</b>	<b>6%</b>	<b>20%</b>	<b>10%</b>	<b>2%</b>	<b>0%</b>	<b>0%</b>	<b>15%</b>	<b>2%</b>	<b>16%</b>
General Plant	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Land & Land Rights	17,750	5,672	2,285	982	1,753	553	1,981	922	221	129	6	1,438	230	1,578
Structures and Improvements	3,667,990	1,172,132	472,149	202,974	362,352	114,267	409,409	190,469	45,731	26,573	1,256	297,056	47,520	326,101
Office Furniture and Equipment	44,567	14,242	5,737	2,466	4,403	1,388	4,974	2,314	556	323	15	3,609	577	3,962
Transportation Equipment	1,801,399	-	-	183,579	326,532	103,358	368,901	171,624	41,206	-	1,150	267,690	43,496	293,865
Tools, Shop and Garage Equipment	4,075	1,302	525	226	403	127	455	212	51	30	1	330	53	362
Laboratory Equipment	124,573	39,808	16,035	6,893	12,306	3,881	13,904	6,469	1,553	902	43	10,089	1,614	11,075
Power Operated Equipment	73,170	23,382	9,419	4,049	7,228	2,279	8,167	3,800	912	530	25	5,926	948	6,505
Communication Equipment	49,854	15,931	6,417	2,759	4,925	1,553	5,565	2,589	622	361	17	4,037	646	4,432
Miscellaneous Equipment	157,874	50,450	20,322	8,736	15,596	4,918	17,621	8,198	1,968	1,144	54	12,786	2,045	14,036
<b>Total Plant In Service</b>	<b>\$ 118,421,153</b>	<b>\$ 37,266,664</b>	<b>\$ 15,011,468</b>	<b>6,636,916</b>	<b>\$11,847,124</b>	<b>\$ 3,736,353</b>	<b>\$13,385,617</b>	<b>\$ 6,227,393</b>	<b>\$ 1,495,162</b>	<b>\$844,875</b>	<b>\$ 41,097</b>	<b>\$9,712,252</b>	<b>\$1,554,332</b>	<b>\$ 10,661,900</b>
<b>Total Rate Base Percent</b>	<b>100.0%</b>	<b>31.5%</b>	<b>12.7%</b>	<b>5.6%</b>	<b>10.0%</b>	<b>3.2%</b>	<b>11.3%</b>	<b>5.3%</b>	<b>1.3%</b>	<b>0.7%</b>	<b>0.0%</b>	<b>8.2%</b>	<b>1.3%</b>	<b>9.0%</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Depreciation Expense*

	Classification Factors			
	Treatment	Distribution	Transmission	Reservoirs
Max Hour		1.70	1.70	8.78
Max Day	7.08	7.08	7.08	
Base	15.22	3.04	15.22	15.22
Customer-Related		6.37		
Fire Protection		5.80		
<b>Total</b>	<b>22.30</b>	<b>24.00</b>	<b>24.00</b>	<b>24.00</b>

		Extra Capacity - Treatment		Extra Capacity - Distribution			Extra Capacity - Transmission			Meters	Services	Fire Prot.	Hydrants	Distribution Facilities
		Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH					
Source of Supply	-	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Pumping	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Treatment	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transmission Plant	-	0%	0%	0%	0%	0%	63%	30%	7%	0%	0%	0%	0%	0%
Distribution Plant														
(303.5) Land & Land Rights	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(341) Structures & Improvements	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(330.5) Distribution Storage	-	0%	0%	63%	0%	37%	0%	0%	0%	0%	0%	0%	0%	0%
(344) Distribution Mains	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(345) Services	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(346) Meters	-	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
(348) Hydrants	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%
(336.5) Backflow Prevention Devices	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(339.5) Other Distribution Plant 1	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%
(339.55) Other Distribution Plant 2	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Depreciation Expense*

	Classification Factors			
	Treatment	Distribution	Transmission	Reservoirs
Max Hour		1.70	1.70	8.78
Max Day	7.08	7.08	7.08	
Base	15.22	3.04	15.22	15.22
Customer-Related		6.37		
Fire Protection		5.80		
<b>Total</b>	<b>22.30</b>	<b>24.00</b>	<b>24.00</b>	<b>24.00</b>

