

UTILITY COMMITTEE

Meeting Notice

Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: April 15, 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 March 12, 2024 Meeting.
- 3. Request to Reduce Storm Sewer Change on High Water Bill. Ryan Gray.
- 4. Review March 2024 US Water Monthly Report.
- 5. Meter Upgrade Report.
 - a. March
- 6. Stop Box Repair/Shut Off Report.
 - a. March
- 7. Other Business.
- 8. Adjourn.



UTILITY COMMITTEE

Meeting Notice

Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: March 12, 2024 **Time of Meeting:** 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.

Present: Angstrom, Moorman, and Byrd

Others present: Andrews, Robbins, Elmquist, Skare, Vote, Perry Gjersvik, JD Roberts, Representatives of Rolling Meadows Byron Rippke, Gary Eshelman, and Bill Greenley.

2. Approve Minutes from the February 13, 2024 Meeting.

Byrd moved; Moorman seconded to approve the minutes from the February 13, 2024, Utility Meeting. Ayes: all those in attendance. Nays: none.

3. Request to Use Leak Protection to Reduce Water Bill. – Rolling Meadows.

Byron Rippke, President of the Rolling Meadows Association, requested to use the Leak Protection Program to reduce their \$104,000.00 water bill by \$78,000.00 for a leak that used 9,959,880 gallons of water. Andrews advised that no alarm sounded from the Rolling Meadows' master meter but under their agreement with the City, Rolling Meadows is responsible for maintaining and monitoring the master meter for leaks, that this leak went on for twenty-nine (29) days, and that staff feels negligence could be proven.

Robbins advised that through the agreement, there is coverage to provide leak protection but that it is for the individual houses, and it states the maximum amount that can be deducted appears to be \$200.00. Robbins stated that through the agreement, all the obligation falls on Rolling Meadows that leaks do not occur.

Rippke stated he did not receive any training on the master meter other than when Andrews explained reading the meter, and that they depend on the alarms to let them know when there is a leak. Angstrom stated he thought Rolling Meadows should have been maintaining the master meter through preventative measures and it is not up to the City to maintain.

Byrd moved; Moorman seconded to approve staff to set up a payment plan with the Rolling Meadows Association for the full amount of the bill, approximately \$2,900.00 a month over thirty-six (36) months, interest free. Ayes: all those in attendance. Nays: none.

4. Request by US Water to Add Bluegill to Final Clarifiers for Midge and Water Flea Consumption. – JD Roberts.

JD Roberts, US Water, requested to add fifty (50) Bluegill fish to the final clarifiers to control midge larvae and water fleas at the Wastewater Treatment Facility. The Bluegill are \$1.00 each. Moorman moved; Byrd seconded to approve the request to add fifty (50) Bluegill to the final clarifiers to control midge larvae and water fleas at the Wastewater Treatment Facility. Ayes: all those in attendance. Nays: none.

5. Review/Approve Task Order Amendment #4 for Wastewater UV Disinfection Project.

Skare presented Task Order Amendment #4 for the Wastewater UV Disinfection Improvements Project from Strand Associates, Inc. for consultant post-construction services for the contractor's claim for differing subsurface conditions and the City's claim for liquated damages. Moorman moved; Byrd seconded to bring Task Order Amendment #4 to full Council with a recommendation of approval at the next Council meeting. Ayes: all those in attendance. Nays: none.

6. Review Final Request and Statement of Completion for the UV Project to Make Recommendation to Council March 18, 2024.

Skare presented the final pay request and Statement of Completion for the Wastewater UV Disinfection Project. Skare advised that staff added paragraph #5 to the Statement of Completion stating that nothing contained herein shall be construed or interpreted as a waiver by the City of Boone as to its claim to liquidated damages for late completion by Contractor or additional costs incurred by the City of Boone. Skare stated that this will close out the project but does not take care of the maintenance and/or warranty items. Moorman moved; Byrd seconded to bring the Statement of Completion to full Council with a recommendation of approval at the next Council meeting. Ayes: all those in attendance. Nays: none.

