UTILITY COMMITTEE
Meeting Notice

Governing Body: Utility Committee of Boone, Iowa
Date of Meeting: February 16, 2026
Time of Meeting: 5:00 P.M.
Place of Meeting: City Hall Council Chambers

The City will have this meeting available via Zoom. To join the meeting via internet and/or phone please use the link and/or phone number below. If your computer does not have a mic and you wish to speak, you will have to call in.

https://us06web.zoom.us/j/88588052878?pwd=iRlpP1AxWaQYhSLia5afxpHwnGBEvX.1
Meeting ID: 885 8805 2878
Passcode: 130560
Phone: 1-301-715-8592 or 1-253-215-8782

1. Call Meeting to Order.
2. Approve Minutes from the December 15, 2025, Meeting.
3. Request to Remove Sewer Fees from Water Bill, 1509 Crawford Street. – Vicko Priester.
4. Request to Dispute Sump Pump Inspection Requirements, 520 S. Story Street. – Kyle Fesenmeyer.
5. Review the December 2025 and January 2026 US Water Monthly Reports.
6. Meter Upgrade Report.
    a. December
    b. January
7. Stop Box Repair/Shut Off Report.
    a. December
    b. January
8. Other Business.
9. Adjourn.

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The City will have this meeting available via Zoom. To join the meeting via internet and/or phone please use the link and/or phone number below. If your computer does not have a mic and you wish to speak, you will have to call in.

https://us06web.zoom.us/j/85909872655?pwd=xHxNlcDcobeMt7Nw074K0aaqJ7eMiJ.1
Meeting ID: 859 0987 2655
Passcode: 352005
Phone: 1-301-715-8592 or 1-253-215-8782

1. Call Meeting to Order.

Present: Angstrom, Moorman, and Byrd
Absent: none
Others present: Andrews, Elmquist, Montag, Majors, Katie Kinsey. By Zoom: Simon McCormack.

2. Approve Minutes from the October 20, 2025, Meeting.

Moorman moved; Byrd seconded to approve the minutes from October 20, 2025, meeting. Ayes: all those in attendance. Nays: none.

3. Water Treatment Plant Ground Storage Reservoir Rehabilitation Bids.

Kinsey reported that the bid letting for the Water Treatment Plant Ground Storage Reservoir Rehabilitation project was held on December 3, 2025. Three (3) bids were received, with the apparent low bidder being Minturn, Inc. from Brooklyn, Iowa, in the amount of $1,178,600.00 for the Base Bid plus Bid Alternate A. Elmquist noted that the project will be funded through the $500,000.00 CDBG Grant, along with water fund cash. Byrd moved; Moorman seconded to recommend to full Council to accept the low bid from Minturn, Inc. in the amount of $1,178,600.00 for the Base Bid plus Bid Alternate A. Ayes: all those in attendance. Nays: none.

4. Discuss Water Tower Options.

Kinsey and McCormack, Short Elliott Hendrickson, Inc. (SEH), stated they are in the process of designing the water tower that will need to be constructed near the Daisy site and provided three (3) water tower options to discuss:

A. Composite Elevated Water Storage Tank

Consists of a welded carbon-steel storage tank resting on a steel-reinforced concrete support column. It is durable, low-maintenance, and aesthetically pleasing but may require specialized field assembly.

B. Fluted Steel Column Elevated Water Storage Tank

Consists of a welded carbon-steel water storage tank resting on a steel support column. The all-steel, fluted design offers strength, aesthetics, cost-effective construction and durability, but requires more painting, ongoing maintenance, and may face variable steel costs.

C. Single Pedestal Spheroid Elevated Water Storage Tank

A single pedestal spheroid elevated water tower comprised of welded steel construction supported by a single cylindrical welded steel support pedestal and a flared conical base. It is cost-efficient but requires future painting and variable steel costs.

The Committee discussed the cost comparison and maintenance costs between the three (3) water towers provided to SEH by two (2) water tower construction firms. The composite and spheroid options were similarly priced, and SEH recommended bidding both options. Byrd moved; Moorman seconded to recommend to full Council the composite water tower due to its low maintenance requirements and durable structure. Ayes: all those in attendance. Nays: none.

5. Review the October and November 2025 US Water Monthly Report.

The Committee reviewed the October and November 2025 US Water Monthly Report.

6. Meter Upgrade Report.
    a. October

Staff installed thirty-three (33) meters in October, four (4) of those being new service meters.

    b. November

Staff installed fifty-three (53) meters in November, eighteen (18) of those being new service meters.

7. Stop Box Repair/Shut Off Report.
    a. October

Staff reported that twenty (20) accounts qualified to be on the shut-off list with $5,066.47 collected. There are one hundred eighty-one (181) stop boxes that need repaired, with seventy-eight (78) of those having lead service lines.

    b. November

Staff reported shut offs were not done in November due to the holiday. There are one hundred eighty-one (181) stop boxes that need repaired, with seventy-seven (77) of those having lead service lines.

8. Other Business.

9. Adjourn.

With no further business coming before the Committee the meeting adjourned at 5:23 p.m.

Kim Majors

From: priestervic <priestervic@gmail.com>
Sent: Wednesday, February 4, 2026 4:04 PM
To: Clerk
Subject: 1509 crawford st.

Some people who received this message don't often get email from priestervic@gmail.com. Learn why this is important

To the utility board

I am emailing you in regards to water bill at 1509 Crawford st boone iowa. I recently moved to Oklahoma and put the house on the market forsale. A week after the house was put on the market we had a basement wall collaps. The water was supposed to be shut off and no one imformed me that the valve at the curb was faulty and un able to be shut off. Due to this pipes busted in my house and flooded it. With no one living there it went un seen for some time. Now i have a bill for $13,000 from the water and sewer. I am asking that the sewer fees be removed as the water didnt go down the drain and was pump out of my basement. I am also asking for some grace to come up with the money to pay for the water as it is a large amount of money and my insurance is not covering any of the damage because the water was supposed to be turned off.
Thank you for your time and please let me know your decision.

Vicko Priester

Sent from my T-Mobile 5G Device

Boone City Council
Staff Report

Subject: Large Water/Sewer Bill at 1509 Crawford Street

Background: This account was put in Vicko Priester's name from 2/2/2021 – 5/13/24, when he ended his service for a tenant to move in, he was still being billed for I&I Surcharges.

On 4/25/25 his tenant moved out and the account was placed back into his name, combining the I&I only account with the active water/sewer account. The average consumption for this property was around 20cf for 4 months, then we shut off for non-payment on 7/22/25 @ 1:58pm.

There was 4 months of 0 consumption and no requests for water to be turned back on at this property. On 8/14/25 Vicko called to inquire about I&I Surcharges on the account, but nothing was said about the water being off or anything about a wall collapse.

12/30/25 Vicko called to request water be turned off at the curb as he has broken pipes. Water Service went out to find a new style stop box that just spins, there was no pressure at the valve. Lance called Vicko back to advise that we were unable to get the water turned off because of the inoperable curb stop valve.

1/29/26 Considering Vicko's payment history, we sent a letter of Intent to Certify a lien due by 3/2/26.

2/4/26 Vicko called to ask if we could drop the sewer charges on his bill from the leak. He advised that he is working on getting the situation resolved and asked us not to put a lien against the property. We advised that we could not make that decision, but that he would need to put in a request to the Utility Committee.

Analysis: Due to the vacancy at this property, we are unaware of how long the pipes had been broken. The leak spans over 2 months of bills, totaling $12,860.25. Of that total, $7,401.35 is in sewer charges. According to Vicko's request he stated that a week after listing for sale, a basement wall had collapsed. The listing was located on Realtor.com it appears it was listed on 7/24/25 and removed on 8/9/25. Knowing that a wall had collapsed he left all utilities exposed to the Iowa winter.

Options:

1. Give a full reduction of the requested sewer charges = $7,401.35
2. Give a 50% reduction of the requested sewer charges = $3,700.68
3. Claim negligence & request a 12-month payment plan for the leak; $12,860.25/12 = $1,071.69 + monthly minimum bills.

Staff Recommendation:
Staff recommends option 3

Kim Majors

From:
Sent: Tuesday, February 10, 2026 10:22 PM
To: Clerk
Subject: Fwd: 520 S Story St. Sump Pump I&I Inspection

Some people who received this message don't often get email from kyle.fezz@gmail.com. Learn why this is important

Hello,

I would like to contest my sump pump inspection requirements. I have attached below my correspondence with the Public Works director who disagrees with city code. Nowhere in the code does it state that the solution must be permanent. I would like to state my case in front of said Utility Committee as requested by Mr. Andrews below. Please let me know if any more information is needed from me.

Thanks,

Kyle Fesenmeyer

Begin forwarded message:

> **From:** Waylon Andrews <wandrews@booneiowa.gov>
> **Date:** February 10, 2026 at 10:37:46 AM CST
> **To:**
> **Cc:** Josh Angus <jangus@whks.com>
> **Subject: RE: 520 S Story St. Sump Pump I&I Inspection**
>
> Mr. Fesenmeyer, I stand behind my decision to deny your attempted repair. If you so chose you may contest this decision and plead your statements to the Utility Committee. The Utility Committee meets the third Monday of every month and you would need to place a request to be on the agenda prior to the meeting. To be placed on the agenda you would need to request this through clerk@booneiowa.gov
>
> Thanks,
>
> Waylon Andrews
> City of Boone Public Works Director
> (515)-298-2253
> wandrews@booneiowa.gov

From:
Sent: Thursday, February 5, 2026 9:25 PM
To: Waylon Andrews <wandrews@booneiowa.gov>
Cc: Josh Angus <jangus@whks.com>
Subject: Re: 520 S Story St. Sump Pump I&I Inspection

Mr. Andrews,

Thank you for your quick response with the Sump Pump Program and Ordinance No. 2247 (Boone City Code §96.07(L)). I appreciate the clarification you provided regarding the City's position.

After reviewing §96.07(L) carefully, I would like to clarify the distinction between the requirements stated in the ordinance itself and the additional standards described in your letter.

