

UTILITY COMMITTEE Meeting Notice

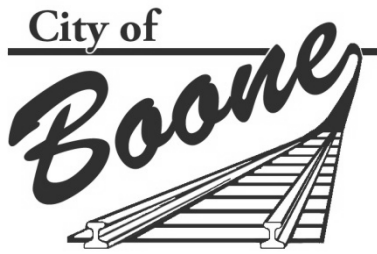
Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: January 16, 2024

Time of Meeting: 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.
2. Approve Minutes from the December 12, 2023 Meeting.
3. Review Iowa Department of Natural Resources (IDNR) Report for the Water Treatment Plant.
4. Discuss Chapter 91 Regarding Civil Penalties.
5. Review December 2023 US Water Monthly Report.
6. Meter Upgrade Report.
 - a. December
7. Stop Box Repair/Shut Off Report.
 - a. December
8. Other Business.
9. Adjourn.



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.

Present: Moorman, Stines, Angstrom

Others present: Skare, Andrews, Majors, Vote, Turbes, Leigh Foster

2. Approve Minutes from the November 14, 2023 Meeting.

Stines moved; Angstrom seconded to approve the minutes from the November 14, 2023, Utility Meeting. Ayes: all those in attendance. Nays: none.

3. Request to Remove \$320.82 Sewer Charge. – Boone Glass Company.

Leigh Foster presented a request to the Committee to remove the \$320.82 sewer charge from a \$499.09 water bill. Foster stated that no leaks were found inside the building, and it is his understanding that an exterior hose bib caused the leak. Andrews also advised that staff did not find any interior leak. Moorman stated that if the leak occurred outside, the City did not incur any expenses treating the water. Stines moved; Angstrom seconded to remove the \$320.82 sewer charge as the exterior leak was not processed. Ayes: all those in attendance. Nays: none. Foster will also sign up for leak protection.

4. Review November 2023 US Water Monthly Report.

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

5. Meter Upgrade Report.

- a. November

Andrews reported that in November staff finished twenty-three (23) meter upgrades, two (2) meters were installed for new service, and twenty-one (21) meters were changed out due to other reasons.

6. Stop Box Repair/Shut Off Report.

- a. November

Vote stated that staff does not shut water off in November and December. Thirteen (13) delinquent bills were certified in November 2023, but if left unpaid, thirty-one (31) bills totaling \$11,155.68 are scheduled to be certified in January. Vote also reported that there are one hundred twenty-four (124) stop boxes in need of repair, fifty-three (53) of which have lead service lines.

7. Other Business.

8. Adjourn.

4:48 p.m.

December 2023

City of Boone, Iowa

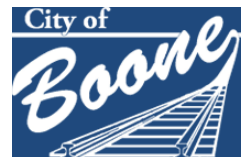
Water & Wastewater Treatment Facilities, Storage, and Lift Stations
Monthly Operations & Maintenance Report

Prepared by:



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

Prepared For:



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

December 2023

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

December Monthly Water & Wastewater Operations Report

Dear Mr. Skare:

In accordance with contract requirements, we are pleased to provide the following monthly report for December 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			
		December-2022	December-2023
Water	Units		
Average Daily Pumped	gallons	1,532,000	1,526,000
Maximum Daily Pumped	gallons	1,951,000	1,881,000
Minimum Daily Pumped	gallons	1,387,000	1,208,000
Hardness			
Hardness - Avg Raw	grains	22.2	19.1
Hardness - Avg Finish	grains	10.8	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	.54	.50
Avg Finish Fl.	mg/L	.68	.70

Water Storage

During the month of December 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 December staff rotated slakers, cleaned and serviced slakers #1 and #2, verified five turbidity meters weekly, calibrated all five turbidity meters, cleaned and verified calibration on CL2 analyzers weekly, replaced rooftop dehumidifier filters, cleaned and serviced water distiller, installed liquid chlorine bulk tank at pump station and repaired all four chemical pumps.

Current & Planned Projects

During the month of January, we plan to replace dehumidifier filters, rotate the claricones, change oil in all three high service pumps and service chemical feed pumps, complete well #25 repair, well #19, #26 and #28 inspection and cleaning, along with other preventative and misc. corrective maintenance.

Health & Safety

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

The subjects of the monthly safety training were Avoid Arc Flash, Job Hazard Analysis, Be Prepared for an Emergency, Avoid Slips and Trips and Materials Handling.

Regulatory Reports

See attached documents.