7. Review February 2024 US Water Monthly Report.

The Committee reviewed the monthly US Water and Wastewater Operations and Maintenance Report for February 2024.

- 8. Meter Upgrade Report.
 - a. February

Andrews reported that in February staff finished twenty-six (26) meter upgrades. Andrews stated that meters have now been delivered to the 22nd and Linn Street development project and are in the process of being installed.

- 9. Stop Box Repair/Shut Off Report.
 - a. February

Vote stated that in February, \$10,302.51 was collected during shut-offs; fifty-three (53) accounts qualified to be on the shut off list. Six (6) delinquent bills totaling \$1,371.21 were certified February 27, 2024, and if left unpaid, sixteen (16) bills totaling \$4,785.60 are scheduled to be certified on March 26, 2024. Vote also reported that there are one hundred thirty-two (132) stop boxes in need of repair, fifty-seven (57) of which have lead service lines and Andrews has ordered six (6) to be repaired.

10. Other Business.

Angstrom stated he has requested that Utility meetings be changed to the third Monday of the month beginning April 15, 2024 at 4:30 p.m. This will be discussed at the next Council meeting.

11. Adjourn.

Moorman moved; Byrd seconded to adjourn at 5:29 p.m. Ayes: all those in attendance. Nays: none.

Kim Majors

To:

Ryan Gray

Subject:

RE: 422 S Linn St Boone Water Usage

Good Morning,

I am emailing you in regards to a property I own and unfortunately the furnace stopped working and then resumed working on its own during a cold snap. We had some waterlines burst and flood the basement. The water/sewer bill was VERY high. I understand it sounds like we denied leak protection when we setup the account. However, the floor drain was plugged and we had to manually pump the water to the back yard with submergible pumps. The storm sewer portion on this bill was \$2,083.50. I am asking if you would consider reducing the storm sewer to our monthly average for the previous months.

Water account #0110430006 Reading from 12/28-1/30

I appreciate you taking the time to consider this and I am happy to provide anything else you may need.

Ryan Gray Lrg Investments (515)577-6642 March 2024

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 March 2024

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

March 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

Fi	inished Wa	ter Monthly Flows and Hard	ness
		March-2023	March-2024
Water	Units		
Average Daily Pumped	gallons	1,572,000	1,494,000
Maximum Daily Pumped	gallons	1.724,000	1,668,000
Minimum Daily Pumped	gallons	1,221,000	1,119,000
Hardness			
Hardness - Avg Raw	grains	18.8	21.2
Hardness - Avg Finish	grains	9.6	10.9
Iron mg/I			
Avg Raw	mg/L	.02	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.57	.46
Avg Finish Fl.	mg/L	.77	.77

Water Storage

During the month of March 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 March, the following maintenance tasks were completed:

- Cut, pulled and removed trees around lime pond #2 and surrounding areas
- Cut and removed trees around pump station
- Serviced water heater
- Repairs were done to rooftop dehumidifier #2
- Replaced backflow preventer on ClariCone #1

- Added PLC automation for flow pacing to liquid chlorine pump at pump station
- Serviced and made repairs to mower decks in preparation of mowing season
- Repaired CO2 pH probe feed line
- Verified calibration on and all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all three CL2 analyzers weekly
- Rebuilt chlorine cylinder feed regulator
- Cleaned chlorine injector at pump station
- Replaced rooftop dehumidifier filters

Current & Planned Projects

During the month of April, the following maintenance tasks are planned:

- Replace dehumidifier filters
- Service tractor and mower
- Continue to cut down and remove trees around lime pond, plant, and pump station as required by the Sanitary Survey report from IDNR
- Replace backflow valve on cone #2
- Service remaining chlorine regulators
- Drain, clean and service claricone #1
- Misc. yard and building maintenance.

