

UTILITY COMMITTEE Meeting Notice

Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: December 12, 2023

Time of Meeting: 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.
2. Approve Minutes from the November 14, 2023 Meeting.
3. Request to Remove \$320.82 Sewer Charge. – Boone Glass Company.
4. Review November 2023 US Water Monthly Report.
5. Meter Upgrade Report.
 - a. November
6. Stop Box Repair/Shut Off Report.
 - a. November
7. Other Business.
8. Adjourn.



UTILITY COMMITTEE Meeting Notice

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Date of Meeting: November 14, 2023

Time of Meeting: 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.

Present: Moorman, Stines, Angstrom

Others present: Skare, Andrews, Majors, Vote, Turbes, Perry Gjersvik, Laurie Twitchell

2. Approve Minutes from the October 10, 2023, Meeting.

Angstrom moved; Stines seconded to approve the minutes of the October 10, 2023, Utility Meeting. Ayes: all those in attendance. Nays: none.

3. Review Task Order Amendment #3 Wastewater UV Disinfection Improvements. – FOX Strand.

Laurie Twitchell, Project Manager with FOX Strand, presented Contract Amendment #3 extending FOX Strand's engineering construction administration and resident project representative services five (5) months to February 17, 2024, for the Wastewater UV Disinfection Project in an amount not to exceed \$28,500.00. The additional services include planning and participation in two (2) additional progress meetings, review of additional payment requests, additional site visits, and time related to the Contractor's liquidated damages determinations. Stines moved; Angstrom seconded to recommend bringing Contract Amendment #3 in the amount not to exceed \$28,500.00 through February 17, 2024, to full Council for approval at the next Council meeting. Ayes: all those in attendance. Nays: none.

The Committee also discussed any potential recourse the City could take against King Construction to get the UV project finished, including writing a letter to their bonding company.

4. Update on Sewer Lining Project.

Andrews advised that he accepted the lowest bids from Accu Jet LLC for three (3) separate Sanitary Sewer CIPP projects installing 8-inch sanitary liner at 7th Street from Division to McPhearson in the amount of \$28,050.00; Story Street from Woodland to Union for \$59,808.08, and Story Street from 1st Street to Mamie Eisenhower Avenue for \$39,960.00.

5. Review September and October 2023 US Water Monthly Report.

The Committee reviewed the monthly US Water and Wastewater Operations and Maintenance Report for September and October 2023.

6. Meter Upgrade Report.

a. October

Andrews reported that in October staff finished twelve (12) meter upgrades, three (3) meters were installed for new service, and nine (9) meters were changed out due to other reasons.

Andrews stated staff did one hundred sixty-one (161) locates.

7. Stop Box Repair/Shut Off Report.

a. October

Vote reported that in October, \$7,728.06 was collected during shut offs; thirty-six (36) accounts qualified to be on the shut off list. No delinquent bills were certified in October 2023, but if left unpaid, eighteen (18) bills totaling \$6,870.27 are scheduled to be certified on November 27, 2023. Vote also reported that there are one hundred twenty-five (125) stop boxes in need of repair, fifty-four (54) of which have lead service lines.

Skare reminded the Committee that staff does not do shut offs in November and December due to the holidays.

8. Other Business.

9. Adjourn.

5:02 p.m.

Kim Majors

To: Kerry Foster
Subject: RE: 2221 1st Street Water/Utility Bill

I am emailing to request that Leigh Foster be added to the agenda at the next water/utility board meeting on December 12th. He would like to discuss the bill from 9/1/23-10/3/23 which was dramatically higher than previous months. Normally our bill is around \$27-\$31, during this period, it was \$499.09. It is our understanding that it was an exterior hose bib causing the leak, so we would like the sewer charges removed from the bill.

