



# City of Appleton

100 North Appleton Street  
Appleton, WI 54911-4799  
[www.appleton.org](http://www.appleton.org)

## Meeting Agenda - Final-revised Utilities Committee

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Wednesday, April 7, 2021

6:45 PM

Council Chambers, 6th Floor

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### Special

1. Call meeting to order
2. Roll call of membership
3. Approval of minutes from previous meeting  
[21-0312](#) Approval of the March 9, 2021 Utilities Committee Meeting Minutes.  
  
*Attachments:* [March 9, 2021 Utilities Committee Meeting Minutes.pdf](#)
4. **Public Hearings/Apearances**
5. **Action Items**  
  
[21-0313](#) Anticipated award for Unit N-21, Spot Repairs, Protruding Tap and Mineral Deposit Removal (bids to be opened Monday, March 22, 2021).  
  
*Attachments:* [Unit N-21.pdf](#)
6. **Information Items**  
  
[21-0357](#) Follow-up to questions raised regarding contractor's use of glyphosate at stormwater sites.  
  
*Attachments:* [Follow up questions regarding glyphosate.pdf](#)  
  
[21-0314](#) Monthly Reports for February 2021:  
- Water Distribution and Meter Team Monthly Report  
  
*Attachments:* [Water Main Breaks February 2021.pdf](#)

7. Adjournment

*Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.*

*Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.*

*For questions on the agenda, contact Chris Shaw at 920-832-5945 or Paula Vandehey at 920-832-6474.*



# City of Appleton

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## Meeting Minutes - Final Utilities Committee

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Tuesday, March 9, 2021

5:00 PM

Council Chambers, 6th Floor

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1. Call meeting to order

*Chairperson Meltzer called the Utilities Committee Meeting to order at 5 p.m.*

2. Roll call of membership

**Present:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

3. Approval of minutes from previous meeting

[21-0196](#)

Approval of the February 9, 2021 Utilities Committee Meeting minutes.

**Attachments:** [February 9, 2021 Utilities Committee Meeting minutes.pdf](#)

**Smith moved, seconded by Fenton, that the Minutes be approved. Roll Call.  
Motion carried by the following vote:**

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

4. Public Hearings/Appearances

5. Action Items

[21-0228](#)

Approve 2020 Annual Stormwater Report to WDNR.

**Attachments:** [2020 MS4 Annual Report for UC w attachments.pdf](#)

**Smith moved, seconded by Fenton, that the Report Action Item be  
recommended for approval. Roll Call. Motion carried by the following vote:**

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

[21-0238](#)

Award of 2021D Stormwater Consulting Services Single Source Contract for Lightning Drive Stream Crossings and Stormwater Practices Final Design to raSmith in an amount not to exceed \$107,000.

**Attachments:** [2021D Lightning Final Design Contract Award Memo to raSmith  
03-09-2021 FINAL.pdf](#)

**Smith moved, seconded by Prohaska, that the Report Action Item be  
recommended for approval. Roll Call. Motion carried by the following vote:**

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

[21-0239](#)

Award of Single Source Contract with NES Ecological Services for 2021 Wetland Delineation Services in an amount not to exceed \$35,639.70

**Attachments:** [2021E Wetland Delineations Contract Award Memo 03-09-2021 Util Cmte Final.pdf](#)

Smith moved, seconded by Prohaska, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

[21-0240](#)

Award Single Source Unit K-21 Native Landscape Management Contract to Applied Ecological Services, Inc., in an amount not to exceed \$256,680.

**Attachments:** [K-21 contract award util memo 03-09-2021 Final.pdf](#)

Prohaska moved, seconded by Smith, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

[21-0262](#)

Award Contract Amendment #1 to AECOM for the America's Water Infrastructure Act Project in the amount of \$22,788.

**Attachments:** [utilities memo - AWIA RRA Memo 03-03-21 \(002\).pdf](#)

Otis moved, seconded by Prohaska, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith

## 6. Information Items

[21-0229](#)

Discuss Pollution Prevention Program as required by the stormwater permit.