Health & Safety

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

The subjects of the monthly safety training were:

- Plan The Work and Work The plan
- Basic CPR Saving Lives
- Working Safely in Confined Space
- Carpal Tunnel Syndrome
- Fire Extinguisher Safety

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows										
Plant Influent Plant Effluent										
Total	53.57	•	MGD							
Average per day	1.73	•	MGD							
Minimum	1.2	•	MGD							
Maximum	3.71	•	MGD							

			Wastewate	er Influent	& Efflue	nt Qua	lity	
	Influent		Effluent					
Parameter	Daily Ave MG/L	Daily Ave LBS/Day	Daily Max	Permit Daily MG/L Limit	7 Day Max Ave	Permit 7 Day Max Limit	30 Day Average	Permit 30 Day Ave
BOD ₅	165	2238	•	•	•	•	•	•
CBOD ₅	•	•	7	•	5	40	3.75	25
Suspended solids	201	3042	6.0	•	6	45	4.8	30
Nitrogen Ammonia	15.5	182	.1	16	.1	•	.1 MG/L	3.5 MG/L
Nitrate Nitrogen	•	•	147 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	10.0	>5.0	9.60	•	9.25	>5.0
рН	7.6		7.84	6.5 to 9 STD Units	•	•	7.67	6.5 to 9 STD Units

ND= No Detection

• = No limit set

Solids Inventory

During the month of March, we pressed for 6 days (199,000 gallons) and 85.91 hauled tons.

Lift Stations

Lift Station on Airport Road has problems with Pump 1 not pumping for a while. It is unable to prime or keep a prime when the pump is off.

3-7-24: Automatic Systems came and fixed the pump failures that happen when the electrical switches from normal power to generator power and vice versa. Bill put in two on-delay timer relays that are tied into the transfer switch control panel.

Maintenance Report

3-5-24 Changed clarifier skimmer blades

3-6-24: Automatic Systems came and changed out an Ethernet switch that had gone bad on the press. The switch is used for communications between the press and SCADA systems.

3-13-24: Put two 50-pound weights on the South Clarifier plows to help prevent the suction header from dragging.

3-26-24: A&E Millwright came and replaced the air valve to VLR 1

Fifty-five (55) Preventive Maintenance Work orders were Completed

Current & Planned Projects

- RAS pumps replacement-(March 2024)
- 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 Fire Extinguisher Safety (OSHA ANNUAL 1910.157) and Carpal Tunnel Syndrome

The subjects of the monthly safety training were:

- Accident Investigation: Key to Preventing Future Accidents
- Reagents in Disguise: Chemical Safety
- Be Kind to Your Body: Stretch Before Working
- Build a Construction Site Safely