Thank You,

KERRY FOSTER
BOONE GLASS COMPANY
2329 FIRST ST.
PO BOX 4
BOONE, IOWA 50036
P: 515.432.8265
F: 515.432.4287
KERRY@BOONEGLASS.COM
WWW.BOONEGLASS.COM



November 2023

City of Boone, Iowa

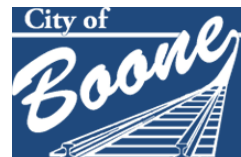
Water & Wastewater Treatment Facilities, Storage, and Lift Stations
Monthly Operations & Maintenance Report

Prepared by:



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

Prepared For:



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

November 2023

City of Boone
William J. Skare, City Administrator
923 8th Street
Boone, IA 50036

November Monthly Water & Wastewater Operations Report

Dear Mr. Skare:

In accordance with contract requirements, we are pleased to provide the following monthly report for November 2023. Below is a list of the significant events that occurred during the month:

SUBMITTED TO: William J. Skare, 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

Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		November-2022	November-2023
Water	Units		
Average Daily Pumped	gallons	1,511,000	1,941,000
Maximum Daily Pumped	gallons	1,746,000	2,389,000
Minimum Daily Pumped	gallons	1,306,000	1,527,000
Hardness			
Hardness - Avg Raw	grains	20.1	18.5
Hardness - Avg Finish	grains	10.4	8.7
Iron mg/l			
Avg Raw	mg/L	.02	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.60	.52
Avg Finish Fl.	mg/L	.78	.79

Water Storage

During the month of November, all three water towers were in operation as well as the 2-million-gallon reservoir and 100,000 gallon contact basin for a total of 3,700,000 gallons of storage.

Maintenance Report

During the month of November, the High Service Pump Station chlorine room electric ventilation fan motor was rebuilt, and bearings replaced. We rotated the lime slakers, cleaned and serviced lime slakers #1 and #2, replaced bearings and seals on lime slaker #2, and verified the five turbidity meters weekly. We calibrated all five turbidity meters, cleaned and verified calibration on CL2 analyzers weekly, and replaced the rooftop dehumidifier filters.

The grass was mowed at the Water Plant, Water Towers, and Pump Station for the last time of the season. We mowed around lime ponds and well field. Cleaned and service the water distiller used in the laboratory, installed a new liquid chlorine pump and feed tubing at the High Service Pump Station, modified plumbing and installed a new chlorine injection quill in the High Service Pump Room. We repaired door closers at the pump station and repaired high service pump #3 solenoid valves.

Current & Planned Projects

During the month of December, we plan on replacing dehumidifier filters, working on claricone valves, repairing and cleaning the well, modifying the slaker ventilation system, rotating claricones, and other miscellaneous maintenance.

Health & Safety

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

The subjects of the monthly safety training were: Avoid Harm from Lab Hazards, Night Work Safety, Carbon Monoxide Silent Killer, Reducing Risk Of Workplace Violence, And Respiratory Protection Overview .

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	33.6	•	MGD
Average per day	1.12	•	MGD
Minimum	0.977	•	MGD
Maximum	1.24	•	MGD

Parameter	Wastewater Influent & Effluent Quality							
	Influent		Effluent					
	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	254	2309	•	•	•	•	•	•
CBOD ₅	•	•	3	•	3	40	3	25
Suspended solids	188	1739	3.8	•	3	45	3	30
Nitrogen Ammonia	30.1	274	.1	17.7	.1	•	.1 MG/L	1.0 MG/L
Nitrate Nitrogen	•	•	131 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	10	>5.0	9.68	•	9.22	>5.0
pH	7.44	•	7.8	6.5 to 9 STD Units	7.7	•	7.60	6.5 to 9 STD Units

ND= No Detection

• = No limit set

Solids Inventory

During the month of November, we pressed sludge for 3 days (100,000 gallons) and hauled 47.59 tons.

Lift Stations

The lift station on Airport Road has had problems with Pump 1 not pumping for a while. It is unable to prime or keep a prime when the pump is off. Working with contractor to address the problem.

Generator Install at 14th and Division: Waiting on Start-up from 3E

Generator Install at 220th Lift Station scheduled for completion on 12-5-23

Maintenance Report

11-6-23: Electric pump fixed the cord to UV System Bank 1A

11-15-23: Changed the belts on Makeup Air Handling Unit #1

11-15-23: Prichards replaced the 30 gallon water heater in Screening and Grit Building

11-17-23: Planned outage from Alliant Energy, plant generator ran for 2 hours.