Section 96.07(L) prohibits the discharge of storm water into the sanitary sewer and provides that any household with a system that permits the switching of sump pump discharge into the sanitary sewer may not continue to do so. The ordinance further authorizes the City to inspect properties and require that unlawful discharges be remedied. However, the ordinance does not specify the method by which a homeowner must eliminate such discharge or switching capability, nor does it define what constitutes an acceptable repair, permanent or otherwise.

Specifically, §96.07(L) does not reference plugs, hydraulic cement, permanent caps, or the sealing of laundry discharge piping, nor does it require that repairs be irreversible or incapable of future modification. The ordinance is outcome-based, focusing on the prevention of storm water discharge into the sanitary sewer and the elimination of active switching capability, rather than mandating a particular construction method.

Your letter states that "all required repairs must be permanent" and that "a temporary or removable plug does not meet this standard," further identifying hydraulic cement as the minimum acceptable repair. While I understand the City's desire to ensure long-term compliance, these requirements do not appear in Ordinance No. 2247 or Boone Code §96.07(L), nor are they cited to any additional ordinance, administrative rule, or formally adopted policy.

Based on the ordinance as written, my understanding is that compliance is achieved by eliminating the ability to discharge storm water into the sanitary sewer or to switch such discharge, rather than by employing a specific, permanently destructive method of alteration.

I respectfully request clarification as to whether the additional requirements described in your letter are set forth in any other provision of the Boone City Code, formally adopted regulation, or council-approved policy. Absent such authority, I believe my current remediation satisfies the requirements of §96.07(L) as enacted.

Thank you for your time and consideration. I look forward to your response.

Sincerely,
Kyle Fesenmeyer

On Feb 5, 2026, at 3:24 PM, Waylon Andrews <wandrews@booneiowa.gov> wrote:

Mr. Fesenmeyer, I am writing you to follow up on a conversation from yesterday. I have put any penalties for the sump pump program on hold for a 30 day period. Attached is a letter informing you of my decision, and the basis for that decision.

Thanks,

Waylon Andrews
City of Boone Public Works Director
(515)-298-2253
wandrews@booneiowa.gov

<520 S Story Kyle Fesenmeyer.docx>

Waylon Andrews
Public Works Director
And Project Manager

Mr. Kyle Fesenmeyer,

On February 4, we spoke by phone regarding the Sump Pump I&I Program. During that conversation, you referenced Ordinance No. 2247, also known as City of Boone Code §96.07(L). You indicated that, based on discussions you had with council members and others, you were advised to plug the tile leading to your sewer. You further stated that you had completed this work and believed that a temporary or screw-in plug met the requirements of the ordinance, and that the City was requiring measures beyond what is stated in code or law.

As the director of this program, I have consistently maintained that all required repairs must be permanent and must not allow for reconnection or switching in the future. A temporary or removable plug does not meet this standard. The minimum acceptable repair includes a permanent hydraulic cement cap installed over the existing screw-in plug, as well as a permanent seal of the laundry discharge piping.

Please refer to the code sections below, which outline the basis for these requirements.

96.07.L. Storm water, surface water, ground water, artesian well water; roof runoff, subsurface drainage, swimming pool drainage, deionized water, non-contact cooling water, and unpolluted wastewater, unless specifically authorized by the Superintendent. All sump pumps must discharge into a storm sewer, a sump pump collection system, or natural outlet, such as a grass yard area or creek, abutting the property. Sump pump outlets may be discharged into the street, however, it must not create a dangerous condition to the public, including but not limited to the formation of ice in the winter or algae in the summer. Any household that currently has a system that permits the switching of sump pump discharge into the sanitary sewer may not continue to do so. The City will not permit new connections to install any switching mechanism, which permits the switching of pump discharge into the sanitary sewer. If a homeowner discharges storm water into the sanitary sewer system that will constitute a civil infraction subject to the provisions below.
The City of Boone shall have authority to inspect residences and properties in the City to determine those which have storm water discharged into the sanitary sewer system. If a residence or property is so identified, the owner or occupant will be notified (regular first-class mail) by the City and required to remedy the unlawful discharge.

1.03 CITY POWERS.
The City may, except as expressly limited by the Iowa Constitution, and if not inconsistent with the laws of the Iowa General Assembly, exercise any power and perform any function it deems appropriate to protect and preserve the rights, privileges and property of the City and of its residents, and preserve and improve the peace, safety, health, welfare, comfort and convenience of its residents and each and every provision of this Code of Ordinances shall be deemed to be in the exercise of the foregoing powers and the performance of the foregoing functions.
(Code of Iowa, Sec. 364.1)

Waylon Andrews

P.O. Box 550
Boone, Iowa 50036-0550

Email: wandrews@booneiowa.gov
Telephone: 515-432-4211 Ext. 1400

DECEMBER 2025

City of Boone, Iowa

Water & Wastewater Treatment Facilities, Storage, and Lift Stations

Monthly Operations & Maintenance Report

Prepared by:

USW UTILITY GROUP

1406 Central Avenue
Fort Dodge, IA 50501
(515) 269-2338

Prepared For:

City of Boone

923 8th Street
Boone, IA 50036
(515) 432-4211

December 2025

City of Boone
Ondrea Elmquist, City Administrator
923 8th Street
Boone, IA 50036

December Monthly Water & Wastewater Operations Report

Dear Ms. Elmquist:

In accordance with contract requirements, we are pleased to provide the following monthly report for December 2025. Below is a list of the significant events that occurred during the month:

SUBMITTED TO: **Ondrea Elmquist**, City Administrator
Utility Committee and City Council, City of Boone
Aaron Voss, U.S. Water Services Corporation

We appreciate the opportunity to be of service to the City of Boone. We are available to discuss this report, or any other aspect of our operations, at your convenience. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

J.D. Roberts, Water Environment Plant Supervisor
USW Utility Group
(712) 259-0805
JRoberts@USWaterCorp.net

Dave Moore, Water Works Supervisor
USW Utility Group
(515) 230-3130
DMoore@USWaterCorp.net

Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		December-2024	December-2025
Water	**Units**		
Average Daily Pumped	gallons	1,512,000	1,638,000
Maximum Daily Pumped	gallons	1,690,000	1,891,000
Minimum Daily Pumped	gallons	1,251,000	1,332,000
Hardness			
Hardness - Avg Raw	grains	20.2	21.7
Hardness - Avg Finish	grains	9.8	9.9
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.61	61
Avg Finish Fl.	mg/L	.72	.67

Water Storage

During the month of December, Greene Street, Industrial Park and Clinton Street Towers were in service as well as the 2-million-gallon reservoir and 550,000-gallon contact basin for a total of 4,150,000-gallons of storage.

Maintenance Report

During the month of December, the following tasks were completed:

- Serviced CL-17 Chlorine analyzers
- Repaired Transfer Switch at high service pump station
- Fixed programing issues with SCADA at new lime slakers
- Changed oil in all three High Service Pump Motors
- Replaced tires on trailer
- Cleaned out reservoir drain line

- Rotated lime slakers
- Rotated backwash pumps and blowers
- Washed trucks and tractors
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all four CL-17 chlorine analyzers weekly
- Cleaned and serviced chlorine injector at pump station
- Replaced rooftop dehumidifier filters
- Miscellaneous cleaning around water plant

Current & Planned Projects

During the month of December, the following tasks are planned:

- Rebuild High Service Pump #2 electric check valve

Health & Safety

There were no safety violations to report for the current month.

The subjects of the weekly safety training were:

1. Compressed Gasses
2. Fall Protection
3. Chemical Labels
4. Confined Spaces
5. Defensive Driving

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	**Plant Effluent**	**Units**
Total	50.84	•	MGD
Average per day	1.64	•	MGD
Minimum	1.304	•	MGD
Maximum	2.132	•	MGD

	Wastewater Influent & Effluent Quality							
	Influent		**Effluent**					
Parameter	**Daily Ave MG/L**	**Daily Ave LBS/Day**	**Daily Max MG/L**	**Permit Daily MG/L Limit**	**7 Day Max Ave MG/L**	**Permit 7 Day Max Limit**	**30 Day Average**	**Permit 30 Day Ave**
BOD_5	**210.2**	**2920**	•	•	•	•	•	•
$CBOD_5$	•	•	**3**	•	**3**	**40**	**3**	**25**
Suspended solids	**273**	**3653**	**6**	•	**5**	**45**	**4.1**	**30**
Nitrogen Ammonia	**17.5**	**292**	**.1**	**16.00**	**.1**	•	**.1 MG/L**	**2.5 MG/L**
Nitrate Nitrogen	•	•	**252 LBS/Day**	**1075 LBS/Day**	•	•	•	**657 LBS/Day**
Dissolved Oxygen	•	•	**9.8**	**>5.0**	**9.52**	•	**8.32**	**>5.0**
pH	**7.66**	•	**8.1**	**6.5 to 9 STD Units**	**7.75**	•	**7.60**	**6.5 to 9 STD Units**

ND= No Detection

- **= No limit set**

Solids Inventory

During the month of December, we pressed 8 days (264,000 gallons) and hauled 144.24 wet tons.

Our VLR and overall treatment process continue to show steady improvement. Volatile solids increased from 60.5% in November to 65.3% in December, reflecting a sustained recovery that has taken approximately six months to achieve. While the optimal volatile solids range is around 75%, operating at 65% places us within an acceptable and stable operating range.

During the month of December, we pressed 2 days (83,000 gallons) and hauled 43.81 wet tons.

Lift Stations

All lift stations are inspected at least twice per week to ensure proper operations. Airport Road Lift Station pump #1 does not keep a prime. Electric Pump and Iowa Pump have both provided repairs, but pump continues to fail. This station is on the R&R list for replacement.