**Attachments:** [2021 Pollution Prevention Program presentation .pdf](#)  
[2021 Pollution Prevention Program with attachments.pdf](#)

*This item was discussed.*

[21-0197](#)

Monthly Reports for January 2021:  
- Water Distribution and Meter Team Monthly Report

**Attachments:** [Water Main Breaks January 2021.pdf](#)

*The report was reviewed.*

## 7. Adjournment

Smith moved, seconded by Prohaska, that the Utilities Committee meeting be adjourned at 5:44 p.m.. Roll Call. Motion carried by the following vote:

**Aye:** 5 - Meltzer, Fenton, Otis, Prohaska and Smith



N-21 Sewer Spot Repairs, Protruding Tap & Mineral Deposit Removal (#7634074)

Owner: Appleton WI, City of

Solicitor: Appleton WI, City of

03/22/2021 01:45 PM CDT

Section Title	Line Item	Item Code	Item Description	UoFM	Quantity	Great Lakes TV Seal, Inc.	Northern Pipe, Inc.	Visu-Sewer	National Power Rodding Corp
N-21 BASE BID						Unit Price	Unit Price	Unit Price	Unit Price
						Extension	Extension	Extension	Extension
	1	1	1 Story St	each	1	\$1,100.00	\$2,350.00	\$2,977.50	\$10,000.00
	2	2	2 Eric Dr	each	1	\$2,800.00	\$7,250.00	\$2,020.00	\$12,000.00
	3	3	Meadow Grove Blvd	each	1	\$2,900.00	\$2,995.00	\$2,020.00	\$15,000.00
	4	4	4 Teiulah Av	each	1	\$3,750.00	\$4,730.00	\$4,500.00	\$15,000.00
	5	5	5 College Av	each	1	\$2,500.00	\$2,250.00	\$3,360.00	\$10,000.00
	6	6	6 College Av	each	1	\$2,500.00	\$2,250.00	\$3,255.00	\$10,000.00
	7	7	7 Forest St	each	1	\$1,900.00	\$2,250.00	\$3,520.00	\$10,000.00
	8	8	8 Lawrence St	each	1	\$2,800.00	\$3,500.00	\$1,627.50	\$12,000.00
	9	9	9 Layton Av	each	1	\$2,200.00	\$2,350.00	\$1,260.00	\$10,000.00
	10	10	10 Lee St	each	1	\$2,650.00	\$2,995.00	\$2,245.00	\$12,000.00
	11	11	11 Riverdale Dr	each	1	\$2,640.00	\$2,995.00	\$5,647.50	\$12,000.00
	12	12	12 Harris St	each	1	\$3,100.00	\$1,250.00	\$5,885.00	\$13,000.00
	13	13	13 Fidelis St	each	1	\$8,700.00	\$8,830.00	\$11,435.10	\$25,000.00
	14	14	14 Fidelis St	each	1	\$5,500.00	\$7,290.00	\$6,055.10	\$7,000.00
	15	15	15 Fidelis St	each	1	\$4,500.00	\$5,850.00	\$6,292.60	\$7,000.00
	16	16	16 Joseph St	each	1	\$5,200.00	\$7,290.00	\$6,055.10	\$7,000.00
	17	17	17 Coolidge Av	each	1	\$4,200.00	\$5,850.00	\$5,662.60	\$7,000.00
	18	18	18 Buchanan St	each	1	\$4,200.00	\$5,850.00	\$5,295.10	\$7,000.00
	19	19	19 Racine St	each	1	\$4,500.00	\$7,150.00	\$7,555.10	\$7,500.00
	20	20	20 Newberry St	each	1	\$550.00	\$650.00	\$1,150.00	\$2,500.00
	21	21	21 Fernmeadow Dr	each	1	\$750.00	\$950.00	\$3,390.00	\$2,500.00
	22	22	22 Kernan Av	each	1	\$550.00	\$750.00	\$3,390.00	\$2,500.00
	23	23	23 Kernan Av	each	1	\$550.00	\$550.00	\$1,130.00	\$2,500.00
	24	24	24 Lourdes Dr	each	1	\$550.00	\$550.00	\$1,130.00	\$2,500.00
	25	25	25 Lourdes Dr	each	1	\$550.00	\$550.00	\$1,130.00	\$2,500.00
	26	26	26 Meadowview La	each	1	\$550.00	\$1,500.00	\$1,130.00	\$2,500.00
	27	27	27 Bennett St	each	1	\$550.00	\$1,500.00	\$2,260.00	\$2,500.00
	28	28	28 Eugene St	each	1	\$950.00	\$1,225.00	\$1,200.00	\$4,000.00
	29	29	29 Bedford La	each	1	\$625.00	\$650.00	\$600.00	\$4,000.00
	30	30	30 Fernmeadow Dr	each	1	\$1,900.00	\$1,500.00	\$1,520.00	\$4,000.00
	31	31	31 Lee St	each	1	\$2,800.00	\$1,950.00	\$1,520.00	\$4,000.00
	32	32	32 Roosevelt St	each	1	\$725.00	\$750.00	\$600.00	\$4,000.00
	33	33	33 Roemer Rd	each	1	\$1,400.00	\$1,960.00	\$3,397.50	\$5,000.00
	34	34	34 Northland Av	each	1	\$725.00	\$750.00	\$1,597.50	\$4,000.00
	35	35	35 Pine St	each	1	\$1,400.00	\$1,715.00	\$3,000.00	\$6,500.00
	36	36	36 Winslow Av	each	1	\$725.00	\$750.00	\$600.00	\$4,000.00
	37	37	37 Midpark Dr	each	1	\$1,595.00	\$1,550.00	\$1,640.00	\$5,500.00
	38	38	38 Crestview Dr	each	1	\$725.00	\$750.00	\$600.00	\$4,000.00
	39	39	39 Meadowview La	each	1	\$1,600.00	\$2,050.00	\$1,890.00	\$4,200.00
	40	40	40 Ballard Rd	each	1	\$4,000.00	\$1,960.00	\$1,977.50	\$4,000.00
	41	41	41 Kernan Av	each	1	\$1,100.00	\$750.00	\$760.00	\$4,500.00
	42	42	42 Eighth St	each	1	\$1,100.00	\$750.00	\$760.00	\$4,500.00
	43	43	43 Forest St	each	1	\$1,100.00	\$1,500.00	\$760.00	\$4,500.00
	44	44	44 Reid Dr	each	1	\$1,100.00	\$15,000.00	\$980.00	\$4,500.00
	45	45	45 Lucille St	each	1	\$1,100.00	\$750.00	\$760.00	\$4,500.00