11-21-23: Krucks replaced solenoid valve on South Grit System

11-22-23: Winterized the UV system

Trojan Tech is coming on January 16th and 17th to inspect UV Unit and Weir Gate

Sixty (60) Preventive Maintenance Work orders Completed.

Current & Planned Projects

RAS pumps replacement-(currently in Engineering)

Sand Blasting on North Clarifier: Project will resume in summer 2024.

Roof Replacements-(currently in Engineering)

In-plant Lift Station-(currently in Engineering)

Preliminary Screen Install-(currently in Engineering)

Health & Safety

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

The subjects of the monthly safety training were Avoid Slips and Trips.

Regulatory Reports

See attached documents

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: November

YEAR: 2023

DAY	Finished Water			Filter Effluent																Raw Water Turbidity (Highest Daily Reading NTU)	
	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (NTU)	#1			#2			#3			#4								
				Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU						
1	19	0	.02	.02	.02	.03	0	.02	.02	.04	0	.02	.02	.03	0	.02	.01	.03	0	0.07	
2	18	0	.03	.01	.01	.03	0	.01	.01	.06	0	.01	.01	.02	0	.02	.02	.05	0	0.07	
3	20	0	.02	.05	.03	.07	0	.01	.01	.05	0	.01	.01	.02	0	.01	.01	.02	0	0.06	
4	19	0	.03	.07	.06	.07	0	.01	.01	.07	0	.01	.01	.03	0	.01	.01	.02	0	0.06	
5	19	0	.04	.01	.01	.04	0	.01	.01	.05	0	.02	.02	.04	0	.01	.01	.06	0	0.06	
6	20	0	.02	.02	.02	.03	0	.01	.01	.05	0	.01	.01	.02	0	.02	.01	.02	0	0.07	
7	23	0	.02	.04	.04	.04	0	.01	.01	.02	0	.01	.01	.01	0	.01	.01	.02	0	0.07	
8	22	0	.02	.04	.07	.07	0	.02	.02	.05	0	.01	.01	.03	0	.01	.01	.02	0	0.06	
9	24	0	.06	.02	.02	.02	0	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	0.06	
10	24	0	.02	.02	.02	.02	0	.01	.01	.01	0	.01	.02	.02	0	.02	.02	.02	0	0.07	
11	24	0	.05	.05	.03	.05	0	.01	.01	.01	0	.02	.01	.02	0	.01	.01	.02	0	0.07	
12	24	0	.02	.05	.05	.05	0	.02	.01	.02	0	.02	.02	.02	0	.01	.01	.01	0	0.07	
13	24	0	.02	.02	.02	.02	0	.01	.02	.02	0	.02	.02	.07	0	.02	.02	.02	0	0.07	
14	23	0	.04	.02	.02	.02	0	.01	.01	.05	0	.01	.01	.03	0	.02	.02	.03	0	0.07	
15	24	0	.02	.06	.06	.06	0	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.07	
16	24	0	.02	.05	.06	.06	0	.02	.02	.02	0	.01	.01	.01	0	.01	.01	.02	0	0.07	
17	21	0	.02	.02	.02	.02	0	.02	.01	.05	0	.02	.02	.02	0	.02	.02	.02	0	0.07	
18	22	0	.02	.02	.02	.03	0	.01	.01	.03	0	.01	.01	.02	0	.02	.02	.02	0	0.06	
19	22	0	.02	.04	.05	.05	0	.02	.02	.02	0	.01	.01	.02	0	.02	.01	.02	0	0.06	
20	22	0	.02	.05	.06	.06	0	.02	.02	.02	0	.01	.02	.02	0	.02	.02	.02	0	0.06	
21	20	0	.02	.02	.02	.03	0	.02	.02	.05	0	.02	.02	.02	0	.02	.02	.02	0	0.06	
22	24	0	.01	.02	.02	.02	0	.02	.02	.02	0	.01	.01	.01	0	.02	.02	.02	0	0.06	
23	24	0	.01	.04	.04	.04	0	.02	.02	.02	0	.01	.01	.01	0	.02	.02	.02	0	0.06	
24	24	0	.02	.05	.06	.06	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.06	
25	20	0	.02	.02	.02	.02	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.06	
26	24	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.16	0	.02	.02	.13	0	0.06	
27	24	0	.01	.04	.04	.04	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.03	0	0.06	
28	23	0	.02	.05	.05	.05	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.06	
29	22	0	.02	.02	.02	.03	0	.02	.02	.07	0	.02	.02	.07	0	.02	.02	.08	0	0.07	
30	22	0	.02	.02	.02	.03	0	.02	.02	.05	0	.02	.02	.06	0	.02	.02	.04	0	0.07	
Total	665	0					0				0				0				0		
Avg																					0.06
Max			.06			.07				.07				.16				.13			0.07
Min																					0.06