Maintenance Report

62 - (Sixty-Two) Preventive Maintenance Work orders Completed

- Cleaned moisture out of the UV bulbs
- Replaced Flocculation Drain Valve
- Changed out fluorescent bulbs to LED bulbs in the Lab
- Replaced RAS pump Disconnect Switch
- Michaels connected underground power source
- Annual Calibrations

Current & Planned Projects

- In-plant Lift Station-(Currently in Engineering)
- Preliminary Screen Install-(May 2026)
- Digester-(Currently in Engineering)
- Snedden Drive Lift Station-(Currently in Engineering)
- VertiCel System Secondary Treatment Process-(Currently in Engineering)
- Fournier Rotary Press-(Currently in Engineering)

Health, Safety and Cybersecurity

There were no safety violations to report for the current month.

The subjects of the monthly safety training were:

- Hypothermia

- Defensive Driving for Non-CMV Drivers: Speed and Space Management
- Confined Spaces
- “Free” Platforms
- Chemical Labels
- Fall Protection

Regulatory Reports

See attached documents

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY SECTION

Basic Information

S/EP #: 1

SYSTEM NAME: Boone Water Works **PWSID #:** 0819033 **MONTH:** December **YEAR:** 2025

DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl_2 Used
						Source/Entry Point (S/EP)				Distribution					
	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day	Number of Hours of Treatment Plant Operation Per Day	Quantity Used in lbs.	Finished Water (mg/L)	Number of Tests Taken*	Specify Free (F) or Total (T)	Lowest Measured Residual (mg/L)	Continuous Hours Less Than 0.3 mg/L Free or 1.5 mg/L Total	Number of Tests Taken	Lowest Measured Residual Free (mg/L)	Number With Undetected Residual	Highest Measured Residual Free (mg/L)	Ratio of CT Obtained to CT Required	Chlorine in lbs.
1	1,916	1,637	17.00	24	0.64	"C"	(F)	2.09	0	1	1.25	0	1.25	5.9	27
2	1,874	1,579	16.50	22	0.60	"C"	(F)	2.12	0	5	1.18	0	1.79	5.9	27
3	1,896	1,620	16.75	20	0.64	"C"	(F)	2.16	0	1	1.30	0	1.30	6.2	26
4	1,869	1,565	16.50	22	0.73	"C"	(F)	2.03	0	1	1.31	0	1.31	6.0	26
5	1,592	1,332	14.00	16	0.63	"C"	(F)	2.18	0	1	1.30	0	1.30	7.6	20
6	1,994	1,702	17.50	20	0.67	"C"	(F)	2.05	0	1	1.31	0	1.31	5.8	28
7	2,081	1,790	18.25	20	0.73	"C"	(F)	2.07	0	1	1.32	0	1.32	5.4	26
8	2,054	1,735	18.00	16	0.73	"C"	(F)	2.03	0	6	1.11	0	1.50	5.3	27
9	1,820	1,538	16.00	14	0.54	"C"	(F)	2.16	0	1	1.36	0	1.36	5.8	24
10	2,004	1,703	17.75	16	0.56	"C"	(F)	2.01	0	1	1.36	0	1.36	5.2	26
11	1,826	1,548	16.00	16	0.67	"C"	(F)	2.03	0	1	1.34	0	1.34	6.1	25
12	1,683	1,405	15.00	14	0.50	"C"	(F)	2.02	0	1	1.32	0	1.32	6.5	22
13	1,807	1,714	16.00	20	0.61	"C"	(F)	2.08	0	1	1.32	0	1.32	6.4	25
14	2,011	1,717	17.75	22	0.70	"C"	(F)	2.24	0	1	1.31	0	1.31	5.2	29
15	1,979	1,681	17.50	20	0.68	"C"	(F)	2.19	0	1	1.33	0	1.33	5.6	27
16	1,979	1,696	17.50	20	0.68	"C"	(F)	2.09	0	1	1.34	0	1.34	5.9	27
17	2,077	1,724	18.25	22	0.71	"C"	(F)	2.27	0	1	1.36	0	1.36	5.3	27
18	2,017	1,730	17.75	21	0.71	"C"	(F)	2.17	0	1	1.44	0	1.44	5.4	31
19	1,887	1,611	16.75	20	0.64	"C"	(F)	2.13	0	1	1.45	0	1.45	5.7	23
20	1,820	1,569	16.00	20	0.68	"C"	(F)	2.18	0	1	1.42	0	1.42	6.0	25
21	2,169	1,891	19.25	26	0.61	"C"	(F)	2.22	0	1	1.40	0	1.40	4.9	27
22	2,102	1,831	18.50	24	0.68	"C"	(F)	2.03	0	1	1.38	0	1.38	5.4	28
23	1,902	1,633	16.75	20	0.72	"C"	(F)	1.98	0	1	1.38	0	1.38	5.7	26
24	1,891	1,619	16.50	22	0.61	"C"	(F)	2.04	0	1	1.36	0	1.36	5.9	25
25	1,603	1,334	14.00	18	0.63	"C"	(F)	1.97	0	1	1.32	0	1.32	7.2	23
26	1,986	1,714	17.50	24	0.62	"C"	(F)	2.05	0	1	1.29	0	1.29	5.4	27
27	1,890	1,609	16.50	26	0.79	"C"	(F)	1.97	0	1	1.27	0	1.27	6.0	27
28	1,946	1,669	17.00	24	0.68	"C"	(F)	1.98	0	1	1.27	0	1.27	5.8	29
29	1,947	1,662	17.00	24	0.82	"C"	(F)	2.04	0	1	1.25	0	1.25	5.3	28
30	2,004	1,725	17.50	27	0.67	"C"	(F)	2.14	0	1	1.27	0	1.27	5.9	27
31	1,780	1,507	15.75	20	0.78	"C"	(F)	2.09	0	1	1.27	0	1.27	5.9	23
Total	59,406	50,790	523.00	640						40		0			808
Avg	1,916	1,638	16.88	21	0.67										26
Max	2,169	1,891	19.25	27	0.82				0				1.79		31
Min	1,592	1,332	14.00	14	0.50			1.97			1.11			4.9	20

*If continuous monitoring of chlorine is provided, enter "C" in the space provided.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 1/5/2026

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY SECTION

Turbidity Data Page 1 of 1

S/EP: #1

SYSTEM NAME: Boone Water Works **PWSID #:** 0819033 **MONTH:** December **YEAR:** 2025

DAY	Finished Water			Filter Effluent																Raw Water Turbidity (Highest Daily Reading NTU)
				#1				#2				#3				#4				
	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (NTU)	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	
1	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.09
2	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.08
3	17	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.10
4	17	0	.02	.02	.01	.02	0	.01	.01	.03	0	.01	.01	.02	0	.02	.02	.03	0	0.09
5	17	0	.02	.02	.02	.03	0	.01	.01	.02	0	.01	.01	.01	0	.01	.01	.02	0	0.09
6	15	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.13
7	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.03	0	.01	.01	.02	0	0.09
8	18	0	.02	.02	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.10
9	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	.01	.01	.02	0	0.08
10	16	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.08
11	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.01	.02	0	.01	.01	.02	0	0.09
12	16	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.10
13	14	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.10
14	16	0	.02	.02	.02	.02	0	.02	.01	.02	0	.01	.01	.02	0	.02	.01	.02	0	0.07
15	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.11
16	18	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	.01	.01	.02	0	0.07
17	18	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.01	.02	0	.02	.02	.02	0	0.15
18	19	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	.02	.01	.02	0	0.10
19	18	0	.02	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.10
20	17	0	.02	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.10
21	16	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.08
22	19	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.01	.02	0	0.07
23	19	0	.02	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	.01	.01	.02	0	0.07
24	17	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	.01	.01	.02	0	0.08
25	17	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	.02	.02	.03	0	0.08
26	15	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.01	.02	0	0.08
27	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.07
28	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.08
29	17	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.08
30	18	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
31	18	0	.02	.02	.02	.03	0	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.10
Total	534	0					0				0				0				0	
Avg																				0.09
Max			.02			.03				.03				.03				.03		0.15
Min																				0.07

**If continuous monitoring of turbidity is provided, measurements must be recorded at equal time intervals at least once every four hours or hourly for plants w/pop. >100,000.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 1/5/2026

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY

Basic Information

S/EP: #1

System Name: **PWSID #:** 819033 **Month:** December **Year:** 2025

Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)							
	Number of hours the plant operated per day.	Raw in 1000s Gallons Per Day	To System in 1000s Gallons Per Day	Quantity Used in lbs. or gal. (circle one)	Finished Water (mg/L)	Highest Daily Reading (NTU)	Highest Daily Reading Sed 1 (NTU)	Highest Daily Reading Sed 2 (NTU)	Highest Daily Reading Sed 3 (NTU)	Highest Daily Reading Sed 4 (NTU)	Gallons Of Liquid Chlorine Used 15%	Wett Well Residual		
1	17.00	1916	1637	24.00	0.64	0.09	0.71				16.80	0.66		
2	16.50	1874	1579	22.00	0.60	0.08	1.73				16.00	0.64		
3	16.75	1896	1620	20.00	0.64	0.10	1.50				17.00	0.66		
4	16.50	1869	1565	22.00	0.73	0.09	1.74				16.00	0.66		
5	14.00	1592	1332	16.00	0.63	0.09	1.94				13.00	0.71		
6	17.50	1994	1702	20.00	0.67	0.13	2.08				17.70	0.66		
7	18.25	2081	1790	20.00	0.73	0.09	2.86				17.60	0.67		
8	18.00	2054	1735	16.00	0.73	0.10	1.61				17.10	0.67		
9	16.00	1820	1538	14.00	0.54	0.08	0.99				15.10	0.64		
10	17.75	2004	1703	16.00	0.56	0.08	1.74				17.20	0.63		
11	16.00	1826	1548	16.00	0.67	0.09	2.46				15.10	0.67		
12	15.00	1683	1405	14.00	0.50	0.10	2.26				14.00	0.66		
13	16.00	1807	1714	20.00	0.61	0.10	2.01				17.00	0.69		
14	17.75	2011	1717	22.00	0.70	0.07	2.87				17.40	0.65		
15	17.50	1979	1681	20.00	0.68	0.11	2.12				17.00	0.69		
16	17.50	1979	1696	20.00	0.68	0.07	2.35				16.00	0.71		
17	18.25	2077	1724	22.00	0.71	0.15	4.40				17.00	0.69		
18	17.75	2017	1730	21.00	0.71	0.10	1.85				16.00	0.69		
19	16.75	1887	1611	20.00	0.64	0.10	1.79				15.50	0.69		
20	16.00	1820	1569	20.00	0.68	0.10	0.90				15.00	0.69		
21	19.25	2169	1891	26.00	0.61	0.08	0.60				17.90	0.69		
22	18.50	2102	1831	24.00	0.68	0.07	2.08				16.80	0.74		
23	16.75	1902	1633	20.00	0.72	0.07	5.99				13.20	0.72		
24	16.50	1891	1619	22.00	0.61	0.08	2.10				14.40	0.74		
25	14.00	1603	1334	18.00	0.63	0.08	9.34				11.20	0.77		
26	17.50	1986	1714	24.00	0.62	0.08	2.30				15.00	0.73		
27	16.50	1890	1609	26.00	0.79	0.07	2.28				14.00	0.75		
28	17.00	1946	1669	24.00	0.68	0.08	2.05				15.00	0.75		
29	17.00	1947	1662	24.00	0.82	0.08	4.21				14.20	0.71		
30	17.50	2004	1725	27.00	0.67	0.09	1.60				15.20	0.79		
31	15.75	1780	1507	20.00	0.78	0.10	1.10				13.20	0.72		
Total	523	59,406	50,790	640							483.60	21.54	0	0
Avg	16.87	1,916	1,638	20.65	0.67	0.09	2.37	#DIV/0!	#DIV/0!	#DIV/0!	15.60	0.69	#DIV/0!	#DIV/0!
Max	19.25	2,169	1,891	27.00	0.82	0.15	9.34	0.0	0.0	0.00	17.90	0.79	0.00	0.00
Min	14.00	1,592	1,332	14.00	0.50	0.07	0.60	0.00	0.00	0.00	11.20	0.63	0.00	0.00