	Extra Capacity - Treatment		Extra Capacity - Distribution			Extra Capacity - Transmission			Meters	Services	Fire Prot.	Hydrants	Distribution Facilities	
	Total	Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD						Transmission MH
Source of Supply	319,230	319,230	-	-	-	-	-	-	-	-	-	-	-	
Pumping	513,649	350,558	163,090	-	-	-	-	-	-	-	-	-	-	
Treatment	3,687,783	2,516,862	1,170,920	-	-	-	-	-	-	-	-	-	-	
Transmission Plant														
(340) Land & Land Rights	11,224	-	-	-	-	-	7,118	3,311	795	-	-	-	-	
(343.5) Transmission Mains Outside City	1,491,884	-	-	-	-	-	946,069	440,140	105,675	-	-	-	-	
Distribution Plant														
(303.5) Land & Land Rights	21,220	-	-	2,690	6,260	1,503	-	-	-	-	5,132	-	5,634	
(341) Structures & Improvements	-	-	-	-	-	-	-	-	-	-	-	-	-	
(330.5) Distribution Storage	299,377	-	-	189,848	-	109,529	-	-	-	-	-	-	-	
(344) Distribution Mains	2,820,512	-	-	357,575	832,115	199,786	-	-	-	-	682,167	-	748,868	
(345) Services	49,288	-	-	-	-	-	-	-	-	49,288	-	-	-	
(346) Meters	68,222	-	-	-	-	-	-	-	68,222	-	-	-	-	
(348) Hydrants	200,519	-	-	-	-	-	-	-	-	-	-	200,519	-	
(336.5) Backflow Prevention Devices	-	-	-	-	-	-	-	-	-	-	-	-	-	
(339.5) Other Distribution Plant 1	514	-	-	65	152	36	-	-	-	-	124	-	137	
(339.55) Other Distribution Plant 2	23,870	-	-	3,026	7,042	1,691	-	-	-	-	5,773	-	6,338	
<b>SubTotal</b>	<b>9,507,291</b>	<b>3,186,651</b>	<b>1,334,011</b>	<b>553,205</b>	<b>845,570</b>	<b>312,545</b>	<b>953,187</b>	<b>443,451</b>	<b>106,470</b>	<b>68,222</b>	<b>49,288</b>	<b>693,197</b>	<b>200,519</b>	<b>760,976</b>
<b>Ratebase Subtotal Percent</b>	<b>100%</b>	<b>34%</b>	<b>14%</b>	<b>6%</b>	<b>9%</b>	<b>3%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>1%</b>	<b>1%</b>	<b>7%</b>	<b>2%</b>	<b>8%</b>
<b>T&amp;D Subtotal</b>	<b>\$ 4,885,964</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 550,515</b>	<b>\$ 839,309</b>	<b>\$ 311,042</b>	<b>\$ 946,069</b>	<b>\$ 440,140</b>	<b>\$ 105,675</b>	<b>\$ -</b>	<b>\$ 49,288</b>	<b>\$ 688,064</b>	<b>\$ 200,519</b>	<b>\$ 755,342</b>
<b>T&amp;D Allocator</b>	<b>100%</b>	<b>0%</b>	<b>0%</b>	<b>11%</b>	<b>17%</b>	<b>6%</b>	<b>19%</b>	<b>9%</b>	<b>2%</b>	<b>0%</b>	<b>1%</b>	<b>14%</b>	<b>4%</b>	<b>15%</b>
General Plant														
Land & Land Rights	646	216	91	38	57	21	65	30	7	5	3	47	14	52
Structures and Improvements	299,952	100,538	42,088	17,453	26,677	9,861	30,073	13,991	3,359	2,152	1,555	21,870	6,326	24,009
Office Furniture and Equipment	60,177	20,170	8,444	3,502	5,352	1,978	6,033	2,807	674	432	312	4,388	1,269	4,817
Transportation Equipment	354,203	-	-	39,909	60,845	22,549	68,584	31,907	7,661	-	3,573	49,881	14,536	54,758
Stores Equipment	76	26	11	4	7	3	8	4	1	1	0	6	2	6
Tools, Shop and Garage Equipment	1,597	535	224	93	142	53	160	74	18	11	8	116	34	128
Laboratory Equipment	13,305	4,459	1,867	774	1,183	437	1,334	621	149	95	69	970	281	1,065
Power Operated Equipment	42,810	14,349	6,007	2,491	3,807	1,407	4,292	1,997	479	307	222	3,121	903	3,427
Communication Equipment	37,637	12,615	5,281	2,190	3,347	1,237	3,773	1,756	421	270	195	2,744	794	3,013
Miscellaneous Equipment	8,058	2,701	1,131	469	717	265	808	376	90	58	42	588	170	645
Other Tangible Equipment	219	73	31	13	19	7	22	10	2	2	1	16	5	18
<b>Total Plant In Service</b>	<b>\$ 10,325,971</b>	<b>\$ 3,342,334</b>	<b>\$ 1,399,183</b>	<b>\$ 620,141</b>	<b>\$ 947,725</b>	<b>\$ 350,364</b>	<b>\$ 1,068,339</b>	<b>\$ 497,023</b>	<b>\$ 119,333</b>	<b>\$ 71,555</b>	<b>\$ 55,268</b>	<b>\$ 776,943</b>	<b>\$ 224,852</b>	<b>\$ 852,911</b>
<b>Total Rate Base Percent</b>	<b>100.0%</b>	<b>32.4%</b>	<b>13.6%</b>	<b>6.0%</b>	<b>9.2%</b>	<b>3.4%</b>	<b>10.3%</b>	<b>4.8%</b>	<b>1.2%</b>	<b>0.7%</b>	<b>0.5%</b>	<b>7.5%</b>	<b>2.2%</b>	<b>8.3%</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Expense Classification*

Source of Supply  
 Treatment  
 Pumping  
 Reservoirs  
 Distribution Lines  
 Transmission

	Treatment		Distribution Facilities			Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution Facilities	Billing
	Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH							
Source of Supply	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Treatment	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumping	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoirs	-	-	15.22	-	8.78	-	-	-	-	-	-	-	-	-	-
Distribution Lines	-	-	3.04	7.08	1.70	-	-	-	-	-	-	5.80	-	6.37	-
Transmission	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-