**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: 12/5/2023

**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: November

YEAR: 2023

DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl ₂ Used
	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day		Quantity Used in lbs.	Finished Water (mg/L)	Source/Entry Point (S/EP)				Distribution					
			Number of Hours of Treatment Plant Operation Per Day			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	1,839	1,527	18.25	34	0.81	"C"	(F)	2.02	0	1	0.94	0	0.94	24.2	50
2	2,000	1,698	19.75	36	0.80	"C"	(F)	1.97	0	1	0.96	0	0.96	21.2	62
3	1,912	1,596	19.00	33	0.81	"C"	(F)	1.97	0	1	0.96	0	0.96	22.3	55
4	1,939	1,655	18.25	35	0.78	"C"	(F)	1.97	0	1	1.01	0	1.01	21.5	56
5	2,014	1,690	20.00	34	0.78	"C"	(F)	2.01	0	1	1.01	0	1.01	21.1	54
6	2,295	1,959	22.75	42	0.77	"C"	(F)	1.99	0	6	1.03	0	1.03	18.7	66
7	2,210	1,958	22.00	40	0.89	"C"	(F)	2.04	0	1	1.05	0	1.05	18.3	61
8	2,368	2,071	23.75	42	0.87	"C"	(F)	1.99	0	1	1.05	0	1.05	17.0	63
9	2,411	2,233	24.00	40	0.91	"C"	(F)	1.96	0	1	1.08	0	1.08	16.4	66
10	2,406	1,906	24.00	42	0.93	"C"	(F)	1.92	0	1	1.06	0	1.06	15.6	65
11	2,371	2,094	24.00	42	0.84	"C"	(F)	1.94	0	1	1.06	0	1.06	15.9	68
12	2,380	2,052	24.00	41	0.98	"C"	(F)	1.94	0	1	1.07	0	1.07	15.8	72
13	2,346	2,103	22.75	40	1.05	"C"	(F)	1.97	0	6	1.10	0	1.10	16.3	66
14	2,477	2,389	24.00	42	0.94	"C"	(F)	2.02	0	2	1.09	0	1.09	15.7	71
15	2,630	1,974	24.00	44	0.83	"C"	(F)	2.04	0	1	1.11	0	1.11	14.5	74
16	2,321	2,098	21.00	40	0.82	"C"	(F)	1.99	0	1	1.12	0	1.12	16.3	63
17	2,324	2,020	20.75	40	0.89	"C"	(F)	1.75	0	1	1.13	0	1.13	14.0	62
18	2,406	1,961	21.50	35	0.87	"C"	(F)	1.65	0	1	1.22	0	1.22	13.0	57
19	2,433	2,066	21.75	29	0.89	"C"	(F)	1.51	0	1	1.28	0	1.28	12.0	59
20	2,214	1,828	19.75	23	0.79	"C"	(F)	1.20	0	5	1.29	0	1.29	5.8	49
21	2,390	2,083	23.75	21	0.69	"C"	(F)	1.16	0	1	1.26	0	1.26	9.7	57
22	2,363	1,969	24.00	16	0.67	"C"	(F)	1.36	0	1	1.23	0	1.23	10.9	54
23	2,385	1,965	24.00	18	0.64	"C"	(F)	1.41	0	1	1.20	0	1.20	11.0	53
24	2,009	1,585	20.50	18	0.58	"C"	(F)	1.31	0	1	1.62	0	1.62	12.2	39
25	2,373	2,054	24.00	14	0.71	"C"	(F)	1.25	0	1	1.15	0	1.15	10.0	48
26	2,344	1,999	24.00	15	0.63	"C"	(F)	1.19	0	1	1.14	0	1.14	9.7	37
27	2,511	1,985	22.75	27	0.59	"C"	(F)	1.07	0	1	1.14	0	1.14	8.2	56
28	2,363	2,045	21.25	23	0.62	"C"	(F)	0.78	0	1	1.13	0	1.13	6.1	47
29	2,430	2,098	21.75	17	0.58	"C"	(F)	0.83	0	1	1.10	0	1.10	6.2	47
30	1,843	1,561	16.75	21	0.62	"C"	(F)	0.86	0	1	1.07	0	1.07	8.5	38
Total	68,307	58,222	658.00	944						45		0			1,715
Avg	2,277	1,941	22.14	31	0.79										57
Max	2,630	2,389	24.00	44	1.05				0				1.62		74
Min	1,839	1,527	16.75	14	0.58			0.78			0.94			5.8	37