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 1/5/2026

October 2018 FORM 542-8027

	FLUORIDE		HARDNESS		PH		TOTAL ALK		IRON		MANGANESE		ORTHO	H_2O	Cl_2	NITRATE		RAW
DATE	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	PHOS	TEMP	FREE	RAW	FIN	TURB.
1		0.64	356	162	7.5	9.4	278	76	0.01	0.01			1.38	58	2.27	3.8	3.8	0.09
2		0.60	358	164	7.5	9.4	270	74	0.01	<0.01			1.37	58	2.07	3.9	3.7	0.08
3		0.64	358	164	7.5	9.3	270	76	0.01	<0.01			1.38	59	2.03	3.9	3.9	0.10
4		0.73	360	166	7.6	9.4	272	74	0.01	<0.01			1.38	58	2.19	4.1	4.0	0.09
5		0.63	364	166	7.5	9.4	272	78	0.01	<0.01			1.31	58	2.23	4.2	4.2	0.09
6		0.67	366	164	7.5	9.3	270	74	0.01	<.01			1.32	58	2.33	4.0	3.9	0.13
7		0.73	364	166	7.5	9.3	272	80	<.01	<.01			1.34	57	2.09	4.1	4.0	0.09
8		0.73	346	168	7.5	9.4	258	66	<.01	0.01			1.34	57	1.73	4.3	4.3	0.10
9		0.54	362	164	7.5	9.3	268	74	0.01	0.01			1.30	57	2.03	4.2	4.0	0.08
10		0.56	370	168	7.5	9.4	264	70	<.01	0.01			1.36	57	2.09	4.4	4.4	0.08
11		0.67	372	168	7.4	9.4	262	68	<.01	<.01			1.31	57	1.88	4.6	4.5	0.09
12		0.50	368	168	7.5	9.3	260	70	<.01	0.01			1.37	57	1.83	4.7	4.7	0.10
13		0.61	364	170	7.5	9.3	264	68	<.01	0.01			1.37	57	1.73	4.7	4.7	0.10
14		0.70	358	172	7.5	9.3	262	70	<.01	0.01			1.37	56	1.65	4.7	4.7	0.07
15	0.61	0.68	378	168	7.5	9.3	270	68	0.01	<0.01	.28	.01	1.35	56	2.26	4.5	4.4	0.11
16		0.68	370	170	7.5	9.3	280	74	0.01	<0.01			1.31	56	2.19	4.6	4.4	0.07
17		0.71	390	170	7.5	9.3	272	74	0.01	<.01			1.38	55	2.01	4.6	4.5	0.15
18		0.71	374	172	7.5	9.3	274	70	0.01	<.01			1.31	55	2.12	4.7	4.5	0.10
19		0.64	372	168	7.5	9.3	270	70	0.01	<.01			1.39	55	2.28	4.8	4.7	0.10
20		0.68	372	168	7.5	9.2	270	70	<.01	0.01			1.38	55	2.06	4.7	4.8	0.10
21		0.61	370	168	7.5	9.3	266	68	0.01	0.01			1.41	54	2.30	4.8	4.8	0.08
22		0.68	376	170	7.5	9.3	282	72	<0.01	0.01			1.38	54	2.19	4.9	4.6	0.07
23		0.72	384	176	7.5	9.3	276	70	<0.01	<0.01			1.34	54	2.07	4.9	4.8	0.07
24		0.61	390	178	7.6	9.3	288	78	<0.01	<0.01			1.32	54	2.16	4.9	4.9	0.08
25		0.63	388	178	7.5	9.3	284	72	<0.01	<0.01			1.35	54	2.06	5.0	4.8	0.08
26		0.62	386	178	7.6	9.4	284	80	<0.01	<0.01			1.37	54	2.17	5.1	4.9	0.08
27		0.79	388	176	7.5	9.3	274	74	<.01	<.01			1.35	54	1.98	5.2	5.0	0.07
28		0.68	382	170	7.6	9.3	268	74	<.01	<.01			1.40	54	1.99	5.0	4.8	0.08
29		0.82	384	174	7.6	9.3	276	74	<.01	<.01			1.47	53	2.10	5.3	5.2	0.08
30		0.67	384	170	7.6	9.3	274	72	0.02	0.01			1.33	54	2.17	5.4	5.3	0.09
31		0.78	380	172	7.6	9.3	274	72	<.01	<.01			1.22	53	2.03	5.5	5.5	0.10
AVG		**0.67**	**372**	**170**	**7.5**	**9.3**	**272**	**73**	**0.01**	**0.01**	**0.28**	**0.01**	**1.35**	**56**	**2.07**	**4.63**	**4.54**	**0.09**
MAX		**0.82**	**390**	**178**	**7.6**	**9.4**	**288**	**80**	**0.02**	**0.01**	**0.28**	**0.01**	**1.47**	**59**	**2.33**	**5.50**	**5.50**	**0.15**
MIN		**0.50**	**346**	**162**	**7.4**	**9.2**	**258**	**66**	**0.01**	**0.01**	**0.28**	**0.01**	**1.22**	**53**	**1.65**	**3.80**	**3.70**	**0.07**

IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS REPORTING SYSTEM - DISCHARGE MONITORING REPORT
FACILITY INFORMATION

This form is valid 12/1/2024 to 11/30/2029

Facility Name: BOONE CITY OF STP

Permit #: 0819001

Month/Year: 12 2025

Outfall #(s): 001 - DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY.

Operator Name: John Roberts

Certification #: 10924

Phone #: 7122590805

Lab Cert. #: 156

Comments:

*Include Comments longer than 1000 characters in email

Signature:

John Roberts

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilityof fine and imprisonment for known violations.

Permit # 0819001
Facility Name: BOONE CITY OF STP

Monthly Operation Report
IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS - Operation Permit System
INFLUENT Data

Outfall #: 001
Month/Year: 12-2025

Mon. Point	RAW WASTE												
Parameter	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP	PH
Units	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	STD UNITS
Frequency	7/WEEK OR DAILY	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK
Start Date													
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration
No Discharge													
LOQ													
Day: 1	1.322			331	3649.43388							60	7.5
2	1.36					33.52	380.197248	33	374.2992	6.7	75.99408	60	7.6
3	1.304	179	1946.68944	230	2501.3328							60	8.3
4	1.349	280	3150.1848									59	7.6
5	1.335											61	7.6
6	1.319												
7	1.336												
8	1.31			324	3539.8296							58	7.7
9	1.594					31.55	419.424438	31	412.11276	6.7	89.069532	60	7.6
10	1.525	258	3281.373	342	4349.727							59	7.6
11	1.479	160	1973.5776									60	7.8
12	1.405											60	7.6
13	1.411												
14	1.435												
15	1.393											59	7.6
16	1.554			256	3317.85216	33.2	430.283952	32	414.73152	6.4	82.946304	59	7.7
17	1.818	247	3745.04364	377	5716.11924							60	7.7
18	2.134	230	4093.4388									58	7.5
19	1.903											58	8
20	1.781												
21	1.784												
22	1.866			204	3174.73776	27.4	426.410856	26	404.62344	4.9	76.255956	59	7.5
23	1.805											59	7.8
24	1.767	177	2608.41006	199	2932.61922							58	7.7
25	1.801	175	2628.5595									58	7.7
26	1.975											58	7.7
27	1.988												
28	2.099												
29	1.935			224	3614.8896							56	7.6
30	1.915											57	7.1
31	1.844	185	2845.1076	243	3737.08728							59	7.7
Total	50.846	1891	26272.38444	2730	36533.62854	125.67	1656.316494	122	1605.76692	24.7	324.265872	1355	176.2
Monthly Avg.	1.640193548	210.1111111	2919.153827	273	3653.362854	31.4175	414.0791235	30.5	401.44173	6.175	81.066468	58.91304348	7.660869565
Daily Max.	2.134	280	4093.4388	377	5716.11924	33.52	430.283952	33	414.73152	6.7	89.069532	61	8.3
Daily Min.	1.304	160	1946.68944	199	2501.3328	27.4	380.197248	26	374.2992	4.9	75.99408	56	7.1
Max. 7/Avg.	1.900142857	238.5	3919.24122	333	4516.9857	33.52	430.283952	33	414.73152	6.7	89.069532	60	7.72