	Total	Treatment Base	Treatment MD	Capacity - Treat			Extra Capacity - Distribution			Extra Capacity - Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution	
				Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH	Facilities	Billing								
(1) Source of Supply	22.30	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(2) Power & Chemicals	22.30	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(3) Loadings	22.30	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(4) Treatment	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(5) Other Treatment 1	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(6) Other Treatment 2	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(7) System Pumping	22.30	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(8) Hydrants	1.00	-	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-
(9) Transmission Mains City	24.00	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-	-	-	-
(10) Transmission Mains Outside City	24.00	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-	-	-	-
(11) Transmission Mains Common to All	24.00	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-	-	-	-
(12) Distribution Storage	24.00	-	-	15.22	-	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-
(13) Distribution Mains	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	-	5.80	-	-	-	-	6.37	-
(14) Services	1.00	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-
(15) Meters	1.00	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-
(16) Min System Inside	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	-
(17) Min System Outside	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	-
(18) Distribution Mains Inside	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	-	-	-	-	6.37	-
(19) Distribution Mains Outside	24.00	-	-	3.04	7.08	1.70	-	-	-	-	-	5.80	-	-	-	-	-	6.37	-
(20) Hydrants	1.00	-	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-
(21) T&D Other	29.80	-	-	-	-	-	15.22	7.08	1.70	-	-	-	5.80	-	-	-	-	-	-
(22) Meter Reading	1.00	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-	-	-
(23) Billing	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
(24) Uncollectible Accounts	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00
(25) Miscellaneous	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-
(26) Customer Rec & Collection	1.00	-	-	-	-	-	-	-	-	-	-	1.00	-	-	-	-	-	-	-



**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Expense Classification*

Source of Supply  
 Treatment  
 Pumping  
 Reservoirs  
 Distribution Lines  
 Transmission

	Treatment		Distribution Facilities			Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution Facilities	Billing
	Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH							
Source of Supply	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Treatment	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumping	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoirs	-	-	15.22	-	8.78	-	-	-	-	-	-	-	-	-	-
Distribution Lines	-	-	3.04	7.08	1.70	-	-	-	-	-	-	5.80	-	6.37	-
Transmission	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-

	Check = 0	Capacity - Treat		Extra Capacity - Distribution			Extra Capacity - Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution	
		Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH						Facilities	Billing
(1) Source of Supply	-	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(2) Power & Chemicals	-	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(3) Loadings	-	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(4) Treatment	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(5) Other Treatment 1	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(6) Other Treatment 2	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(7) System Pumping	-	68%	32%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(8) Hydrants	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(9) Transmission Mains City	-	0%	0%	0%	0%	0%	63%	30%	7%	0%	0%	0%	0%	0%	0%	0%
(10) Transmission Mains Outside City	-	0%	0%	0%	0%	0%	63%	30%	7%	0%	0%	0%	0%	0%	0%	0%
(11) Transmission Mains Common to All	-	0%	0%	0%	0%	0%	63%	30%	7%	0%	0%	0%	0%	0%	0%	0%
(12) Distribution Storage	-	0%	0%	63%	0%	37%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
(13) Distribution Mains	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%	0%	0%
(14) Services	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%
(15) Meters	-	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%
(16) Min System Inside	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%
(17) Min System Outside	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%
(18) Distribution Mains Inside	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%	0%	0%
(19) Distribution Mains Outside	-	0%	0%	13%	30%	7%	0%	0%	0%	0%	0%	24%	0%	27%	0%	0%
(20) Hydrants	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
(21) T&D Other	-	0%	0%	0%	0%	0%	51%	24%	6%	0%	0%	19%	0%	0%	0%	0%
(22) Meter Reading	-	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%
(23) Billing	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
(24) Uncollectible Accounts	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%
(25) Miscellaneous	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
(26) Customer Rec & Collection	-	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Expense Classification*

	Treatment		Distribution Facilities			Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution Facilities	Billing
	Treatment Base	Treatment MD	Distribution Base	Distribution MD	Distribution MH	Transmission Base	Transmission MD	Transmission MH							
Source of Supply	22.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Treatment	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumping	15.22	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoirs	-	-	15.22	-	8.78	-	-	-	-	-	-	-	-	-	-
Distribution Lines	-	-	3.04	7.08	1.70	-	-	-	-	-	-	5.80	-	6.37	-
Transmission	-	-	-	-	-	15.22	7.08	1.70	-	-	-	-	-	-	-