*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: 12/5/2023

**SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT
IOWA DNR WATER SUPPLY**

Basic Information

S/EP: #1

System Name: _____ PWSID #: 819033 Month: November Year: 2023

Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity Highest Daily Reading (NTU)	Settled Turbidity (individual sedimentation basin)				Gallons of Liquid Chlorine used, 15%				
		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 Sed 1 (NTU)	Highest Daily Reading Sed 2 (NTU)	Highest Daily Reading Sed 3 (NTU)	Highest Daily Reading Sed 4 (NTU)					
1	18.25	1839.00	1527.00	34.00	0.81	0.07		0.49							
2	19.75	2000.00	1698.00	36.00	0.80	0.07		0.27							
3	19.00	1912.00	1596.00	33.00	0.81	0.06		0.88							
4	18.25	1939.00	1655.00	35.00	0.78	0.06		0.21							
5	20.00	2014.00	1690.00	34.00	0.78	0.06		0.27							
6	22.75	2295.00	1959.00	42.00	0.77	0.07		0.43							
7	22.00	2210.00	1958.00	40.00	0.89	0.07		0.40							
8	23.75	2368.00	2071.00	42.00	0.87	0.06		0.43							
9	24.00	2411.00	2233.00	40.00	0.91	0.06		0.48							
10	24.00	2406.00	1906.00	42.00	0.93	0.07		0.52							
11	24.00	2371.00	2094.00	42.00	0.84	0.07		0.49							
12	24.00	2380.00	2052.00	41.00	0.98	0.07		0.36							
13	22.75	2346.00	2103.00	40.00	1.05	0.07		0.83							
14	24.00	2477.00	2389.00	42.00	0.94	0.07		0.51							
15	24.00	2630.00	1974.00	44.00	0.83	0.07		0.53							
16	21.00	2321.00	2098.00	40.00	0.82	0.07		0.47							
17	20.75	2324.00	2020.00	40.00	0.89	0.07		0.61			20.50				
18	21.50	2406.00	1961.00	35.00	0.87	0.06		0.57			14.30				
19	21.75	2433.00	2066.00	29.00	0.89	0.06		0.60			13.40				
20	19.75	2214.00	1828.00	23.00	0.79	0.06		0.93			11.80				
21	23.75	2390.00	2083.00	21.00	0.69	0.06		0.83			13.00				
22	24.00	2363.00	1969.00	16.00	0.67	0.06		0.30			12.40				
23	24.00	2385.00	1965.00	18.00	0.64	0.06		0.30			12.00				
24	20.50	2009.00	1585.00	18.00	0.58	0.06		0.21			9.60				
25	24.00	2373.00	2054.00	14.00	0.71	0.06		0.18			12.60				
26	24.00	2344.00	1999.00	15.00	0.63	0.06		0.36			12.50				
27	22.75	2511.00	1985.00	27.00	0.59	0.06		0.81			12.80				
28	21.25	2363.00	2045.00	23.00	0.62	0.06		0.55			13.00				
29	21.75	2430.00	2098.00	17.00	0.58	0.07		0.59			15.80				
30	16.75	1843.00	1561.00	21.00	0.62	0.07		0.52			12.00				
Total	658	68,307	58,222	944							185.7	0	0	0	0
Avg	21.23	2,203	1,878	30.45	0.76	0.06	#DIV/0!	0.50	#DIV/0!	#DIV/0!	13.26	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	24.00	2,630	2,389	44.00	1.05	0.07	0.00	0.9	0.0	0.00	20.50	0.00	0.00	0.00	0.00
Min	0.00	0	0	0.00	0.00	0.00	0.00	0.18	0.00	0.00	9.60	0.00	0.00	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: 12/5/2023