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	34.7	•	MGD
Average per day	1.12	•	MGD
Minimum	0.92	•	MGD
Maximum	1.84	•	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	238	2145	•	•	•	•	•	•
CBOD ₅	•	•	3	•	3	40	3	25
Suspended solids	189	1694	6.0	•	5	45	4.5	30
Nitrogen Ammonia	27.4	247	.1	16	.1	•	.1 MG/L	2.5 MG/L
Nitrate Nitrogen	•	•	120 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	10.0	>5.0	9.70	•	9.50	>5.0
pH	7.46	•	7.8	6.5 to 9 STD Units		•	7.64	6.5 to 9 STD Units

ND= No Detection

• = No limit set

Solids Inventory

During the month of December, we pressed for 10 days (273,000 gallons) and hauled 123.71 tons.

Lift Stations

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.

Generator Install at 14th and Division 12-8-23 **Completed**

Generator Install at 220th Lift Station 12-5-23 **Completed**

Fence Install at 220th 1-05-24 **Completed**

12-13-23: Automatic Systems looked at 220th Lift Station to see why the pumps were failing when it went from normal power to generator power and vice versa.

12-20-23: JD got an email from Ag Certain saying that their flow meter is hooked-up and running.

Maintenance Report

12-12-23: State Emergency Management took the Portable Generator

12-13-23: Lifted three sludge plows on North Clarifier to keep it from scraping the bottom. Also adjusted the skimmer.

12-14-23: Adjusted the top sensor for the belt press.

12-19-23: NBS calibrated our TSS scale and our digital thermometer per State requirements.

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

Sixty (60) Preventive Maintenance Work orders were completed in December

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 was Materials Handling Construction

Regulatory Reports

See attached documents

Monthly Water & Wastewater Operations Report

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: 2023								
DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl ₂ Used				
	Raw in 1000s Gallons Per Day	To System in 1000s Gallons Per Day		Quantity Used in lbs.	Finished Water (mg/L)	Source/Entry Point (S/EP)				Distribution									
			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 15 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	1,871	1,589	17.00	5	0.64	"C"	(F)	0.84	0	1	1.05	0	1.05	8.1	40				
2	1,527	1,293	13.75	15	0.75	"C"	(F)	0.79	0	1	1.01	0	1.01	9.6	32				
3	2,187	1,881	20.25	14	0.65	"C"	(F)	0.81	0	1	0.97	0	0.97	7.1	47				
4	1,903	1,575	17.50	12	0.60	"C"	(F)	0.97	0	6	0.95	0	1.57	9.8	39				
5	1,869	1,559	17.25	11	0.54	"C"	(F)	0.98	0	1	0.94	0	0.94	9.8	41				
6	1,903	1,618	17.50	11	0.59	"C"	(F)	0.97	0	1	0.93	0	0.93	9.5	41				
7	1,808	1,528	16.50	15	0.58	"C"	(F)	0.96	0	1	0.90	0	0.90	10.0	38				
8	1,925	1,639	17.75	14	0.58	"C"	(F)	0.95	0	1	0.90	0	0.90	8.8	41				
9	1,482	1,212	13.75	26	0.74	"C"	(F)	0.98	0	1	0.87	0	0.87	11.9	31				
10	2,062	1,766	19.00	21	0.61	"C"	(F)	0.90	0	1	0.85	0	0.85	7.9	45				
11	1,777	1,491	17.00	13	0.70	"C"	(F)	0.98	0	6	0.81	0	1.37	10.0	40				
12	1,830	1,540	16.50	14	0.69	"C"	(F)	0.95	0	1	0.81	0	0.81	8.8	38				
13	1,803	1,527	16.75	14	0.74	"C"	(F)	0.98	0	1	0.81	0	0.81	9.3	40				
14	1,923	1,641	17.75	17	0.74	"C"	(F)	0.99	0	1	0.74	0	0.74	8.8	41				
15	1,618	1,353	15.00	15	0.74	"C"	(F)	1.02	0	1	0.79	0	0.79	10.8	37				
16	1,911	1,624	17.75	18	0.66	"C"	(F)	0.97	0	1	0.81	0	0.81	8.8	40				
17	1,904	1,611	17.25	14	0.68	"C"	(F)	0.91	0	1	0.81	0	0.81	8.4	41				
18	1,859	1,583	17.25	20	0.66	"C"	(F)	0.95	0	1	0.83	0	0.83	8.9	40				
19	1,843	1,555	17.00	21	0.72	"C"	(F)	0.96	0	6	0.84	0	1.37	9.1	38				
20	1,773	1,494	16.50	16	0.65	"C"	(F)	0.94	0	1	0.85	0	0.85	8.9	37				
21	1,991	1,703	19.50	22	0.68	"C"	(F)	0.92	0	1	0.87	0	0.87	7.8	45				
22	1,648	1,375	15.25	18	0.78	"C"	(F)	0.95	0	1	0.86	0	0.86	9.7	33				
23	2,059	1,765	19.00	17	0.80	"C"	(F)	0.93	0	1	0.85	0	0.85	7.8	42				
24	1,478	1,208	13.75	19	0.72	"C"	(F)	0.96	0	1	0.83	0	0.83	11.1	32				
25	1,726	1,461	17.00	18	0.71	"C"	(F)	0.91	0	1	0.79	0	0.79	9.0	37				
26	1,584	1,328	16.00	19	0.75	"C"	(F)	0.91	0	1	0.79	0	0.79	9.7	34				
27	1,825	1,547	18.25	21	0.81	"C"	(F)	0.92	0	1	0.77	0	0.77	8.4	39				
28	1,697	1,268	16.25	20	0.66	"C"	(F)	0.93	0	1	0.77	0	0.77	8.9	34				
29	2,132	1,756	20.00	24	0.83	"C"	(F)	0.98	0	1	0.77	0	0.77	7.5	45				
30	1,807	1,515	16.75	25	0.78	"C"	(F)	1.03	0	1	0.77	0	0.77	8.6	40				
31	1,560	1,300	15.50	20	0.88	"C"	(F)	0.96	0	1	0.79	0	0.79	9.4	32				
Total	56,285	47,305	526.25	529						46		0			1,200				
Avg	1,816	1,526	17.14	17	0.70										39				
Max	2,187	1,881	20.25	26	0.88				0				1.57		47				
Min	1,478	1,208	13.75	5	0.54			0.79			0.74			7.1	31				
*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: 1/4/2024	