**Capacity - Treat      Extra Capacity - Distribution      Extra Capacity - Transmission**

Expense	Amount	Treatment		Distribution			Transmission			Meters	Services	Cust. Serv.	Fire Prot.	Hydrants	Distribution Facilities	Billing
		Base	MD	Base	MD	MH	Base	MD	MH							
(1) Source of Supply	\$ 1,064,388	1,064,388	-	-	-	-	-	-	-	-	-	-	-	-	-	
(2) Power & Chemicals	1,289,925	1,289,925	-	-	-	-	-	-	-	-	-	-	-	-	-	
(4) Treatment	1,776,769	1,212,621	564,148	-	-	-	-	-	-	-	-	-	-	-	-	
(7) System Pumping	566,768	386,811	179,956	-	-	-	-	-	-	-	-	-	-	-	-	
(8) Hydrants	53,661	-	-	-	-	-	-	-	-	-	-	-	53,661	-	-	
(9) Transmission Mains City	506,670	-	-	-	-	-	321,302	149,479	35,889	-	-	-	-	-	-	
(12) Distribution Storage	197,707	-	-	125,375	-	72,332	-	-	-	-	-	-	-	-	-	
(13) Distribution Mains	957,896	-	-	121,439	282,601	67,851	-	-	-	-	-	231,676	-	254,329	-	
(14) Services	27,422	-	-	-	-	-	-	-	-	27,422	-	-	-	-	-	
(15) Meters	499,569	-	-	-	-	-	-	-	-	499,569	-	-	-	-	-	
(22) Meter Reading	419,094	-	-	-	-	-	-	-	-	419,094	-	-	-	-	-	
(23) Billing	313,698	-	-	-	-	-	-	-	-	-	-	-	-	-	313,698	
(26) Customer Rec & Collection	131,293	-	-	-	-	-	-	-	-	-	131,293	-	-	-	-	
<b>Operation and Maintenance</b>	<b>\$ 7,804,861</b>	<b>\$ 3,953,745</b>	<b>\$ 744,104</b>	<b>\$ 246,814</b>	<b>\$ 282,601</b>	<b>\$ 140,183</b>	<b>\$ 321,302</b>	<b>\$ 149,479</b>	<b>\$ 35,889</b>	<b>\$ 918,664</b>	<b>\$ 27,422</b>	<b>\$ 131,293</b>	<b>\$ 231,676</b>	<b>\$ 53,661</b>	<b>\$ 254,329</b>	<b>\$ 313,698</b>
Admin and General	2,103,844	1,065,754	200,578	66,530	76,177	37,787	86,609	40,293	9,674	247,631	7,392	35,391	62,450	14,465	68,556	84,559
Engineering	636,277	205,951	86,216	38,212	58,398	21,589	65,830	30,626	7,353	4,409	3,406	-	47,875	13,855	52,556	-
Environmental Services	115,651	37,434	15,671	6,946	10,615	3,924	11,965	5,567	1,337	801	619	-	8,702	2,518	9,553	-
Insurance	109,481	35,437	14,835	6,575	10,048	3,715	11,327	5,270	1,265	759	586	-	8,238	2,384	9,043	-
Taxes and Tax Equivalents	358,542	116,054	48,583	21,533	32,907	12,165	37,095	17,258	4,144	2,485	1,919	-	26,977	7,807	29,615	-
Administrative total	\$ 1,219,951	\$ 617,996	\$ 116,308	\$ 38,579	\$ 44,172	\$ 21,912	\$ 50,222	\$ 23,365	\$ 5,610	\$ 143,593	\$ 4,286	\$ 20,522	\$ 36,212	\$ 8,388	\$ 39,753	\$ 49,033
<b>Total Operation &amp; Maintenance Expenses</b>	<b>\$ 11,128,656</b>	<b>\$ 5,414,376</b>	<b>\$ 1,109,987</b>	<b>\$ 386,610</b>	<b>\$ 470,746</b>	<b>\$ 219,364</b>	<b>\$ 534,128</b>	<b>\$ 248,493</b>	<b>\$ 59,662</b>	<b>\$ 1,174,748</b>	<b>\$ 41,344</b>	<b>\$ 166,684</b>	<b>\$ 385,917</b>	<b>\$ 94,690</b>	<b>\$ 423,651</b>	<b>\$ 398,257</b>
Total Debt Service & Capital	10,325,971	\$ 3,342,334	\$ 1,399,183	\$ 620,141	\$ 947,725	\$ 350,364	\$ 1,068,339	\$ 497,023	\$ 119,333	\$ 71,555	\$ 55,268	\$ -	\$ 776,943	\$ 224,852	\$ 852,911	\$ -
Late Payment	(211,586)	\$ -	\$ -	\$ (26,824)	\$ (62,423)	\$ (14,987)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (51,174)	\$ -	\$ (56,178)	\$ -
Misc Service Revenues	(265,155)	\$ -	\$ -	\$ (33,615)	\$ (78,227)	\$ (18,782)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (64,130)	\$ -	\$ (70,401)	\$ -
Other Water Revenues	(339,392)	\$ -	\$ -	\$ (43,027)	\$ (100,128)	\$ (24,040)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (82,085)	\$ -	\$ (90,111)	\$ -
<b>Total Revenue Requirements</b>	<b>\$ 20,638,493</b>	<b>\$ 8,756,710</b>	<b>\$ 2,509,170</b>	<b>\$ 903,284</b>	<b>\$ 1,177,693</b>	<b>\$ 511,918</b>	<b>\$ 1,602,467</b>	<b>\$ 745,516</b>	<b>\$ 178,994</b>	<b>\$ 1,246,303</b>	<b>\$ 96,612</b>	<b>\$ 166,684</b>	<b>\$ 965,470</b>	<b>\$ 319,542</b>	<b>\$ 1,059,873</b>	<b>\$ 398,257</b>





**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Development of Allocators*

Customer Class	Treatment			Distribution			Transmission		
	Base - A	MD - A	MH - A	Base - D	MD - D	MH - D	Base - T	MD - T	MH - T
Fire Protection	-	840	4,200					840	4,200
Hydrants	-	-							
5/8" Meter	-	-							
3/4" Meter	-	-							
1" Meter	-	-							
1.5" Meter	-	-							
2" Meter	-	-							
3" Meter	-	-							
4" Meter	-	-							
6" Meter	-	-							
8" Meter	-	-							
10" Meter	-	-							
Residential and Multi Family	4,366	2,474	3,363	4,366	2,474	3,363	4,366	2,474	3,363
Comm, Gov, Interdept Usage	2,160	1,104	1,528	2,160	1,104	1,528	2,160	1,104	1,528
Industrial	140	83	112	140	83	112	140	83	112
Wholesale	2,842	1,158	1,678				2,842	1,158	1,678
Indiana University Usage	971	498	689				971	498	689
Irrigation Usage	309	806	951	309	806	951	309	806	951
<b>Total</b>	<b>10,788</b>	<b>6,962</b>	<b>12,520</b>	<b>6,974</b>	<b>4,466</b>	<b>5,953</b>	<b>10,788</b>	<b>6,962</b>	<b>12,520</b>