Permit # 0819001
Facility Name : BOONE CITY OF STP

Monthly Operation Report
IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS - Operation Permit System
EFFLUENT Data

Outfall #: 001
Month/Year: 12-2025

Mon. Point	FINAL EFFLUENT																									
Parameter	CBOD5		TSS		NH3-N		CHLORIDE		CN(T)		NO3-N		TOT-N		PHENOLS		PHOS		TEMP	PB		TOX CER	TOX PIM	DO	PH	E COLI
Units	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	MG/L	LBS/DAY	NO TOXICITY	NO TOXICITY	MG/L	STD UNTS	#/100 ML
Frequency	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	2 TIMES PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS
Start Date																										
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration
No Discharge																						06 - NOT REQ / MP	06 - NOT REQ / MP			06 - NOT REQ / MP
LOQ																										
Day: 1			3	33.07644																						
2					0.1	1.13424			0.0035	0.0396984			21.95	248.96568			3.4	38.56416	54	0.001	0.0113424			9.3	7.8	
3	3	32.62608	6	65.25216	0.1	1.087536													56					9.5	7.7	
4	3	33.75198			0.1	1.125066													52					9.8	7.7	
5					0.1	1.11339													54					9.5	7.8	
6																										
7																										
8			6	65.5524															54					8.2	7.5	
9					0.1	1.329396	200	2658.792	0.0239	0.317725644	19	252.58524	21.98	292.2012408	0.02	0.2658792	3.5	46.52886	55	0.001	0.01329396			8.2	7.6	
10	3	38.1555	4	50.874	0.1	1.27185													56					8	7.4	
11	3	37.00458			0.1	1.233486													54					8.2	7.3	
12					0.1	1.17177													54					6.9	7.7	
13																										
14																										
15																			54					8.2	7.5	
16			3	38.88108	0.1	1.296036			0.0035	0.04536126			21.1	273.463596			2.9	37.585044	54	0.001	0.01296036			8	7.5	
17	3	45.48636	4	60.64848	0.1	1.516212													56					7.8	7.5	
18	3	53.39268			0.1	1.779756													56					7.7	7.5	
19					0.1	1.587102													52					8.1	7.6	
20																										
21																										
22			3	46.68732					0.0035	0.05446854			18	280.12392			2.1	32.681124	56	0.001	0.01556244			8	7.6	
23					0.1	1.50537													56					7.7	7.7	
24	3	44.21034	3	44.21034	0.1	1.473678													56					7.8	7.5	
25	3	45.06102			0.1	1.502034													56					7.8	7.6	
26					0.1	1.64715													57					9.2	8.1	
27																										
28																										
29			3	48.4137															54					8.6	7.6	
30					0.1	1.59711													54					8.3	7.5	
31	3	46.13688	6	92.27376	0.1	1.537896													54					8.3	7.6	
Total	27	375.82542	41	545.86968	1.8	24.909078	200	2658.792	0.0344	0.457253844	19	252.58524	83.03	1094.754437	0.02	0.2658792	11.9	155.359188	1204	0.004	0.05315916			183.1	167.3	
Monthly Avg.	3	41.75838	4.1	54.586968	0.1	1.383837667	200	2658.792	0.0086	0.114313461	19	252.58524	20.7575	273.6886092	0.02	0.2658792	2.975	38.839797	54.72727273	0.001	0.01328979			8.322727273	7.604545455	
Daily Max.	3	53.39268	6	92.27376	0.1	1.779756	200	2658.792	0.0239	0.317725644	19	252.58524	21.98	292.2012408	0.02	0.2658792	3.5	46.52886	57	0.001	0.01556244			9.8	8.1	
Daily Min.	3	32.62608	3	33.07644	0.1	1.087536	200	2658.792	0.0035	0.0396984	19	252.58524	18	248.96568	0.02	0.2658792	2.1	32.681124	52	0.001	0.0113424			6.9	7.3	
Max. 7/Avg.	3	49.43952	5	58.2132	0.1	1.5447765	200	2658.792	0.0239	0.317725644	19	252.58524	21.98	292.2012408	0.02	0.2658792	3.5	46.52886	56.2	0.001	0.01556244			9.525	7.75	

1406 Central Avenue
Fort Dodge, Iowa 50501
515-269-2338

JANUARY 2026

City of Boone, Iowa

Water & Wastewater Treatment Facilities, Storage, and Lift Stations

Monthly Operations & Maintenance Report

Prepared by:

USW UTILITY GROUP

1406 Central Avenue
Fort Dodge, IA 50501
(515) 269-2338

Prepared For:

City of Boone

923 8th Street
Boone, IA 50036
(515) 432-4211

January 2026

City of Boone
Ondrea Elmquist, City Administrator
923 8th Street
Boone, IA 50036

January Monthly Water & Wastewater Operations Report

Dear Ms. Elmquist:

In accordance with contract requirements, we are pleased to provide the following monthly report for January 2026. Below is a list of the significant events that occurred during the month:

SUBMITTED TO: **Ondrea Elmquist**, City Administrator
Utility Committee and City Council, City of Boone
Aaron Voss, U.S. Water Services Corporation

We appreciate the opportunity to be of service to the City of Boone. We are available to discuss this report, or any other aspect of our operations, at your convenience. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

J.D. Roberts, Water Environment Plant Supervisor
USW Utility Group
(712) 259-0805
JRoberts@USWaterCorp.net

Dave Moore, Water Works Supervisor
USW Utility Group
(515) 230-3130
DMoore@USWaterCorp.net

Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		January-2025	January-2026
Water	**Units**		
Average Daily Pumped	gallons	1,572,000	1,597,000
Maximum Daily Pumped	gallons	1,949,000	1,957,000
Minimum Daily Pumped	gallons	1,305,000	1,368,000
Hardness			
Hardness - Avg Raw	grains	21.8	21.9
Hardness - Avg Finish	grains	10.4	9.9
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.48	.55
Avg Finish Fl.	mg/L	.78	.76

Water Storage

During the month of January, Greene Street, Industrial Park and Clinton Street towers were in service as well as the 2-million-gallon reservoir and 550,000-gallon contact basin for a total of 4,150,000-gallons of storage.

Maintenance Report

During the month of January, the following tasks were completed:

- Repaired Hanging Heater in Chlorine Room
- Repaired Hanging Heater in Chemical Room
- Replaced Seals, Cleaned and Serviced High Service Pump #2 10” Electric Check Valve
- Repaired/Serviced Chlorine Pump #2
- Replaced Sample Vials and Moisture Filters in all 5 Turbidity Meters
- Installed New Plastic Shelving

- Repaired Broken Roof Drain
- Collected Nitrate Samples from all 14 Individual Wells
- Rotated lime slakers
- Rotated backwash pumps and blowers
- Washed trucks and tractors
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all four CL-17 chlorine analyzers weekly
- Cleaned and serviced chlorine injector at pump station
- Replaced rooftop dehumidifier filters
- Misc. cleaning around water plant

Current & Planned Projects

During the month of February, the following tasks are planned:

- GSR rehab project will begin
- Service Lime Slaker #1

Health & Safety

There were no safety violations to report for the current month.

The subjects of the weekly safety training were:

1. Laboratory Safety Essentials
2. Machine Guarding
3. Fire Extinguishers
4. Remote Work
5. Emergency Eyewash and Shower Use

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	**Plant Effluent**	**Units**
Total	65.878	•	MGD
Average per day	2.13	•	MGD
Minimum	1.646	•	MGD
Maximum	2.97	•	MGD

	Wastewater Influent & Effluent Quality							
	Influent		**Effluent**					
Parameter	**Daily Ave MG/L**	**Daily Ave LBS/Day**	**Daily Max MG/L**	**Permit Daily MG/L Limit**	**7 Day Max Ave MG/L**	**Permit 7 Day Max Limit**	**30 Day Average**	**Permit 30 Day Ave**
BOD_5	**229**	**4045**	•	•	•	•	•	•
$CBOD_5$	•	•	**3**	•	**3**	**40**	**3**	**25**
Suspended solids	**272**	**4412**	**6**	•	**5**	**45**	**4**	**30**
Nitrogen Ammonia	**15.6**	**264**	**0.1**	**16.00**	**0.1**	•	**0.1 MG/L**	**2.5 MG/L**
Nitrate Nitrogen	•	•	**304 LBS/Day**	**1075 LBS/Day**	•	•	•	**657 LBS/Day**
Dissolved Oxygen	•	•	**10.7**	**>5.0**	**9.36**	•	**9.0**	**>5.0**
pH	**7.77**	•	**8.0**	**6.5 to 9 STD Units**	**7.82**	•	**7.71**	**6.5 to 9 STD Units**

ND= No Detection

- **= No limit set**

Solids Inventory

During the month of January, we pressed 9 days (336,000 gallons) and hauled 168.32 wet tons.

There are some concerning solids loadings coming into the plant that are having an impact.

Historical and current loading data show a significant upward trend:

- **2024**
    - BOD: 2,164 lbs/day
    - TSS: 2,227 lbs/day
- **2025**
    - BOD: 2,575 lbs/day (increase of approximately 500 lbs/day)
    - TSS: 3,790 lbs/day (increase of approximately 1,500 lbs/day)
- **2026 (Jan-Feb)**
    - BOD: 4,181 lbs/day (increase of 1,606 lbs/day)
    - TSS: 5,068 lbs/day (increase of 1,278 lb/day)

The wastewater treatment plant is designed for a maximum loading of 4,000 lbs/day BOD and 4,600 lbs/day TSS. Current influent loadings are exceeding both of these design limits.

These elevated loadings are placing increased stress on treatment processes and have the potential to negatively impact plant performance, operational stability, and regulatory compliance if they continue or increase further.

Lift Stations

All lift stations are inspected at least twice per week to ensure proper operations. Airport Road Lift Station pump #1 does not keep a prime. Electric Pump and Iowa Pump have both provided repairs, but pump continues to fail. This station is on the R&R list for replacement.