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

This form is valid 2/1/2023 to 7/31/2024

Facility Name: BOONE CITY OF STP

Permit #: 0819001

Month/Year:

Nov	2023
-----	------

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

Operator Name:

John Roberts

Certification #:

10924

Phone #:

7122590808

Lab Cert. #:

156

Comments:

--

**Include Comments longer than 1000 characters in email*

Signature:

John Roberts

<p>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 possibility of fine and imprisonment for known violations.</p>
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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: Nov-2023

Mon. Point	RAW WASTE												TEMP FAHRENHEIT	PH STD UNITS	
	Parameter	FLOW	BOD5		TSS		TOT-N		TKN		PHOS				
Units	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY		
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	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	Permit Duration	Permit Duration
No Discharge															
LOQ															
Day: 1	1.208	205	2065.3176	140	1410.4608									62	7.6
2	1.192													62	7.6
3	1.182	246	2425.03848											62	7.3
4	1.244														
5	1.224														
6	1.119			231	2155.79826									64	7.4
7	1.184					36.11	350.5472136	36	349.47936	6.7	65.041992			62	7.4
8	1.134	225	2127.951	235	2222.5266									64	7.3
9	1.196													64	7.5
10	1.145	122	1165.0146											66	7.6
11	1.153														
12	1.168														
13	1.124			174	1631.10384									64	7.4
14	1.12					37.49	350.186592	37	345.6096	6.8	63.51744			64	7.4
15	1.101	225	2066.0265	126	1156.97484									64	7.5
16	1.094													64	7.4
17	1.073	262	2344.59084											64	7.5
18	1.098														
19	1.155														
20	1.085			168	1520.2152									62	7.5
21	1.056					40.1	353.162304	40	352.2816	7.2	63.410688			62	7.5
22	1.033	289	2489.79858	219	1886.73318									62	7.5
23	0.977	430	3503.7174											62	7.3
24	0.981													60	7.5
25	1.062														
26	1.149														
27	1.092			203	1848.77784									60	7.4
28	1.088					40.1	363.864192	40	362.9568	7.2	65.332224			60	7.4
29	1.093	286	2607.06732	200	1823.124									62	7.5
30	1.071													62	7.5
31															
Total	33.581	2290	20794.52232	1696	15655.71456	153.8	1417.760302	153	1410.32736	27.9	257.302344			1378	164
Monthly Avg.	1.119366667	254.4444444	2310.50248	188.4444444	1739.52384	38.45	354.4400754	38.25	352.58184	6.975	64.325586			62.63636364	7.454545455
Daily Max.	1.244	430	3503.7174	235	2222.5266	40.1	363.864192	40	362.9568	7.2	65.332224			66	7.6
Daily Min.	0.977	122	1165.0146	126	1156.97484	36.11	350.186592	36	345.6096	6.7	63.410688			60	7.3
Max. 7/Avg.	1.190428571	359.5	2996.75799	211	1926.81522	40.1	363.864192	40	362.9568	7.2	65.332224			64.4	7.48