Customer Class	Base - A	MD - A	MH - A	Base - D	MD - D	MH - D	Base - T	MD - T	MH - T
Fire Protection	0.0%	12.1%	33.5%	0.0%	0.0%	0.0%	0.0%	12.1%	33.5%
Hydrants	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5/8" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3/4" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1.5" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
3" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
6" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
8" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
10" Meter	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Residential and Multi Family	40.5%	35.5%	26.9%	62.6%	55.4%	56.5%	40.5%	35.5%	26.9%
Comm, Gov, Interdept Usage	20.0%	15.9%	12.2%	31.0%	24.7%	25.7%	20.0%	15.9%	12.2%
Industrial	1.3%	1.2%	0.9%	2.0%	1.9%	1.9%	1.3%	1.2%	0.9%
Wholesale	26.3%	16.6%	13.4%	0.0%	0.0%	0.0%	26.3%	16.6%	13.4%
Indiana University Usage	9.0%	7.1%	5.5%	0.0%	0.0%	0.0%	9.0%	7.1%	5.5%
Irrigation Usage	2.9%	11.6%	7.6%	4.4%	18.0%	16.0%	2.9%	11.6%	7.6%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Development of Allocators*

Customer Class	Meters	Services	Cust. Serv.	D - Min	Hydrants	Distribution Facilities	Direct Fire Protection	Revenues	Customers	Volume Sales
Fire Protection	-	-	-				1	-	1	
Hydrants	-	-	-		1			1,464,903	1	
5/8" Meter	2,323,785	2,580	4,031	2,580		2,580		455,857	6,450	
3/4" Meter	5,447,075	9,071	11,339	9,071		9,071		1,425,945	15,118	
1" Meter	1,444,778	3,395	3,395	3,395		3,395		431,447	3,395	
1.5" Meter	637,715	962	721	962		962		106,092	481	
2" Meter	805,083	1,701	1,063	1,701		1,701		167,130	532	
3" Meter	291,698	557	278	557		557		67,392	93	
4" Meter	391,341	837	335	837		837		99,968	84	
6" Meter	598,028	1,393	418	1,393		1,393		164,801	70	
8" Meter	98,156	331	83	331		331		36,542	10	
10" Meter	41,458	138	30	138		138		14,121	3	
Residential and Multi Family								5,943,896		1,593,538
Comm, Gov, Interdept Usage								2,491,162		788,343
Industrial								148,842		50,973
Wholesale								2,479,465		1,037,433
Indiana University Usage								840,125		354,483
Irrigation Usage								385,328		112,669
<b>Total</b>	<b>12,079,116</b>	<b>20,964</b>	<b>21,693</b>	<b>20,964</b>	<b>1</b>	<b>20,964</b>	<b>1</b>	<b>16,888,625</b>	<b>26,760</b>	<b>3,937,439</b>

Customer Class	Meters	Services	Cust. Serv.	D - Min	Hydrants	Distribution Facilities	Direct Fire Protection	Revenues	Customers	Volume Sales
Fire Protection	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	40.5%
Hydrants	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	8.7%	0.0%	0.0%
5/8" Meter	19.2%	12.3%	18.6%	12.3%	0.0%	12.3%	0.0%	2.7%	24.1%	0.0%
3/4" Meter	45.1%	43.3%	52.3%	43.3%	0.0%	43.3%	0.0%	8.4%	56.5%	0.0%
1" Meter	12.0%	16.2%	15.7%	16.2%	0.0%	16.2%	0.0%	2.6%	12.7%	0.0%
1.5" Meter	5.3%	4.6%	3.3%	4.6%	0.0%	4.6%	0.0%	0.6%	1.8%	0.0%
2" Meter	6.7%	8.1%	4.9%	8.1%	0.0%	8.1%	0.0%	1.0%	2.0%	0.0%
3" Meter	2.4%	2.7%	1.3%	2.7%	0.0%	2.7%	0.0%	0.4%	0.3%	0.0%
4" Meter	3.2%	4.0%	1.5%	4.0%	0.0%	4.0%	0.0%	0.6%	0.3%	0.0%
6" Meter	5.0%	6.6%	1.9%	6.6%	0.0%	6.6%	0.0%	1.0%	0.3%	0.0%
8" Meter	0.8%	1.6%	0.4%	1.6%	0.0%	1.6%	0.0%	0.2%	0.0%	0.0%
10" Meter	0.3%	0.7%	0.1%	0.7%	0.0%	0.7%	0.0%	0.1%	0.0%	0.0%
Residential and Multi Family	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.2%	0.0%	0.0%
Comm, Gov, Interdept Usage	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.8%	0.0%	20.0%
Industrial	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	1.3%
Wholesale	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.7%	0.0%	26.3%
Indiana University Usage	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	0.0%	9.0%
Irrigation Usage	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.3%	0.0%	2.9%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
**Customer Allocator**