Maintenance Report

69 - (Sixty-Nine) Preventive Maintenance Work orders Completed

- Repaired air compressor in sludge pump room
- Repaired lime silo air compressor
- Replaced VLR blower filters
- Tightened up loose bolts on press
- Unclogged floor drain in press building.

Current & Planned Projects

- In-plant Lift Station-(Currently in Engineering)
- Preliminary Screen Install-(May 2026)
- Digester-(Currently in Engineering)
- Snedden Drive Lift Station-(Currently in Engineering)
- VertiCel System Secondary Treatment Process-(Currently in Engineering)
- Fournier Rotary Press: (Currently in Engineering)

Health & Safety

There were no safety violations to report for the current month.

The subjects of the monthly safety training were:

- Emergency Eyewash and Shower Use
- Remote Work
- Machine Guarding
- Laboratory Safety Essentials
- Fire Extinguishers

Regulatory Reports

See attached documents

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY SECTION

Basic Information

S/EP #: 1

SYSTEM NAME: Boone Water Works **PWSID #:** 0819033 **MONTH:** JANUARY **YEAR:** 2026

DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl_2 Used
						Source/Entry Point (S/EP)				Distribution					
	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day	Number of Hours of Treatment Plant Operation Per Day	Quantity Used in lbs.	Finished Water (mg/L)	Number of Tests Taken*	Specify Free (F) or Total (T)	Lowest Measured Residual (mg/L)	Continuous Hours Less Than 0.3 mg/L Free or 1.5 mg/L Total	Number of Tests Taken	Lowest Measured Residual Free (mg/L)	Number With Undetected Residual	Highest Measured Residual Free (mg/L)	Ratio of CT Obtained to CT Required	Chlorine in lbs.
1	1,859	1,590	16.25	26	0.76	"C"	(F)	2.10	0	1	1.29	0	1.29	5.0	24
2	1,951	1,669	17.00	27	0.74	"C"	(F)	2.14	0	1	1.28	0	1.28	4.5	24
3	2,035	1,755	18.00	26	0.75	"C"	(F)	2.03	0	1	1.28	0	1.28	4.5	26
4	2,053	1,746	18.00	30	0.65	"C"	(F)	2.16	0	1	1.29	0	1.29	4.3	25
5	2,051	1,745	18.00	25	0.71	"C"	(F)	2.15	0	1	1.30	0	1.30	5.0	24
6	2,026	1,713	17.75	28	0.76	"C"	(F)	2.16	0	6	1.26	0	1.79	5.2	27
7	2,014	1,705	17.75	28	0.77	"C"	(F)	2.07	0	1	1.29	0	1.29	5.4	26
8	1,881	1,577	17.50	28	0.66	"C"	(F)	1.96	0	1	1.28	0	1.28	5.7	24
9	1,926	1,628	18.00	29	0.84	"C"	(F)	2.11	0	1	1.27	0	1.27	5.7	25
10	1,826	1,522	17.00	26	0.75	"C"	(F)	2.15	0	1	1.28	0	1.28	6.0	24
11	2,285	1,957	21.00	34	0.68	"C"	(F)	2.16	0	1	1.28	0	1.28	4.9	21
12	1,980	1,664	18.50	28	0.72	"C"	(F)	2.21	0	1	1.29	0	1.29	5.8	23
13	2,045	1,732	19.25	30	0.77	"C"	(F)	2.04	0	6	1.21	0	1.72	5.5	24
14	1,817	1,514	17.00	26	0.68	"C"	(F)	2.02	0	1	1.29	0	1.29	5.1	20
15	1,775	1,481	16.50	24	0.88	"C"	(F)	1.90	0	1	1.28	0	1.28	7.7	21
16	1,746	1,445	16.50	26	0.80	"C"	(F)	1.90	0	1	1.27	0	1.27	6.6	20
17	1,869	1,567	17.50	26	0.82	"C"	(F)	1.90	0	1	1.25	0	1.25	6.0	21
18	1,804	1,498	17.00	30	0.86	"C"	(F)	1.88	0	1	1.23	0	1.23	6.2	24
19	1,720	1,617	16.25	22	0.77	"C"	(F)	1.92	0	1	1.22	0	1.22	6.5	23
20	1,556	1,368	14.75	22	0.78	"C"	(F)	1.94	0	1	1.21	0	1.21	7.0	19
21	2,002	1,609	19.00	30	0.71	"C"	(F)	1.87	0	1	1.11	0	1.11	5.4	25
22	1,817	1,512	17.00	26	0.81	"C"	(F)	1.94	0	1	1.23	0	1.23	6.6	24
23	1,639	1,546	15.50	24	0.69	"C"	(F)	1.92	0	1	1.23	0	1.23	6.9	20
24	1,886	1,576	17.75	32	0.77	"C"	(F)	2.30	0	1	1.25	0	1.25	6.5	23
25	1,959	1,611	18.75	26	0.77	"C"	(F)	2.13	0	1	1.25	0	1.25	6.2	22
26	1,890	1,573	18.00	22	0.77	"C"	(F)	2.06	0	1	1.30	0	1.30	6.4	23
27	1,849	1,545	17.50	28	0.77	"C"	(F)	2.01	0	1	1.30	0	1.30	6.3	20
28	1,818	1,509	17.25	26	0.79	"C"	(F)	1.93	0	1	1.31	0	1.31	6.3	21
29	1,845	1,543	17.50	28	0.8	"C"	(F)	2.01	0	1	1.32	0	1.32	6.3	19
30	1,730	1,433	16.50	28	0.81	"C"	(F)	2.04	0	1	1.32	0	1.32	6.4	20
31	1,858	1,559	17.75	27	0.75	"C"	(F)	2.11	0	1	1.36	0	1.36	6.0	20
Total	58,512	49,509	542.00	838						41		0			702
Avg	1,887	1,597	17.54	27	0.76										23
Max	2,285	1,957	21.00	34	0.88				0				1.79		27
Min	1,556	1,368	14.75	22	0.65			1.87			1.11			4.3	19

*If continuous monitoring of chlorine is provided, enter "C" in the space provided.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 2/3/2026

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY SECTION

Turbidity Data Page 1 of 1

S/EP: #1

SYSTEM NAME: Boone Water Works **PWSID #:** 0819033 **MONTH:** JANUARY **YEAR:** 2026

DAY	Finished Water			Filter Effluent																Raw Water Turbidity (Highest Daily Reading NTU)
				#1				#2				#3				#4				
	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (NTU)	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash		Daily Highest (NTU)	# of Consec Results >10 NTU	
1	16	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
2	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
3	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.07
4	17	0	.02	.03	.03	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
5	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
6	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.08
7	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.13
8	19	0	.02	.02	.03	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.15
9	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.14
10	18	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.01	.02	0	.02	.02	.02	0	0.11
11	18	0	.02	.02	.02	.04	0	.01	.01	.02	0	.01	.01	.02	0	.02	.01	.02	0	0.09
12	21	0	.02	.02	.02	.03	0	.02	.02	.02	0	.02	.01	.02	0	.02	.01	.02	0	0.11
13	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.10
14	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.10
15	17	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	.01	.01	.02	0	0.11
16	17	0	.02	.02	.02	.03	0	.02	.02	.02	0	.01	.01	.01	0	.01	.01	.01	0	0.12
17	16	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.13
18	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.16
19	15	0	.02	.02	.02	.03	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.03	0	0.13
20	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.11
21	15	0	.02	.02	.02	.03	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.09
22	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.09
23	14	0	.02	.02	.02	.02	0	.02	.01	.06	0	.01	.01	.02	0	.01	.01	.04	0	0.08
24	18	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.01	.02	0	.02	.01	.02	0	0.09
25	17	0	.02	.02	.02	.02	0	.01	.01	.03	0	.01	.01	.02	0	.02	.01	.02	0	0.09
26	20	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.09
27	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.01	0	0.09
28	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.08
29	18	0	.02	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.11
30	18	0	.02	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.01	0	.01	.01	.01	0	0.09
31	17	0	.02	.02	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.01	0	0.09
Total	547	0					0				0				0				0	
Avg																				0.10
Max			.02			.04				.06				.02				.04		0.16
Min																				0.07

**If continuous monitoring of turbidity is provided, measurements must be recorded at equal time intervals at least once every four hours or hourly for plants w/pop. >100,000.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 2/3/2026