46	46 50' s/o Lynn Dr. (ext)	each	1	\$2,150.00	\$2,150.00	\$1,950.00	\$1,950.00	\$1,950.00	\$6,390.00	\$6,390.00	\$8,500.00
47	47 Cambridge Dr	each	1	\$1,395.00	\$1,395.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,360.00	\$1,360.00	\$4,500.00
48	48 Capital Dr	each	1	\$1,100.00	\$1,100.00	\$750.00	\$750.00	\$750.00	\$1,757.50	\$1,757.50	\$4,500.00
49	49 Highland Av	each	1	\$1,100.00	\$1,100.00	\$750.00	\$750.00	\$750.00	\$760.00	\$760.00	\$4,500.00
50	50 Buchanan St	each	1	\$3,000.00	\$3,000.00	\$1,950.00	\$1,950.00	\$1,950.00	\$4,380.00	\$4,380.00	\$4,500.00
51	51 Montclair Ct	each	1	\$1,100.00	\$1,100.00	\$6,600.00	\$6,600.00	\$6,600.00	\$6,055.10	\$6,055.10	\$4,500.00
52	52 Briarcliff Dr	each	1	\$895.00	\$895.00	\$1,200.00	\$1,200.00	\$1,200.00	\$760.00	\$760.00	\$4,500.00
53	53 Briarcliff Dr	each	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,770.00	\$2,770.00	\$6,500.00
54	54 Edgemere Dr	each	1	\$1,600.00	\$1,600.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,800.00	\$1,800.00	\$5,500.00
55	55 Edgemere Dr	each	1	\$3,300.00	\$3,300.00	\$1,995.00	\$1,995.00	\$1,995.00	\$3,320.00	\$3,320.00	\$7,000.00
56	56 Northland Av	each	1	\$750.00	\$750.00	\$500.00	\$500.00	\$500.00	\$1,757.50	\$1,757.50	\$4,000.00
57	57 Amethyst Dr	each	1	\$695.00	\$695.00	\$650.00	\$650.00	\$650.00	\$1,040.00	\$1,040.00	\$3,000.00
58	58 Pensar Av	each	1	\$800.00	\$800.00	\$650.00	\$650.00	\$650.00	\$1,040.00	\$1,040.00	\$3,000.00
59	59 Sandra St	each	1	\$800.00	\$800.00	\$1,300.00	\$1,300.00	\$1,300.00	\$1,040.00	\$1,040.00	\$3,000.00
60	60 Capitol Dr	each	1	\$600.00	\$600.00	\$650.00	\$650.00	\$650.00	\$3,577.50	\$3,577.50	\$3,000.00
61	61 Canary St	each	1	\$600.00	\$600.00	\$650.00	\$650.00	\$650.00	\$1,040.00	\$1,040.00	\$3,000.00
62	62 Durkee St	each	1	\$825.00	\$825.00	\$850.00	\$850.00	\$850.00	\$2,080.00	\$2,080.00	\$3,000.00
63	63 Calumet St	each	1	\$750.00	\$750.00	\$650.00	\$650.00	\$650.00	\$3,077.50	\$3,077.50	\$3,000.00
64	64 Clara St	each	1	\$1,250.00	\$1,250.00	\$1,275.00	\$1,275.00	\$1,275.00	\$1,640.00	\$1,640.00	\$3,000.00
65	65 Clara St	each	1	\$750.00	\$750.00	\$650.00	\$650.00	\$650.00	\$1,040.00	\$1,040.00	\$5,000.00
66	66 Edgewood Dr	each	1	\$750.00	\$750.00	\$650.00	\$650.00	\$650.00	\$2,037.50	\$2,037.50	\$6,500.00
67	67 Edgewood Dr	each	1	\$600.00	\$600.00	\$1,200.00	\$1,200.00	\$1,200.00	\$2,037.50	\$2,037.50	\$5,500.00
68	68 John St	each	1	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$3,237.50	\$3,237.50	\$6,000.00