Customer Class	Number of		Meter Size	Customer Services Weighting	Weighted Time to Read a Meter	Billing Weighting Factor	Meter Equivalent Ratio (based on 5/8)	Equivalent Services	Fire Protection Equivalent Ratio	Outside =1
	Meters	Meter Costs								
Fire Protection	1.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Hydrants	1.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
5/8" Meter	6,450	\$ 360	0.63	0.6	0.6	0.6	0.40	0.40	0.0	0.0
3/4" Meter	15,118	\$ 360	0.75	0.8	0.8	0.8	0.60	0.60	0.0	0.0
1" Meter	3,395	\$ 426	1.00	1.0	1.0	1.0	1.00	1.00	0.0	0.0
1.5" Meter	481	\$ 1,327	1.50	1.5	1.5	1.5	2.00	2.00	0.0	0.0
2" Meter	532	\$ 1,515	2.00	2.0	2.0	2.0	3.20	3.20	0.0	0.0
3" Meter	93	\$ 3,145	3.00	3.0	3.0	3.0	6.00	6.00	0.0	0.0
4" Meter	84	\$ 4,677	4.00	4.0	4.0	4.0	10.00	10.00	0.0	0.0
6" Meter	70	\$ 8,584	6.00	6.0	6.0	6.0	20.00	20.00	0.0	0.0
8" Meter	10	\$ 9,499	8.00	8.0	8.0	8.0	32.00	32.00	0.0	0.0
10" Meter	3	\$ 13,819	10.00	10.0	10.0	10.0	46.00	46.00	0.0	0.0
12" Meter	-	\$ 20,105	12.00	12.0	12.0	12.0	86.00	86.00	0.0	0.0
Residential and Multi Family	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Comm, Gov, Interdept Usage	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Industrial	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Wholesale	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Indiana University Usage	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Irrigation Usage	0.0	\$ -	-	0.0	0.0	0.0	0.00	0.00	0.0	0.0
Private Fire 4" or Less	199.8	\$ 360	4.00	4.0	4.0	4.0	10.00	10.00	10.0	0.0
Private Fire 6"	249.7	\$ 360	6.00	6.0	6.0	6.0	20.00	20.00	20.0	0.0
Private Fire 8"	63.0	\$ 360	8.00	8.0	8.0	8.0	32.00	32.00	32.0	0.0
Private Fire 10"	4.0	\$ 360	10.00	10.0	10.0	10.0	46.00	46.00	46.0	0.0
Private Fire 12"	6.8	\$ 360	12.00	12.0	12.0	12.0	86.00	86.00	86.0	0.0
Fire Pro 5/8" Meter In	5,069	\$ -	0.63	0.0	0.0	0.0	0.40	0.00	0.4	0.0
Fire Pro 3/4" Meter In	10,412	\$ -	0.75	0.0	0.0	0.0	0.60	0.00	0.6	0.0
Fire Pro 1" Meter In	2,772	\$ -	1.00	0.0	0.0	0.0	1.00	0.00	1.0	0.0
Fire Pro 1.5" Meter In	406	\$ -	1.50	0.0	0.0	0.0	2.00	0.00	2.0	0.0
Fire Pro 2" Meter In	426	\$ -	2.00	0.0	0.0	0.0	3.20	0.00	3.2	0.0
Fire Pro 3" Meter In	54	\$ -	3.00	0.0	0.0	0.0	6.00	0.00	6.0	0.0
Fire Pro 4" Meter In	57	\$ -	4.00	0.0	0.0	0.0	10.00	0.00	10.0	0.0
Fire Pro 6" Meter In	49	\$ -	6.00	0.0	0.0	0.0	20.00	0.00	20.0	0.0
Fire Pro 8" Meter In	6	\$ -	8.00	0.0	0.0	0.0	32.00	0.00	32.0	0.0
Fire Pro 10" Meter In	-	\$ -	10.00	0.0	0.0	0.0	46.00	0.00	46.0	0.0
Fire Pro 5/8" Meter Out	1,316	\$ -	0.63	0.0	0.0	0.0	0.40	0.00	0.4	1.0
Fire Pro 3/4" Meter Out	4,881	\$ -	0.75	0.0	0.0	0.0	0.60	0.00	0.6	1.0
Fire Pro 1" Meter Out	605	\$ -	1.00	0.0	0.0	0.0	1.00	0.00	1.0	1.0
Fire Pro 1.5" Meter Out	52	\$ -	1.50	0.0	0.0	0.0	2.00	0.00	2.0	1.0
Fire Pro 2" Meter Out	67	\$ -	2.00	0.0	0.0	0.0	3.20	0.00	3.2	1.0
Fire Pro 3" Meter Out	15	\$ -	3.00	0.0	0.0	0.0	6.00	0.00	6.0	1.0
Fire Pro 4" Meter Out	-	\$ -	4.00	0.0	0.0	0.0	10.00	0.00	10.0	1.0
Fire Pro 6" Meter Out	-	\$ -	6.00	0.0	0.0	0.0	20.00	0.00	20.0	1.0
Fire Pro 8" Meter Out	-	\$ -	8.00	0.0	0.0	0.0	32.00	0.00	32.0	1.0
Fire Pro 10" Meter Out	-	\$ -	10.00	0.0	0.0	0.0	46.00	0.00	46.0	1.0

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Unit Costs*

Rate Class - Units	Extra Capacity - Extra Capacity -				Meters	Services	Cust. Serv.	Distribution Facilities	Billing
	Total	Treatment Base	Distribution Base	Transmission Base					
5/8" Meter	-	-	-	-	2,323,785	2,580	4,031	2,580	6,450
3/4" Meter	-	-	-	-	5,447,075	9,071	11,339	9,071	15,118
1" Meter	-	-	-	-	1,444,778	3,395	3,395	3,395	3,395
1.5" Meter	-	-	-	-	637,715	962	721	962	481
2" Meter	-	-	-	-	805,083	1,701	1,063	1,701	532
3" Meter	-	-	-	-	291,698	557	278	557	93
4" Meter	-	-	-	-	391,341	837	335	837	84
6" Meter	-	-	-	-	598,028	1,393	418	1,393	70
8" Meter	-	-	-	-	98,156	331	83	331	10
10" Meter	-	-	-	-	41,458	138	30	138	3
Residential and Multi Family	4,366	4,366	4,366	-	-	-	-	-	-
Comm, Gov, Interdept Usage	2,160	2,160	2,160	-	-	-	-	-	-
Industrial	140	140	140	-	-	-	-	-	-
Wholesale	2,842		2,842	-	-	-	-	-	-
Indiana University Usage	971		971	-	-	-	-	-	-
Irrigation Usage	309	309	309	-	-	-	-	-	-
<b>Total</b>	<b>10,788</b>	<b>6,974</b>	<b>10,788</b>	<b>12,079,116</b>	<b>20,964</b>	<b>21,693</b>	<b>20,964</b>	<b>20,964</b>	<b>26,760</b>