Monthly Water & Wastewater Operations Report

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: 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 >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	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU		
1	17	0	.06	.05	.04	.06	0	.02	.02	.12	0	.01	.01	.13	0	.02	.02	.06	0	0.06
2	16	0	.02	.03	.04	.05	0	.02	.02	.07	0	.02	.02	.05	0	.02	.02	.05	0	0.08
3	15	0	.03	.02	.02	.02	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.09
4	21	0	.03	.02	.02	.03	0	.02	.02	.07	0	.02	.02	.05	0	.02	.02	.13	0	0.06
5	18	0	.03	.04	.04	.04	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.06
6	17	0	.03	.05	.03	.05	0	.02	.02	.03	0	.02	.02	.07	0	.02	.02	.02	0	0.06
7	18	0	.02	.02	.02	.03	0	.02	.02	.08	0	.02	.02	.07	0	.02	.02	.06	0	0.06
8	17	0	.04	.02	.02	.04	0	.02	.02	.06	0	.02	.02	.04	0	.02	.02	.04	0	0.06
9	17	0	.02	.04	.04	.04	0	.02	.02	.13	0	.02	.02	.08	0	.02	.02	.06	0	0.06
10	15	0	.02	.02	.02	.08	0	.02	.02	.23	0	.02	.02	.10	0	.02	.02	.06	0	0.07
11	19	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.06
12	17	0	.03	.02	.02	.03	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.03	0	0.06
13	17	0	.03	.05	.05	.05	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.07
14	18	0	.02	.04	.03	.05	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
15	18	0	.03	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.03	0	0.07
16	15	0	.02	.02	.02	.04	0	.02	.02	.14	0	.02	.02	.14	0	.02	.02	.28	0	0.07
17	17	0	.03	.04	.04	.04	0	.02	.02	.05	0	.02	.02	.05	0	.02	.02	.02	0	0.07
18	17	0	.02	.04	.03	.07	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
19	18	0	.02	.02	.02	.02	0	.02	.02	.04	0	.03	.02	.03	0	.02	.02	.02	0	0.07
20	17	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.03	0	0.07
21	17	0	.03	.03	.04	.04	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.03	0	0.07
22	19	0	.02	.04	.05	.05	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
23	15	0	.02	.02	.02	.03	0	.02	.02	.09	0	.03	.03	.07	0	.02	.02	.07	0	0.07
24	20	0	.02	.02	.02	.04	0	.02	.02	.07	0	.02	.02	.06	0	.02	.02	.06	0	0.07
25	15	0	.02	.04	.04	.04	0	.02	.02	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.07
26	17	0	.02	.04	.04	.04	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.06
27	16	0	.03	.02	.02	.03	0	.02	.02	.04	0	.03	.03	.03	0	.02	.02	.03	0	0.07
28	19	0	.03	.02	.02	.03	0	.02	.02	.08	0	.03	.03	.04	0	.03	.02	.04	0	0.27
29	17	0	.04	.07	.04	.07	0	.02	.02	.13	0	.02	.02	.08	0	.02	.02	.09	0	0.09
30	19	0	.02	.05	.05	.05	0	.03	.03	.08	0	.02	.02	.06	0	.02	.02	.05	0	0.08
31	18	0	.02	.02	.02	.02	0	.02	.02	.05	0	.03	.03	.03	0	.02	.02	.02	0	0.07
Total	536	0					0				0				0				0	
Avg																				0.08
Max			.06			.08				.23				.14				.28		0.27
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: 1/4/2024