69	69 Esmnt Jason Dr	each	1	\$900.00	\$900.00	\$3,500.00	\$3,500.00	\$3,500.00	\$585.00	\$585.00	\$15,000.00
70	70 Old Sleigh La	each	1	\$2,350.00	\$2,350.00	\$2,850.00	\$2,850.00	\$2,850.00	\$1,350.00	\$1,350.00	\$10,000.00
71	71 Spring St	each	1	\$2,280.00	\$2,280.00	\$2,700.00	\$2,700.00	\$2,700.00	\$7,650.00	\$7,650.00	\$15,000.00
72	72 Outagamie St	each	1	\$7,100.00	\$7,100.00	\$10,000.00	\$10,000.00	\$10,000.00	\$2,610.00	\$2,610.00	\$10,000.00
73	73 Alley n/o College Av	each	1	\$2,280.00	\$2,280.00	\$2,700.00	\$2,700.00	\$2,700.00	\$2,847.50	\$2,847.50	\$10,000.00
74	74 Apple Creek Rd	each	1	\$2,280.00	\$2,280.00	\$2,995.00	\$2,995.00	\$2,995.00	\$2,250.00	\$2,250.00	\$11,000.00
75	75 Durkee St	each	1	\$2,400.00	\$2,400.00	\$2,495.00	\$2,495.00	\$2,495.00	\$2,250.00	\$2,250.00	\$11,000.00
76	76 Durkee St	each	1	\$4,700.00	\$4,700.00	\$4,995.00	\$4,995.00	\$4,995.00	\$4,417.50	\$4,417.50	\$13,500.00
77	77 Olde Oneida St	each	1	\$2,050.00	\$2,050.00	\$2,250.00	\$2,250.00	\$2,250.00	\$2,780.00	\$2,780.00	\$13,500.00
78	78 South River St	each	1	\$2,700.00	\$2,700.00	\$2,995.00	\$2,995.00	\$2,995.00	\$4,827.50	\$4,827.50	\$25,000.00
79	79 Clark St	each	1	\$800.00	\$800.00	\$1,200.00	\$1,200.00	\$1,200.00	\$2,562.50	\$2,562.50	\$4,000.00
80	80 Clark St	each	1	\$800.00	\$800.00	\$1,200.00	\$1,200.00	\$1,200.00	\$2,562.50	\$2,562.50	\$4,000.00
81	81 Clark St	each	1	\$500.00	\$500.00	\$750.00	\$750.00	\$750.00	\$1,412.50	\$1,412.50	\$4,000.00
82	82 Clark St	each	1	\$550.00	\$550.00	\$750.00	\$750.00	\$750.00	\$1,412.50	\$1,412.50	\$4,000.00
83	83 Erb St	each	1	\$550.00	\$550.00	\$750.00	\$750.00	\$750.00	\$1,150.00	\$1,150.00	\$4,000.00
84	84 Harriman St	each	1	\$800.00	\$800.00	\$1,200.00	\$1,200.00	\$1,200.00	\$3,297.50	\$3,297.50	\$4,000.00
85	85 Pershing St	each	1	\$550.00	\$550.00	\$2,450.00	\$2,450.00	\$2,450.00	\$585.00	\$585.00	\$7,000.00
86	86 Locust St	each	1	\$1,100.00	\$1,100.00	\$2,450.00	\$2,450.00	\$2,450.00	\$2,522.50	\$2,522.50	\$6,000.00
87	87 Appleton St	each	1	\$950.00	\$950.00	\$1,500.00	\$1,500.00	\$1,500.00	\$9,360.00	\$9,360.00	\$10,000.00
88	88 Esmnt n/o Newberry St	each	1	\$3,900.00	\$3,900.00	\$3,500.00	\$3,500.00	\$3,500.00	\$7,500.00	\$7,500.00	\$65,000.00
89	89 Joint Sealing Grout	gallons	300	\$13.75	\$4,125.00	\$13.00	\$3,900.00	\$3,900.00	\$10.00	\$3,000.00	\$300,000.00
90	90 Extra Hours	each	20	\$275.00	\$5,500.00	\$245.00	\$4,900.00	\$4,900.00	\$700.00	\$7,200.00	\$14,000.00
	Base Bid Total:			\$173,885.00		\$222,435.00		\$254,800.80			\$972,700.00