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Unit Costs*

Rate Class - Revenue Requirements	Total	Extra Capacity - Extra Capacity -			Meters	Services	Cust. Serv.	Distribution Facilities	Billing	Revenue Requirements
		Treatment Base	Distribution Base	Transmission Base						
5/8" Meter	-	-	-	239,764	11,889	30,974	130,431	95,987	509,045	
3/4" Meter	-	-	-	562,020	41,804	87,125	458,605	224,998	1,374,553	
1" Meter	-	-	-	149,070	15,646	26,088	171,648	50,528	412,980	
1.5" Meter	-	-	-	65,798	4,431	5,541	48,611	7,155	131,537	
2" Meter	-	-	-	83,067	7,839	8,169	86,002	7,911	192,990	
3" Meter	-	-	-	30,097	2,565	2,138	28,135	1,380	64,315	
4" Meter	-	-	-	40,378	3,856	2,572	42,300	1,245	90,351	
6" Meter	-	-	-	61,704	6,421	3,212	70,444	1,037	142,817	
8" Meter	-	-	-	10,128	1,524	635	16,718	154	29,158	
10" Meter	-	-	-	4,278	636	231	6,977	45	12,166	
Residential and Multi Family	3,543,966	565,470	648,541	-	-	-	-	-	6,904,052	
Comm, Gov, Interdept Usage	1,753,243	279,745	320,841	-	-	-	-	-	3,313,989	
Industrial	113,363	18,088	20,745	-	-	-	-	-	224,112	
Wholesale	2,307,211	-	422,217	-	-	-	-	-	3,294,760	
Indiana University Usage	788,356	-	144,268	-	-	-	-	-	1,175,137	
Irrigation Usage	250,572	39,981	45,854	-	-	-	-	-	1,020,953	
<b>Total</b>	<b>\$ 8,756,710</b>	<b>\$ 903,284</b>	<b>\$ 1,602,467</b>	<b>\$ 1,246,303</b>	<b>\$ 96,612</b>	<b>\$ 166,684</b>	<b>\$ 1,059,873</b>	<b>\$ 398,257</b>	<b>\$ 20,638,493</b>	

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Unit Costs*

Rate Class - Unit Costs	Total	Extra Capacity - Extra Capacity -			Meters	Services	Cust. Serv.	Distribution	
		Treatment Base	Distribution Base	Transmission Base				Facilities	Billing
	Units								
5/8" Meter	6,450	\$ -	\$ -	\$ -	\$ 37.18	\$ 1.84	\$ 4.80	\$ 20.22	\$ 14.88
3/4" Meter	15,118	-	-	-	37.18	2.77	5.76	30.33	14.88
1" Meter	3,395	-	-	-	43.91	4.61	7.68	50.56	14.88
1.5" Meter	481	-	-	-	136.87	9.22	11.53	101.12	14.88
2" Meter	532	-	-	-	156.26	14.75	15.37	161.79	14.88
3" Meter	93	-	-	-	324.49	27.65	23.05	303.35	14.88
4" Meter	84	-	-	-	482.60	46.09	30.74	505.58	14.88
6" Meter	70	-	-	-	885.70	92.17	46.10	1,011.16	14.88
8" Meter	10	-	-	-	980.08	147.47	61.47	1,617.85	14.88
10" Meter	3	-	-	-	1,425.85	211.99	76.84	2,325.66	14.88
Residential and Multi Family	1,593,538	2.22	0.35	0.41	-	-	-	-	-
Comm, Gov, Interdept Usage	788,343	2.22	0.35	0.41	-	-	-	-	-
Industrial	50,973	2.22	0.35	0.41	-	-	-	-	-
Wholesale	1,037,433	2.22	-	0.41	-	-	-	-	-
Indiana University Usage	354,483	2.22	-	0.41	-	-	-	-	-
Irrigation Usage	112,669	2.22	0.35	0.41	-	-	-	-	-

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Unit Costs*

Rate Class - Monthly Unit Costs	Total	Treatment	Distribution	Transmission	Meters	Services	Cust. Serv.	Distribution Facilities	Billing	Total Customer COS	Current Customer Charge
	Units										
5/8" Meter	6,450	\$ -	\$ -	\$ -	\$ 3.10	\$ 0.15	\$ 0.40	\$ 1.69	\$ 1.24	\$ 6.58	\$ 5.89
3/4" Meter	15,118	-	-	-	3.10	0.23	0.48	2.53	1.24	7.58	7.86
1" Meter	3,395	-	-	-	3.66	0.38	0.64	4.21	1.24	10.14	10.59
1.5" Meter	481	-	-	-	11.41	0.77	0.96	8.43	1.24	22.80	18.39
2" Meter	532	-	-	-	13.02	1.23	1.28	13.48	1.24	30.25	26.20
3" Meter	93	-	-	-	27.04	2.30	1.92	25.28	1.24	57.79	60.55
4" Meter	84	-	-	-	40.22	3.84	2.56	42.13	1.24	89.99	99.57
6" Meter	70	-	-	-	73.81	7.68	3.84	84.26	1.24	170.83	197.13
8" Meter	10	-	-	-	81.67	12.29	5.12	134.82	1.24	235.15	294.69
10" Meter	3	-	-	-	118.82	17.67	6.40	193.81	1.24	337.94	392.24
Residential and Multi Family	1,593,538	\$ 2.78	\$ 0.95	\$ 0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4.33	\$ 3.73
Comm, Gov, Interdept Usage	788,343	2.73	0.89	0.58	-	-	-	-	-	4.20	3.16
Industrial	50,973	2.81	0.97	0.61	-	-	-	-	-	4.40	2.92
Wholesale	1,037,433	2.63	-	0.55	-	-	-	-	-	3.18	2.39
Indiana University Usage	354,483	2.73	-	0.59	-	-	-	-	-	3.32	2.37
Irrigation Usage	112,669	4.80	2.97	1.29	-	-	-	-	-	9.06	3.42