Regulatory Reports

See attached documents

			SURFA	CE WAT						HLY OPE	RATION	REPORT			
					ı	OWA DN			PLY SEC	TION					
			O/ED #- 4			1	Basic	Informat	ion						
			S/EP #: 1												
SYS			one Water W				PWSID	#: 0819		MONTH: March YEAR:		2024			
	Pum	page	Operating	Fluc	ride					e Residua	-			СТ	Cl ₂
			Hours			Sou	rce/Entr	y Point	(S/EP)		Distril	oution	T		Used
D A Y	Rawin 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 Ibs.	Finished Water (mg/L)	Number of Tests Taken*	Specify Free (F) or Total (T)	Lowest Measured Residual (mg/L)	Continuo us Hours Less Than 0.3 mg/L Free or 1.5 mg/L Total	Number of Tests Taken	Lo west M easured Residual Free (mg/L)	Number With Undetected Residual	Highest Measured Residual Free (mg/L)	Ratio of CT Obtained to CT Required	Chlorine i lbs.
1	1,554	1,280	16.75	17	0.73	"C"	(F)	0.96	0	1	0.97	0	0.97	7.3	26
2	1,944	1,668	20.75	24	0.77	"C"	(F)	1.01	0	1	0.96	0	0.96	6.0	34
3	1,917	1,621	20.25	25	0.75	"C"	(F)	0.94	0	1	0.96	0	0.96	5.7	32
4	1,758	1,480	18.75	20	0.76	"C"	(F)	0.86	0	6	0.93	0	1.36	5.6	27
5	1,890	1,619	20.25	24	0.82	"C"	(F)	0.87	0	1	0.92	0	0.92	5.1	32
6	1,797	1,461	19.00	20	0.79	"C"	(F)	0.89	0	1	0.92	0	0.92	5.4	29
7	1,802	1,496	19.50	25	0.76	"C"	(F)	0.90	0	1	0.89	0	0.89	5.4	31
8	1,633	1,327	17.50	21	0.75	"C"	(F)	0.93	0	1	0.88	0	0.88	6.2	29
9	1,764	1,431	19.75	22	0.73	"C"	(F)	0.89	0	1	0.89	0	0.89	5.6	35
10	2,006	1,634	21.25	22	0.73	"C"	(F)	0.89	0	1	0.89	0	0.89	4.8	34
11	1,863	1,530	19.75	24	0.79	"C"	(F)	0.96	0	6	0.94	0	1.60	6.6	36
12	1,964	1,602	21.00	23	0.78	"C"	(F)	0.88	0	1	0.96	0	0.96	5.1	35
13	1,759	1,589	18.50	21	0.79	"C"	(F)	0.89	0	1	0.96	0	0.96	5.8	30
14	1,702	1,393	18.00	20	0.70	"C"	(F)	0.95	0	1	0.95	0	0.95	6.3	32
15	1,869	1,499	19.75	22	0.69	"C"	(F)	0.95	0	1	0.94	0	0.94	5.6	32
16	1,855	1,531	19.75	24	0.78	"C"	(F)	0.97	0	1	0.92	0	0.92	5.9	32
17	1,938	1,565	20.75	24	0.77	"C"	(F)	0.99	0	1	0.92	0	0.92	5.7	36
18	1,762	1,424	18.75	20	0.78	"C"	(F)	0.94	0	1	0.92	0	0.92	5.8	30
19	1,910	1,610	20.25	24	0.67	"C"	(F)	0.93	0	6	0.95	0	1.20	5.4	33
20	1,711	1,470	16.25	23	0.71	"C"	(F)	0.98	0	1	0.94	0	0.94	6.4	30
21	1,715	1,481	16.25	22	0.77	"C"	(F)	0.94	0	1	0.95	0	0.95	6.0	31
22	1,481	1,270	14.25	19	0.68	"C"	(F)	0.87	0	1	0.95	0	0.95	6.2	26
23	1,903	1,650	18.50	21	0.66	"C"	(F)	0.86	0	1	0.65	0	0.95	4.8	35
24	1,865	1,119	18.00	24	0.83	"C"	(F)	0.81	0	1	0.96	0	0.96	4.6	36
25	1,577	1,344	15.25	21	0.79	"C"	(F)	0.77	0	1	0.95	0	0.95	5.1	32
26	1,875	1,631	18.00	24	0.72	"C"	(F)	0.83	0	1	0.94	0	0.94	4.8	35
27	1,828	1,570	17.75	24	0.87	"C"	(F)	0.82	0	1	0.94	0	0.94	4.6	37
28	1,699	1,461	16.25	20	0.72	"C"	(F)	0.83	0	1	0.95	0	0.95	5.1	32
29	1,764	1,520	16.75	23	0.89	"C"	(F)	0.90	0	1	0.99	0	0.99	5.4	33
30	1,643	1,416	15.75	20	0.86	"C"	(F)	0.85	0	1	0.99	0	0.99	5.4	32
31	1,886	1,635	18.00	22	0.88	"C"	(F)	0.83	0	1	0.99	0	0.99	4.7	35
Total	55,634	46,327	571.25	685						46		0			999
Avg	1,795	1,494	18.41	22	0.77										32
Max 2,006 1,668 21.25 25 0.89 0 1.60												37			
Min 1,481 1,119 14.25 17 0.66 0.77 0.65 4.6 2												26			
	*If continu	ious monit	oring of chlorin	e is provid	led, enter	"C" in the s	pace prov	vided.							
I cer	tify that I	am fam	iliar with the	informati	on conta	ined in th	nis repor	t and tha	t the infor	mation is t	rue, com	plete, and	accurat	e.	
									DR	C Operator	's or Des	ignee's Si	gnature:	David	Moore
								Ce	rtificate #:	4108	Grade:	IV	Date:	4/2/	2024