## MEMO

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**TO:** Utilities Committee

**FROM:** Paula Vandehey, Director of Public Works  
Peter Neuberger, Staff Engineer

**DATE:** April 1, 2021

**SUBJECT:** Follow-up to questions raised regarding contractor's use of glyphosate at stormwater sites.

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At the March 9, 2021 meeting of the Utilities Committee, several great questions were raised regarding the City of Appleton's use of glyphosate at our stormwater sites. Additional information is provided below, in Question/Answer format.

**Question #1: How does Appleton DPW use glyphosate at its stormwater sites?**

- Targeted Spraying (from backpack) and Hand Wicking (direct application from sponge/glove)
- Acreage Site Preparation (rig spraying) prior to initial native seeding

**Question #2: How does Appleton minimize the risks associated with using chemicals?**

- Use non-chemical methods where/when cost-effective
  - Acreage mowing
  - Spot mowing
  - Hand pulling
  - Controlled burns
- Use selective herbicides rather than broad-spectrum herbicides where appropriate
- Avoid spraying on windy days
- Proper training, licensure, and PPE for applicators according to regulations and manufacturer guidelines
- Appleton's approach is very different from the one-size-fits-all approach commonly used in agriculture that accounts for the vast majority of glyphosate usage.
- Appleton and AES do not use Restricted Use Pesticides (RUP's) at stormwater sites, and AES doesn't even bother with licensure to apply such products. Such products may be restricted for a number of reasons, including evidence of groundwater contamination, etc.

**Question #3: What are the risks of not using chemicals?**

- Sites being overtaken by weeds
  - Critically important to get the upper hand on weeds during initial seeding
  - Failure means starting over from scratch
  - Properly prepped sites require less chemical usage in the long run, as native vegetation crowds out weeds
- Vastly more expensive to use the wrong tool for the job
  - Currently 84 DPW/Facilities sites that require some form of weed control
  - Use of herbicide at newer sites allows less usage in long run
  - Maintaining well-established sites with spot herbicide prevents weeds from regaining the upper hand
  - Some weeds don't see significant long-term setbacks from non-chemical approaches like mowing
- When selected for use in Appleton Stormwater sites, glyphosate generally has lower risks than alternative chemicals
  - Per EPA, determined glyphosate is not a carcinogen and there are no risks of concern to human health when used according to the label (which Appleton does)
  - Glyphosate does not have long lasting activity in the soil/environment like many other chemicals, which are marketed as providing "residual control"

**Question #4: Is Appleton Stormwater's approach similar to that used in other responsible communities' Stormwater programs?**

- Yes, very similar. We recently spoke to staff at the City of Madison regarding their program and use of chemical pesticides in general, and glyphosate in particular:
  - Like Appleton, glyphosate is a very valuable tool too when used appropriately
  - Madison described their approach as Integrated Pest Management (IPM), which evaluates sites on a case-by-case basis to limit the use of pesticides where appropriate
  - Though Appleton may not use IPM terminology, the decision-tree for how and when to use pesticides, including glyphosate, are essentially the same

Since 2008, DPW's native vegetation maintenance contract budget is essentially unchanged, while our maintenance inventory is now over 2.5 times as large. Appropriate use of pesticides, including glyphosate, has been an essential component in our program. It has allowed DPW to create and manage many beautiful native sites while drastically reducing our per-site costs. Please let us know if you have any additional questions.