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Fire Protection*

**Allocation of Costs to Public and Private Fire Service - Base Extra Capacity Method 2020**

Allocated Fire Protection Costs	\$ 1,418,235
Direct Fire Protection	319,557
<b>Total Fire Protection Costs</b>	<b>1,737,792</b>

<b>Private Fire Service Allocation</b>	197,944
Fire Service Equivalent Units	56,804
Charge per Equivalent Unit	3.48

Line No.	Private Fire Meter Size (Inches)	Number of Services	Demand Factor	Equivalent Connections	Annual Charge	Monthly Rate	Customer and Billing	Cost of Service		% Change
								Meter \$/Month	Current Meter \$/Month	
4	4	200	38.32	7,654	\$ 26,673	\$ 11.13	\$ 1.24	\$ 12.37	\$ 9.86	25%
5	6	250	111.31	27,791	\$ 96,842	32.32	1.24	33.56	27.40	22%
6	8	63	237.21	14,944	\$ 52,076	68.88	1.24	70.12	56.15	25%
7	10	4	426.58	1,706	\$ 5,946	123.88	1.24	125.12	98.34	27%
8	12	7	689.04	4,708	\$ 16,408	200.09	1.24	201.33	155.05	30%



**Bloomington Water Department  
Cost of Service Study FY2020**

**Fire Protection**

**Public Fire Protection**

Fire Protection	830,267
Hydrants	220,013
Total	1,050,280
Equivalent Meters	40,414
Annual Rate - EQ	25.99

Meter Size	Number of Customers	Factor	Equivalent Meters	Fire Protection Costs	Cost of Service Meter \$/Month	Current Meter \$/Month	% Change
Fire Pro 5/8" Meter In	5,134	1.00	5,134	133,423.31	\$ 2.17	\$ 1.96	10%
Fire Pro 3/4" Meter In	10,237	1.50	15,355	399,048.51	3.25	2.93	11%
Fire Pro 1" Meter In	2,791	2.50	6,976	181,297.09	5.41	4.89	11%
Fire Pro 1.5" Meter In	429	5.00	2,145	55,754.57	10.83	9.78	11%
Fire Pro 2" Meter In	465	8.00	3,718	96,622.48	17.33	15.64	11%
Fire Pro 3" Meter In	78	15.00	1,170	30,405.68	32.48	34.23	-5%
Fire Pro 4" Meter In	72	25.00	1,794	46,615.54	54.14	58.67	-8%
Fire Pro 6" Meter In	62	50.00	3,083	80,128.92	108.28	122.27	-11%
Fire Pro 8" Meter In	9	80.00	693	18,018.18	173.25	176.06	-2%
Fire Pro 10" Meter In	3	115.00	345	8,965.78	249.05	283.63	-12%
Fire Pro 5/8" Meter Out	1,316	1.00	1,316	53,693.60	3.40	3.28	4%
Fire Pro 3/4" Meter Out	4,881	1.50	7,322	298,855.62	5.10	4.93	3%
Fire Pro 1" Meter Out	605	2.50	1,511	61,691.86	8.50	8.22	3%
Fire Pro 1.5" Meter Out	52	5.00	258	10,544.16	17.01	16.41	4%
Fire Pro 2" Meter Out	67	8.00	535	21,823.02	27.21	26.29	4%
Fire Pro 3" Meter Out	15	15.00	221	9,030.57	51.02	57.50	-11%
Fire Pro 4" Meter Out	12	25.00	298	12,159.80	85.03	98.53	-14%
Fire Pro 6" Meter Out	8	50.00	400	16,326.45	170.07	205.29	-17%
Fire Pro 8" Meter Out	2	80.00	133	5,442.15	272.11	295.60	-8%

**Bloomington Water Department**  
**Cost of Service Study FY2020**  
*Results (by defined group)*

**TOTAL COST OF SERVICE (by defined group)**

Customer Class	Cost of Service (\$)	Projected Revenues (\$)	% Change
Fire Protection	\$ 1,745,579	\$ 1,630,512	7.1%
Meter Charges	2,959,911	2,969,294	-0.3%
Residential and Multi Family	6,904,052	5,943,896	16.2%
Comm, Gov, Interdept Usage	3,313,989	2,491,162	33.0%
Industrial	224,112	148,842	50.6%
Wholesale	3,294,760	2,479,465	32.9%
Indiana University Usage	1,175,137	840,125	39.9%
Irrigation Usage	1,020,953	385,328	165.0%
<b>Total</b>	<b>\$ 20,638,493</b>	<b>\$ 16,888,625</b>	<b>22.20%</b>