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: Nov-2023

Mon. Point Parameter	EFFLUENT PRIOR TO DISINFECTION												EFFLUENT AFTER DISINFECTION					
	CBOD5		TSS		NH3-N		NO3-N		TOT-N		PHOS		TOX CER	TOX PIM	TEMP	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	NO TOXICITY	NO TOXICITY	FAHRENHEIT	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 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK	QEO MEAN 12 MONTHS
Start Date																		8/1/2023
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	7/31/2024
No Discharge													06 - NOT REQ / MP	06 - NOT REQ / MP				06 - NOT REQ / MP
LOC																		
Day:1	3	30.22416		3	30.22416	0.1	1.007472								56	9.3		7.7
2						0.1	0.994128								58	9.3		7.6
3	3	29.57364		3	29.57364	0.1	0.985788								58	9.1		7.8
4																		
5																		
6															62	8.5		7.5
7															62	8.8		7.8
8	3	28.37268		3	28.37268	0.1	0.945756	16.2	157.265712	4.3	41.743368				62	8.9		7.8
9						0.1	0.997464								62	9.3		7.4
10	3	28.6479		3	28.6479	0.1	0.95493								60	8.8		7.5
11																		
12																		
13																		
14						0.1	0.93408	131	15.4	143.84832	5.3	49.50624			60	9.1		7.6
15	3	27.54702		3	27.54702	0.1	0.918234								60	9.4		7.6
16						0.1	0.912396								60	9.1		7.6
17	3	26.84646		3	26.84646	0.1	0.894882								58	9.2		7.7
18																		
19																		
20																		
21						0.1	0.880704	16.4	144.435456	5.5	48.43872				57	9.3		7.6
22	3	25.84566		3	25.84566	0.1	0.861522								57	8.5		7.5
23	3	24.44454		3	24.44454	0.1	0.814818								56	9.5		7.6
24						0.1	0.818154								54	10		7.8
25																		
26																		
27																		
28						0.1	0.907392	17.6	159.700992	3.3	29.943936				52	9.8		7.7
29	3	27.34686		3	27.34686	0.1	0.911562								54	9.7		7.7
30						0.1	0.893214								54	9.5		7.7
31															54	9.2		7.7
Total	27	248.84892		27	248.84892	1.8	16.603272	131	65.6	605.25048	18.4	169.832264			127.2	203		16.4
Monthly Avg.	3	27.64988		3	0.922404	0.1	0.922404	131	16.4	151.31262	4.6	42.408066			57.818182	9.227272727		7.609090909
Daily Max.	3	30.22416		3	30.22416	0.1	1.007472	131	17.6	159.700992	5.5	49.50624			62	10		7.9
Daily Min.	3	24.44454		3	24.44454	0.1	0.814818	131	15.4	143.84832	3.3	29.943936			52	8.5		7.4
Max. 7/Avg.	3	29.8989		3	29.8989	0.1	0.989541	131	17.6	159.700992	5.5	49.50624			60.8	9.68		7.7



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

www.USWUtilityGroup.com

UPGRADE PROGRAM		November 2023				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
11/8/2023	1604 Timberlane H	2/19/2004				
11/8/2023	1604 Timberlane L	2/19/2004				
11/9/2022	1522 Crawford	Out for Winter				
11/9/2023	509 Marshall	Frozen/ Missing				
11/6/2023	414 Clay	7/18/2012				
11/1/2023	1212 Hawkeye Dr	New Service				
11/2/2023	349 S Marion	Frozen				
11/3/2023	1123 W 4th H	05/26/99				
11/3/2023	1123 W 4th L	05/26/99				
11/8/2023	228 Tama	Frozen				
11/17/2023	1304 Champa	2/25/2005				
11/20/2023	1204 W 1St	New Service				
11/21/2023	702 Story	5/16/2014				
11/21/2023	121 Cedar	10/27/1998				
11/21/2023	1330 Mamie	3/31/1999				
11/21/2023	218 11th	Out for winter				
11/27/2023	1315 1st	10/8/2003				
11/27/2023	510 Cedar	5/10/2000				
11/27/2023	812 Story St	2/17/2005				
11/30/2023	227 Linn	5/26/1999				
11/30/2023	303 S Boone	Warranty				
11/30/2023	1213 Nightengale	5/5/2006				
11/30/2023	1710 Boone	Removal				
Locates						
11/1 to 12/1		148				

Curb Box Repair Update for 12/12/2023 – as of 12/08/2023

Per policy, we do not shut off during the months of November or December.

124 stop boxes need repaired, 53 of which have lead service lines.

13 delinquent bills certified in November. If left unpaid, 31 delinquent bills totaling \$11,155.68 are scheduled to certify in January.

Lesli Vote
Utility Billing Supervisor