## WATER MAIN BREAK/ JOINT LEAK REPORT - FEBRUARY 2021

### YEARLY WATER MAIN BREAK COMPARISON

<u>FEB. 20</u>	<u>FEB. 21</u>	<u>YTD 20</u>	<u>YTD 21</u>
8	17	19	34

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
1515 N. Durkee St.	281682	CIP	6"	1924	1/64" Crack & 4" Hole	4 Hours	1,605,569	\$9,761.86
NOTES: Reported by the Police Dept. Noise was heard on hydrant 2 weeks prior for the crack then it blew a hole.								
1308 N. Durkee St.	281766	CIP	8"	1964	1/64" Crack X 10" Split	8 Hours	11,213	\$68.18
NOTES: Crew found when snow plowing and hit water. Duration is based on soil saturation and time of call till fixed								
1332 W. Pershing St.	282023	CIP	8"	1969	1/4" Crack	4 Hours	228,062	\$1,386.62
NOTES: Call came in of water bubbling out of road. Duration is based on time of call.								
919 S. Mathias St.	282024	CIP	8"	1962	1/32" Crack	6 Hours	47,372	\$288.02
NOTES: Resident called break in. Duration is based on time of call till fixed.								

\*\*Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
Orange St. & Monroe St.	282022	CIP	6"	1967	3" & 5" Holes	4 Hours	1,262,636	\$7,676.83
NOTES: Reported by the Police Dept. Duration is based on time of call till fixed.								
2109 N. Division St.	282062	CIP	6"	1946	1/32" Crack	4 Hours	20,386	\$123.95
NOTES: Reported by the Police Dept. Duration is based on time of call till fixed.								
1606 S. Memorial Dr.	282063	CIP	8"	1928	1/32" Crack	3.5 Hours	30,000	\$182.40
NOTES: Break was found as water was bubbling out of the road. Duration is based on camera footage.								
W. Eighth St & Linwood Ave.	282100	CIP	6"	1945	2" Hole	2 Hours	154,717	\$940.68
NOTES: Break was found by driving by and found water bubbling out of road. Duration is based on time of discovery and soil saturation.								
Carpenter St. & Fremont St.	282222	DIP	12"	1973	5" Hole	3 Hours	705,547	\$4,289.73
NOTES: Call came in of water bubbling out of sidewalk. Duration is based on time of call.								

\*\*Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
John St.	282224	DIP	12"	1975	3" Hole	6 Hours	518,937	\$3,155.14
NOTES: Break was found as water was on the road. Duration was based on the amount of ice on the road.								
Richmond St. & Parkway Blvd.	282277	CIP	6"	1950-1959	1/4" Crack	4 Hours	103,145	\$627.12
NOTES: Break called in as water was in the road. Duration is based on time of call and soil saturation.								
1729 N. Elinor St.	282339	CIP	6"	1956	1/8" Crack	5 Hours	111,657	\$678.87
NOTES: Break was found as water was bubbling out of terrace. Duration is based on soil saturation.								
551 N. Story St.	282431	CIP	6"	1930	4" Hole	4 Hours	520,000	\$3,161.60
NOTES: Break was found as water was coming out of the road.								
N. Lawe St. & E. North St.	282472	CIP	6"	1913	30" X 1/32" Split	8 Hours	58,401	\$355.08
NOTES: Water bubbling in the road was reported by a resident. Duration is based on the soil saturation and gravel trench created.								

\*\*Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
219 N. Linwood Ave.	282473	DIP	12"	1972	5" Hole	4 Hours	928,409	\$5,644.73
NOTES: Break was called in my resident for water bubbling in the street. Duration was based on the amount of mud that was blown onto road.								
Harriman St. & Glendale Ave.	282651	CIP	8"	1945	1/32" Crack	4 Hours	27,181	\$165.26
NOTES: Break was called in my resident. Duration is based on the time the call came in till it was fixed.								
Ramlen Ct.	282701	CIP	6"	1957	4" Hole	4 Hours	648,305	\$3,941.69
NOTES: Break was called in by APD as water was in the road. Duration is based on the amount of mud on the road.								

In addition to the dollar value of water revenue lost, there is an average cost of \$9,000 to repair each water main break (including final restoration) and an average cost of \$630 to produce the lost water for each main break.

\*\*Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.