Monthly Water & Wastewater Operations Report

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT															
IOWA DNR WATER SUPPLY															
Basic Information															
S/EP: #1															
System Name:						PWSID #: 819033		Month: December		Year: 2023					
Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)				Gallons of Liquid Chlorine used, 65%				
		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 1 (NTU)	Highest Daily Reading Sed 2 (NTU)	Highest Daily Reading Sed 3 (NTU)				Highest Daily Reading Sed 4 (NTU)	
1	17.00	1871.00	1589.00	5.00	0.64	0.06		0.80				11.8			
2	13.75	1527.00	1293.00	15.00	0.75	0.08		0.60				10.1			
3	20.25	2187.00	1881.00	14.00	0.65	0.09		1.45				14			
4	17.50	1903.00	1575.00	12.00	0.60	0.06		0.81				10			
5	17.25	1869.00	1559.00	11.00	0.54	0.06		0.73				9.8			
6	17.50	1903.00	1618.00	11.00	0.59	0.06		0.86				10.5			
7	16.50	1808.00	1528.00	15.00	0.58	0.06		0.77				10			
8	17.75	1925.00	1639.00	14.00	0.58	0.06		0.50				10			
9	13.75	1482.00	1212.00	26.00	0.74	0.06		0.51				7.4			
10	19.00	2062.00	1766.00	21.00	0.61	0.07		0.59				10.9			
11	17.00	1777.00	1491.00	13.00	0.70	0.06		0.31				10.9			
12	16.50	1830.00	1540.00	14.00	0.69	0.06		0.97				10			
13	16.75	1803.00	1527.00	14.00	0.74	0.07		0.46				10			
14	17.75	1923.00	1641.00	17.00	0.74	0.07		0.88				11.8			
15	15.00	1618.00	1353.00	15.00	0.74	0.07		0.72				10			
16	17.75	1911.00	1624.00	18.00	0.66	0.07		0.42				11			
17	17.25	1904.00	1611.00	14.00	0.68	0.07		0.41				11.5			
18	17.25	1859.00	1583.00	20.00	0.66	0.07		0.88				11.5			
19	17.00	1843.00	1555.00	21.00	0.72	0.07		0.57				9.8			
20	16.50	1773.00	1494.00	16.00	0.65	0.07		0.78				10.1			
21	19.50	1991.00	1703.00	22.00	0.68	0.07		0.95				10.1			
22	15.25	1648.00	1375.00	18.00	0.78	0.07		0.93				8.9			
23	19.00	2059.00	1765.00	17.00	0.80	0.07		2.66				11			
24	13.75	1478.00	1208.00	19.00	0.72	0.07		1.42				8			
25	17.00	1726.00	1461.00	18.00	0.71	0.07		2.51				9.5			
26	16.00	1584.00	1328.00	19.00	0.75	0.06		1.22				8.9			
27	18.25	1825.00	1547.00	21.00	0.81	0.07		0.96				10.1			
28	16.25	1697.00	1268.00	20.00	0.66	0.27		0.90				8.7			
29	20.00	2132.00	1756.00	24.00	0.83	0.09		1.14				11.8			
30	16.75	1807.00	1515.00	25.00	0.78	0.08		1.61				10			
31	15.50	1560.00	1300.00	20.00	0.88	0.07		1.84				9			
Total	526	56,285	47,305	529								230.1	0	0	0
Avg	16.98	1,816	1,526	17.06	0.70	0.08	#DIV/0!	0.97	#DIV/0!	#DIV/0!		10.2	#DIV/0!	#DIV/0!	#DIV/0!
Max	20.25	2,187	1,881	26.00	0.88	0.27	0.00	2.7	0.0	0.00		14.0	0.00	0.00	0.00
Min	13.75	1,478	1,208	5.00	0.54	0.06	0.00	0.31	0.00	0.00		7.4	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: 1/4/2024