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY

Basic Information

S/EP: #1

System Name: **PWSID #:** 819033 **Month:** JANUARY **Year:** 2026

Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)							
	Number of hours the plant operated per day.	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day	Quantity Used in lbs. or gal. (circle one)	Finished Water (mg/L)	Highest Daily Reading (NTU)	Highest Daily Reading Sed 1 (NTU)	Highest Daily Reading Sed 2 (NTU)	Highest Daily Reading Sed 3 (NTU)	Highest Daily Reading Sed 4 (NTU)	Gallons Of Liquid Chlorine Used 15%	Wett Well Residual		
1	16.25	1859	1590	26.00	0.76	0.09	2.16				14.00	0.65		
2	17.00	1951	1669	27.00	0.74	0.09	2.58				14.00	0.61		
3	18.00	2035	1755	26.00	0.75	0.07	2.56				15.50	0.65		
4	18.00	2053	1746	30.00	0.65	0.09	4.58				15.00	0.65		
5	18.00	2051	1745	25.00	0.71	0.09	1.13				15.10	0.78		
6	17.75	2026	1713	28.00	0.76	0.08	1.86				15.00	0.78		
7	17.75	2014	1705	28.00	0.77	0.13	1.25				15.00	0.78		
8	17.50	1881	1577	28.00	0.66	0.15	2.56				14.00	0.76		
9	18.00	1926	1628	29.00	0.84	0.14	1.91				13.00	0.76		
10	17.00	1826	1522	26.00	0.75	0.11	1.11				13.00	0.77		
11	21.00	2285	1957	34.00	0.68	0.09	0.99				16.70	0.79		
12	18.50	1980	1664	28.00	0.72	0.11	2.62				14.20	0.81		
13	19.25	2045	1732	30.00	0.77	0.10	0.89				15.00	0.79		
14	17.00	1817	1514	26.00	0.68	0.10	1.09				13.00	0.73		
15	16.50	1775	1481	24.00	0.88	0.11	2.03				12.30	0.70		
16	16.50	1746	1445	26.00	0.80	0.12	2.18				12.90	0.62		
17	17.50	1869	1567	26.00	0.82	0.13	2.98				12.90	0.60		
18	17.00	1804	1498	30.00	0.86	0.16	2.09				12.90	0.60		
19	16.25	1720	1617	22.00	0.77	0.13	2.61				13.90	0.62		
20	14.75	1556	1368	22.00	0.78	0.11	0.71				12.20	0.63		
21	19.00	2002	1609	30.00	0.71	0.09	0.8				14.80	0.62		
22	17.00	1817	1512	26.00	0.81	0.09	0.75				13.70	0.69		
23	15.50	1639	1546	24.00	0.69	0.08	5.28				14.00	0.66		
24	17.75	1886	1576	32.00	0.77	0.09	2.65				14.30	0.71		
25	18.75	1959	1611	26.00	0.77	0.09	2.46				15.00	0.72		
26	18.00	1890	1573	22.00	0.77	0.09	2.31				14.90	0.72		
27	17.50	1849	1545	28.00	0.77	0.09	2.49				14.80	0.70		
28	17.25	1818	1509	26.00	0.79	0.08	1.56				14.00	0.69		
29	17.50	1845	1543	28.00	0.80	0.11	1.07				15.00	0.70		
30	16.50	1730	1433	28.00	0.81	0.09	1.31				13.00	0.66		
31	17.75	1858	1559	27.00	0.75	0.09	1.11				14.00	0.68		
Total	542	58,512	49,509	838							437.10	21.63	0	0
Avg	17.48	1,887	1,597	27.03	0.76	0.10	1.99	#DIV/0!	#DIV/0!	#DIV/0!	14.10	0.70	#DIV/0!	#DIV/0!
Max	21.00	2,285	1,957	34.00	0.88	0.16	5.28	0.0	0.0	0.00	16.70	0.81	0.00	0.00
Min	14.75	1,556	1,368	22.00	0.65	0.07	0.71	0.00	0.00	0.00	12.20	0.60	0.00	0.00

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: 2/3/2026

October 2018 FORM 542-8027

	FLUORIDE		HARDNESS		PH		TOTAL ALK		IRON		MANGANESE		ORTHO	H_2O	Cl_2	NITRATE		RAW
DATE	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	PHOS	TEMP	FREE	RAW	FIN	TURB.
1		0.76	380	178	7.51	9.28	274	70	0.01	0.02			1.32	52	1.98	5.8	5.8	0.09
2		0.74	382	180	7.56	9.27	278	74	0.01	0.01			1.38	52	2.10	5.9	5.8	0.09
3		0.75	380	180	7.56	9.28	276	76	<.01	0.01			1.38	52	2.00	6.1	6.0	0.07
4		0.65	386	182	7.49	9.28	280	70	<.01	<.01			1.37	51	2.00	6.2	6.0	0.09
5		0.71	380	178	7.53	9.33	274	70	0.01	<0.01			1.44	51	2.08	6.1	6.0	0.09
6		0.76	390	178	7.49	9.28	288	72	<0.01	<0.01			1.44	51	2.03	6.2	6.0	0.08
7		0.77	394	178	7.50	9.27	288	74	0.01	<0.01			1.41	52	2.14	5.8	6.0	0.13
8		0.66	370	180	7.53	9.25	286	68	0.01	<.01			1.43	52	2.03	5.8	6.0	0.15
9		0.84	378	178	7.53	9.21	282	76	0.01	<.01			1.45	52	2.10	6.0	5.8	0.14
10		0.75	372	178	7.42	9.22	278	70	<.01	0.01			1.43	52	2.16	6.3	6.1	0.11
11		0.68	372	178	7.45	9.23	278	70	<.01	0.01			1.30	52	2.16	6.3	6.2	0.09
12		0.72	378	166	7.49	9.22	282	78	<0.01	0.01			1.39	52	2.09	6.3	6.0	0.11
13		0.77	380	176	7.50	9.21	274	76	<0.01	0.01			1.55	52	2.12	6.2	6.2	0.10
14		0.68	400	170	7.48	9.26	290	74	<0.01	0.01			1.39	49	1.97	7.5	6.5	0.10
15	0.55	0.88	362	170	7.40	9.29	276	76	0.02	0.01	0.200	0.009	1.38	61	1.94	4.5	5.9	0.11
16		0.80	358	166	7.41	9.32	268	76	0.01	<.01			1.38	60	1.93	4.5	4.9	0.12
17		0.82	368	160	7.44	9.35	294	72	<.01	0.01			1.45	60	1.90	4.8	4.7	0.13
18		0.86	368	156	7.43	9.34	290	72	0.01	0.01			1.44	60	1.78	5.0	4.7	0.16
19		0.77	374	156	7.43	9.33	286	72	0.01	0.01			1.41	59	1.76	5.3	5.1	0.13
20		0.78	374	158	7.43	9.32	270	74	0.01	0.01			1.39	58	1.94	5.2	4.8	0.11
21		0.71	278	158	7.40	9.32	268	70	<.01	0.01			1.35	58	1.83	5.4	5.2	0.09
22		0.81	380	162	7.42	9.31	284	72	<.01	0.01			1.43	58	1.88	5.8	5.3	0.09
23		0.69	370	166	7.56	9.35	276	74	<.01	0.01			1.38	58	2.02	5.9	5.7	0.08
24		0.77	372	166	7.43	9.31	278	70	0.01	0.01			1.40	58	2.16	6.1	5.8	0.09
25		0.77	362	166	7.47	9.26	280	70	0.01	0.01			1.41	57	2.09	6.3	6.0	0.09
26		0.77	376	166	7.45	9.30	278	70	0.01	0.01			1.44	57	2.20	6.2	6.0	0.09
27		0.77	388	162	7.47	9.22	288	70	0.01	0.01			1.43	56	2.30	6.2	6.0	0.09
28		0.79	382	164	7.45	9.21	284	72	<0.01	<0.01			1.47	56	2.30	6.5	6.2	0.08
29		0.80	378	160	7.42	9.22	290	74	<.01	0.01			1.48	56	2.31	6.5	6.2	0.11
30		0.81	390	166	7.44	9.19	276	74	<.01	<.01			1.43	56	2.16	6.4	6.1	0.09
31		0.75	376	160	7.43	9.25	276	70	<.01	<.01			1.45	56	2.17	6.6	6.6	0.09
AVG		**0.76**	**374**	**169**	**7.5**	**9.3**	**280**	**72**	**0.01**	**0.01**	**0.20**	**0.01**	**1.41**	**55**	**2.05**	**5.9**	**5.8**	**0.10**
MAX		**0.88**	**400**	**182**	**7.6**	**9.4**	**294**	**78**	**0.02**	**0.02**	**0.20**	**0.01**	**1.55**	**61**	**2.31**	**7.5**	**6.6**	**0.16**
MIN		**0.65**	**278**	**156**	**7.4**	**9.2**	**268**	**68**	**0.01**	**0.01**	**0.20**	**0.01**	**1.30**	**49**	**1.76**	**4.5**	**4.7**	**0.07**

IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS REPORTING SYSTEM - DISCHARGE MONITORING REPORT
FACILITY INFORMATION

This form is valid 12/1/2024 to 11/30/2029

Facility Name: BOONE CITY OF STP

Permit #: 0819001

Month/Year: 1 2026

Outfall #(s): 001 - DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY.

Operator Name: John Roberts

Certification #: 10924

Phone #: 7122590805

Lab Cert. #: 156

Comments:

*Include Comments longer than 1000 characters in email

Signature:

John Roberts

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilityof fine and imprisonment for known violations.

Permit # 0819001
Facility Name: BOONE CITY OF STP

Monthly Operation Report
IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS - Operation Permit System
INFLUENT Data

Outfall #: 001
Month/Year: 1-2026

Mon. Point	RAW WASTE												
Parameter	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP	PH
Units	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	STD UNITS
Frequency	7/WEEK OR DAILY	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK
Start Date													
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration
No Discharge													
LOQ													
Day: 1	1.722											57	7.7
2	1.774	250	3698.79									56	7.6
3	1.77												
4	1.801												
5	1.76			193	2832.9312							58	7.7
6	1.696					44.3	626.607552	43	608.21952	8.9	125.887296	58	7.9
7	1.738	294	4261.50648	411	5957.41212							59	7.8
8	3.547	271	8016.71658									58	7.7
9	3.436											58	7.7
10	3.062												
11	2.933												
12	2.793			136	3167.93232							58	7.6
13	2.612					22.7	494.498616	18	392.11344	3.5	76.24428	58	7.5
14	2.416	171	3445.55424	219	4412.72736							57	7.9
15	2.409	152	3053.84112									55	7.7
16	2.227											57	7.7
17	2.164												
18	2.164												
19	2.089			205	3571.5633							54	7.6
20	2.03					26.2	443.57124	24	406.3248	5.1	86.34402	54	7.8
21	1.974	153	2518.86348	357	5877.34812							55	7.7
22	1.916	277	4426.30488									56	7.9
23	1.88											54	7.8
24	1.893												
25	1.89												
26	1.786			342	5094.17208							54	7.7
27	1.733					28.4	410.471448	26	375.78372	4.6	66.484812	54	7.9
28	1.702	261	3704.81148	309	4386.15612							54	8.1
29	1.669	236	3284.99256									55	7.8
30	1.646											55	8.2
31	1.646												
Total	65.878	2065	36411.38082	2172	35300.24262	121.6	1975.148856	111	1782.44148	22.1	354.960408	1234	171
Monthly Avg.	2.125096774	229.4444444	4045.70898	271.5	4412.530328	30.4	493.787214	27.75	445.61037	5.525	88.740102	56.09090909	7.772727273
Daily Max.	3.547	294	8016.71658	411	5957.41212	44.3	626.607552	43	608.21952	8.9	125.887296	59	8.2
Daily Min.	1.646	152	2518.86348	136	2832.9312	22.7	410.471448	18	375.78372	3.5	66.484812	54	7.5
Max. 7/Avg.	2.971285714	272	5731.13541	325.5	4740.1641	44.3	626.607552	43	608.21952	8.9	125.887296	57.8	7.88