October 2018 FORM 542-8027

**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:

Dec	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>
--

Monthly Water & Wastewater Operations Report

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: Dec-2023

Mon. Point	RAW WASTE														
	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP		PH	
Parameter	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	FAHRENHBT	STD UNITS
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	FAHRENHBT	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	Permit Duration	Permit Duration
No Discharge															
LOQ															
Day: 1	1.054	288	2531.62368											60	7.5
2	1.035														
3	1.123														
4	1.082			180	1624.2984									60	7.4
5	1.095					42.14	384.835122	42	383.5566	7.1	64.83933			60	7.6
6	1.09	301	2736.2706	158	1436.3148									60	7.5
7	1.077													62	7.4
8	1.057	276	2433.04488											62	7.5
9	0.922														
10	1.033														
11	1.051			186	1630.35324									60	7.5
12	1.032					44.1	379.563408	44	378.70272	6.5	55.94472			58	7.6
13	1.018	209	1774.43508	200	1698.024									60	7.5
14	1.056													60	7.4
15	1.065	247	2193.8787											60	7.5
16	1.048														
17	1.096														
18	1.028			258	2211.96816									58	7.4
19	1.073					43.1	385.694142	43	384.79926	7.4	66.221268			58	7.4
20	0.981	208	1701.76032	230	1881.7542									60	7.6
21	1.043	222	1931.09364											58	7.3
22	1.048													62	7.5
23	1.045														
24	1.572														
25	1.844													60	7.2
26	1.22			170	1729.716	25.48	259.253904	25	254.37	3.8	38.66424			58	7.5
27	1.223			132	1346.37624									58	7.7
28	1.217	177	1796.51106											58	7.5
29	1.22	218	2218.1064											58	7.5
30	1.184														
31	1.091														
Total	34.723	2146	19316.72436	1514	13558.80504	154.82	1409.346576	154	1401.42858	24.8	225.669558	1250		157	
Monthly Avg.	1.120096774	238.4444444	2146.302707	189.25	1694.85063	38.705	352.336644	38.5	350.357145	6.2	56.4173895	59.52380952		7.476190476	
Daily Max.	1.844	301	2736.2706	258	2211.96816	44.1	385.694142	44	384.79926	7.4	66.221268	62		7.7	
Daily Min.	0.922	177	1701.76032	132	1346.37624	25.48	259.253904	25	254.37	3.8	38.66424	58		7.2	
Max. 7/Avg.	1.309857143	294.5	2633.94714	244	2046.86118	44.1	385.694142	44	384.79926	7.4	66.221268	60.4		7.5	