Permit #: 0819001
Facility Name: BOONE CITY OF STP

Monthly Operation Report
IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS - Operation Permit System
EFFLUENT Data

Outfall #: 001
Month/Year: 1-2026

Mon. Point	FINAL EFFLUENT																								
Parameter	CBOD5		TSS		NH3-N		CHLORIDE		CN(T)		NO3-N		TOT-N		PHENOLS		PHOS		TEMP	PB		TOX CER	TOX PIM	DO	PH	E COLI
Units	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	MG/L	LBS/DAY	NO TOXICITY	NO TOXICITY	MG/L	STD UNITS	#/100 ML
Frequency	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	2 TIMES PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS
Start Date																										
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration
No Discharge																						06 - NOT REQ / MP	06 - NOT REQ / MP			06 - NOT REQ / MP
LOQ																										
Day: 1					0.1	1.436148													54					7.6	8	
2	3	44.38548			0.1	1.479516													52					8.4	7.6	
3																										
4																										
5			4	58.7136															54					9.6	7.8	
6					0.1	1.414464	150	2121.696	0.0035	0.04950624	16	226.31424	19.88	281.1954432	0.02	0.2828928	1.9	26.874816	55	0.001	0.01414464			7.8	7.5	
7	3	43.48476	3	43.48476	0.1	1.449492													54					9.4	7.7	
8	3	88.74594			0.1	2.958198													54					9.1	7.8	
9					0.24	6.8774976													52					9.6	7.9	
10																										
11																										
12			4	93.17448															54					9.7	7.8	
13					0.1	2.178408			0.0035	0.07624428	14	304.97712	15.1	328.939608			1.1	23.962488	54	0.001	0.02178408			9.5	7.9	
14	3	60.44832	3	60.44832	0.1	2.014944													54					9.9	8	
15	3	60.27318			0.1	2.009106													52					9.7	7.8	
16					0.1	1.857318													54					7.8	8	
17																										
18																										
19			6	104.53356															50					8.8	7.5	
20					0.1	1.69302			0.0035	0.0592557			16.98	287.474796			1.7	28.78134	50	0.001	0.0169302			9	7.7	
21	3	49.38948	4	65.85264	0.1	1.646316													52					8.8	7.6	
22	3	47.93832			0.1	1.597944													51					8.9	7.7	
23					0.1	1.56792													50					9.3	7.5	
24																										
25																										
26			5	74.4762															50					8.9	7.4	
27					0.1	1.445322			0.0035	0.05058627			19.2	277.501824			1.8	26.015796	49	0.001	0.01445322			9	7.7	
28	3	42.58404	3	42.58404															50					8.8	7.5	
29	3	41.75838			0.1	1.391946													50					10.7	7.7	
30					0.1	1.372764													49					7.9	7.6	
31					0.1	1.372764																				
Total	27	479.0079	32	543.2676	1.94	35.7630876	150	2121.696	0.014	0.23559249	30	531.29136	71.16	1175.111671	0.02	0.2828928	6.5	105.63444	1144	0.004	0.06731214			198	169.7	
Monthly Avg.	3	53.2231	4	67.90845	0.107777778	1.9868382	150	2121.696	0.0035	0.058898123	15	265.64568	17.79	293.7779178	0.02	0.2828928	1.625	26.40861	52	0.001	0.016828035			9	7.713636364	
Daily Max.	3	88.74594	6	104.53356	0.24	6.8774976	150	2121.696	0.0035	0.07624428	16	304.97712	19.88	328.939608	0.02	0.2828928	1.9	28.78134	55	0.001	0.02178408			10.7	8	
Daily Min.	3	41.75838	3	42.58404	0.1	1.372764	150	2121.696	0.0035	0.04950624	14	226.31424	15.1	277.501824	0.02	0.2828928	1.1	23.962488	49	0.001	0.01414464			7.8	7.4	
Max. 7Avg.	3	74.59713	5	85.1931	0.135	3.5072619	150	2121.696	0.0035	0.07624428	16	304.97712	19.88	328.939608	0.02	0.2828928	1.9	28.78134	53.8	0.001	0.02178408			9.56	7.88	

1406 Central Avenue
Fort Dodge, Iowa 50501
515-269-2338

UPGRADE PROGRAM		December 2025				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
12/2/2025	715 Union H	12/9/2015				
12/2/2025	715 Union L	New Service				
12/2/2025	718 High St	New Service				
12/2/2025	716 High St	New Service				
12/2/2025	714 High St	New Service				
12/2/2025	712 High St	New Service				
12/2/2025	724 High St	New Service				
12/2/2025	722 High St	New Service				
12/2/2025	720 High St	New Service				
12/3/2025	1127 Benton	Frozen				
12/4/2025	1112 Ida Pl	New Service				
12/4/2025	1114 Ida Pl	New Service				
12/4/2025	1116 Ida Pl	New Service				
12/4/2025	1718 Crawford	8/16/2000				
12/8/2025	715 High St	New Service				
12/8/2025	717 High St	New Service				
12/8/2025	719 High St	New Service				
12/8/2025	721 High St	New Service				
12/8/2025	723 High St	New Service				
12/11/2025	1304 S Story	New Service				
12/11/2025	1603 Carroll	8/26/1999				
12/11/2025	1004 Carroll	11/21/2006				
12/11/2025	1537 6th	1/13/2004				
12/15/2025	500 S Main	10/29/2003				
12/16/2025	104 W Mamie	Pre 1999				
12/16/2025	1228 Crawford	08/09/00				
12/16/2025	702 High St	New Service				
12/16/2025	704 High St	New Service				
12/16/2025	706 High St	New Service				
12/16/2025	708 High St	New Service				
12/16/2025	710 High St	New Service				
12/16/2025	713 High St	New Service				
12/17/2025	2127 Carroll	Pre 1999				
12/17/2025	723 Wood	7/25/2005				
12/18/2025	1116 w 5th H	New Service				
12/18/2025	1116 w 5th L	New Service				
12/18/2025	1720 S Story	8/8/2014				
12/18/2025	1115 Ida Pl	New Service				
12/18/2025	1117 Ida Pl	New Service				
12/18/2025	1119 Ida Pl	New Service				
12/18/2025	1121 Ida Pl	New Service				
12/18/2025	306 S State	Demo				
12/19/2025	208 W 3rd	5/4/2000				
12/19/2025	311 S Tama	1/24/2014				
12/22/2025	1521 5th	10/11/2001				
12/23/2025	618 S Main	10/21/2003				
12/23/2025	414 W Mamie	1/3/2000				
12/23/2025	1327 5th	9/17/2014				

UPGRADE PROGRAM		January 2026				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
1/2/2026	1310 Aldrich	1/11/1999				
1/2/2026	1403 Southview Ct H	New Service				
1/2/2026	1403 Southview Ct L	New Service				
1/5/2026	1820 Mamie	New XTR				
1/6/2026	1605 S Story	5/7/2012				
1/6/2026	705 High St	New Service				
1/6/2026	703 High St	New Service				
1/8/2026	1414 S Story	5/29/2012				
1/8/2026	1414 S Story	Removal				
1/8/2026	227 Harrison	6/17/2014				
1/8/2026	500 7th	Battery Change				
1/12/2026	717 Wood St	7/14/2014				
1/12/2026	127 S Webster St	5/11/2004				
1/12/2026	322 S Main St	1/17/2007				
1/12/2026	2115 Mamie	10/16/2009				
1/13/2026	333 W Mamie	1/3/2007				
1/13/2026	1505 16th H	2/14/2014				
1/13/2026	1505 16th L	2/14/2014				
1/14/2026	1121 11th H	4/9/2015				
1/14/2026	1121 11th L	4/9/2015				
1/14/2026	904 S Jackson H	06/12/14				
1/14/2026	904 S Jackson L	06/12/14				
1/14/2026	1122 Crawford	8/9/2000				
1/15/2026	706 Express St	New Service				
1/15/2026	708 Express St	New Service				
1/15/2026	710 Express St	New Service				
1/15/2026	712 Express St	New Service				
1/15/2026	714 Exprsee St	New Service				
1/15/2026	716 Express St	New Service				
1/15/2026	718 Express St	New Service				
1/15/2026	720 Express St	New Service				
1/16/2026	1815 Greene	2/12/2014				
1/16/2026	709 Wood	10/13/2005				
1/16/2026	1703 14th	Pre 1999				
1/19/2026	1811 12th	New Service				
1/19/2026	511 S Clinton	2/3/1999				
1/21/2026	424 Snedden	8/20/2013				
1/23/2026	720 Ringold	New Service				
1/23/2026	718 Ringold	New Service				
1/23/2026	1715 Division	6/18/2014				
1/26/2026	1306 S Marshall	Frozen				
1/26/2026	318 State	12/23/2008				
1/27/2026	1715 S Story	5/30/2012				
1/28/2026	1303 Union	8/31/1999				
1/28/2026	707 5th	11/1/2022				

Curb Box Repair Update for 01/19/2026 – as of 1/13/2026

We do not shut off in December due to the holiday; however, 38 accounts would have qualified to be on the list if we did.

181 stop boxes need repaired, 77 of which have lead service lines.

13 delinquent bills totaling $3,844.84 certified on December 31st and if left unpaid, 13 delinquent water bills totaling $2,830.16 are scheduled to certify on January 27th.

Lesli Vote
Utility Billing Supervisor

Curb Box Repair Update for 02/16/2026 – as of 02/10/2026

$3,465.56 was collected during shut offs. 22 accounts qualified to be on the list, but due to weather and meter issues, we were only able to shut off 8.

181 stop boxes need repaired, 77 of which have lead service lines.

4 delinquent bills totaling $1,180.79 certified on January 30th and if left unpaid, 17 delinquent water bills totaling $12,721.29 are scheduled to certify on March 3rd.

Lesli Vote

Utility Billing Supervisor