Monthly Water & Wastewater Operations Report

Permit # 0819001		Monthly Operation Report																					
Facility Name: BOONE CITY OF STP		IOWA DEPARTMENT OF NATURAL RESOURCES NPDS - Operation Permit System EFFLUENT Data																					
Outfall #: 001																							
Month/Year: Dec-2023																							
Mon. Point Parameter	EFFLUENT PRIOR TO DISINFECTION										EFFLUENT AFTER DISINFECTION												
	CBOD5		TSS		NH-N		NO3-N		TOT-N		PHOS		TOX CER		TOX PIM		TEMP		DO		PH		E COLI
Units	M/G/L	LBS/DAY	M/G/L	LBS/DAY	M/G/L	LBS/DAY	LBS/MONTH	M/G/L	LBS/DAY	M/G/L	LBS/DAY	M/G/L	LBS/DAY	NO TOXICITY	NO TOXICITY	FAHRENHEIT	M/G/L	STD UNITS	PH	#/100 ML	#/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 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK					
Start Date	8/1/2023																						
End Date	7/31/2024																						
No Discharge															06 - NOT REQ / MP		06 - NOT REQ / MP		06 - NOT REQ / MP				
LOG																							
Day: 1	3	26.37108			0.1	0.879036										54	9.6	7.7					
2																							
3																							
4			6	54.14328												54	9.5	7.7					
5					0.1	0.91323		13.3	121.45959	2	18.2646					54	9.6	7.8					
6	3	27.2718	4	36.3624	0.1	0.90906										54	9.5	7.8					
7					0.1	0.898218										56	9.3	7.7					
8	3	26.44614			0.1	0.881538										56	9.2	7.8					
9																							
10																							
11			3	26.29602												54	9.6	7.6					
12					0.1	0.860688	120	16.4	141.152832	3.5	30.12408					44	9.8	7.6					
13	3	25.47036	4	33.96048	0.1	0.849012										54	9.9	7.7					
14					0.1	0.880704										54	10	7.8					
15	3	26.6463			0.1	0.88821										54	7	7.4					
16																							
17																							
18			5	42.8676												54	9.8	7.5					
19					0.1	0.894882										52	9.8	7.5					
20	3	24.54462	4	32.72616	0.1	0.818154		15.4	137.811828	4.9	43.849218					52	9.8	7.6					
21	3	26.09586			0.1	0.869862										52	9.8	7.5					
22																56	10	7.7					
23																							
24																							
25																60	9.1	7.6					
26			6	61.0488	0.1	1.01748				13.3	135.32484	3.8	38.66424			54	9.6	7.6					
27			4	40.79928	0.1	1.019982										54	9.5	7.7					
28	3	30.44934			0.1	1.014976										54	9.5	7.6					
29	3	30.5244			0.1	1.01748										54	9.8	7.6					
30																							
31																							
Total	27	243.8199	36	328.20402	1.6	14.612514	120	58.4	535.74909	14.2	130.902138					1130	199.5	160.5					
Monthly Avg.	3	27.0911	4.5	41.0255025	0.1	0.913282125	120	14.6	133.9372725	3.55	32.7255345					53.80952381	9.5	7.642857143					
Daily Max.	3	30.5244	6	61.0488	0.1	1.019982	120	16.4	141.152832	4.9	43.849218					60	10	7.8					
Daily Min.	3	24.54462	3	26.29602	0.1	0.818154	120	13.3	121.45959	2	18.2646					44	7	7.4					
Max. 7/Avg.	3	30.44934	5	50.92404	0.1	1.01748	120	16.4	141.152832	4.9	43.849218					55.6	9.7	7.4					



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

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UPGRADE PROGRAM		December 2023				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
12/1/2023	303 S Boone	Warranty				
12/1/2023	1213 Nightengale	5/5/2006				
12/4/2023	1710 Boone	Removal				
12/5/2023	2228 Boone	Warranty				
12/8/2023	415 Clinton	10/05/01				
12/11/2023	618 College	11/17/1999				
12/11/2023	516 Cedar	6/24/1999				
12/12/2023	1803 Kate Shelley H	5/3/2002				
12/12/2023	1803 Kate Shelley L	8/19/2003				
12/12/2023	210 W 5th	12/13/2006				
12/12/2023	1819 Union H	08/23/05				
12/12/2023	1819 Union L	08/23/05				
12/12/2023	421 Clinton	05/17/99				
12/13/2023	720 Aldrich	10/13/2014				
12/14/2023	307 Monona	11/21/2022				
12/14/2023	1615 Crawford	8/24/2000				
12/15/2023	8th & Harrison	Warranty				
12/15/2023	104 Cedar	11/24/1999				
12/15/2023	1323 Union	12/21/1998				
12/15/2023	1827 Union H	11/8/2007				
12/15/2023	1827 Union L	6/19/2008				
12/19/2023	926 Lincoln H	5/9/2000				
12/19/2023	926 Lincoln L	5/9/2000				
12/20/2023	Fairgrounds	Warranty				
12/21/2023	1120 Union H	6/10/2004				
12/21/2023	1120 Union L	8/10/2005				
12/26/2023	1638 Hancock H	7/19/2004				
12/26/2023	1638 Hancock L	7/19/2004				
12/26/2023	303 Aurora	12/23/2010				
12/26/2023	Logansport District	11/5/2020	Warranty			
12/27/2023	808 S Jackson H	11/8/2005				
12/27/2023	808 S Jackson L	11/8/2005				
12/27/2023	903 Southridge	11/17/2006				
12/27/2023	1919 Aldrich H	11/20/2001				
12/27/2023	1919 Aldrich L	11/20/2001				
12/28/2023	924 10th	1/30/2007				
12/28/2023	522 Cedar	5/30/2000				
Locates						
12/1 to 1/1		82				

Curb Box Repair Update for 01/09/2024 – as of 1/2/2024

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

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

16 delinquent bills totaling \$4992.14 will certify on January 12th. If left unpaid, 13 delinquent bills totaling \$2846.50 are scheduled to certify on January 26th.

Lesli Vote
Utility Billing Supervisor