			SURF	ACE W	VATEF	NINFL	UENCE	ED GR	OUND	WATE	R MON	ITHLY	OPEF	RATIO	N REP	ORT				
						IC	DWA D	NR W	ATER	SUPP	LY SE	CTION								
							Т	urbidit	y Data	Page	1 of 1									
		EP: #1								_				3.5				2024		
SYS	TEM N			ater W	orks/		PWSI	D#: (81903	3				Marc	h	'	YEAR:	2024		
	Fini	shed Wa	ater								Filter E	ffluent				1				Bow
						£1				2				3		#4			Raw Water	
A Y	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (NTU)	Conse Resul NTU A After 4 From St	hest ecutive ts >0.5 anytime 4 Hours eart Up or wash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Conse Resul NTU A	Hours art Up or	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Higl Conse Result NTU A After 4 From Stack	s >0.5 nytime Hours art Up or	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Conse Resul NTU A After 4 From St	hest ecutive its >0.5 anytime 4 Hours eart Up or wash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Turbidity (Highest Daily Reading NTU)
1	22	0	.03	.04	.04	.05	0	.03	.03	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.07
2	17	0	.02	.02	.02	.02	0	.02	.02	.03	0	.04	.04	.04	0	.02	.02	.02	0	0.07
3	21	0	.02	.02	.02	.03	0	.02	.02	.06	0	.02	.02	.05	0	.04	.04	.05	0	0.07
4	21	0	.03	.03	.04	.04	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.07
5	19	0	.03	.03	.04	.05	0	.03	.03	.05	0	.02	.02	.07	0	.02	.02	.05	0	0.07
6	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.04	.04	.04	0	.02	.02	.06	0	0.07
7	19	0	.02	.02	.02	.03	0	.02	.02	.11	0	.04	.03	.04	0	.04	.04	.05	0	0.08
8	20	0	.02	.03	.02	.04	0	.02	.02	.24	0	.02	.02	.13	0	.02	.02	.10	0	0.09
9	18	0	.03	.03	.03	.05	0	.05	.05	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.08
10	20	0	.02	.02	.02	.02	0	.04	.04	.04	0	.05	.05	.05	0	.02	.02	.03	0	0.09
11	21	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.05	0	.04	.04	.05	0	0.08
12	20	0	.02	.03	.04	.04	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
13	21	0	.03	.03	.04	.05	0	.03	.03	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.06
14	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.05	.04	.05	0	.02	.02	.02	0	0.09
15 16	18 20	0	.02	.02	.02	.03	0	.02	.02	.03	0	.03	.03	.05	0	.04	.04	.05	0	0.07
17	20	0	.02	.04	.03	.05	0	.02	.02	.05	0	.02	.02	.04	0	.02	.02	.02	0	0.08
18	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.05	.05	.05	0	.02	.02	.02	0	0.08
19	19	0	.02	.02	.02	.02	0	.02	.02	.04	0	.03	.03	.06	0	.05	.04	.05	0	0.08
20	21	0	.02	.04	.04	.04	0	.02	.02	.04	0	.02	.02	.04	0	.02	.02	.02	0	0.08
21	17	0	.03	.04	.04	.05	0	.03	.02	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.08
22	16	0	.02	.02	.02	.02	0	.02	.02	.03	0	.04	.04	.04	0	.02	.02	.02	0	0.08
23	15	0	.03	.02	.02	.03	0	.02	.02	.06	0	.02	.02	.08	0	.04	.04	.05	0	0.07
24	19	0	.02	.04	.04	.04	0	.02	.02	.04	0	.02	.02	.04	0	.02	.02	.03	0	0.07
25	19	0	.03	.04	.04	.05	0	.03	.03	.05	0	.02	.02	.03	0	.02	.02	.03	0	0.07
26	16	0	.03	.02	.02	.02	0	.02	.02	.03	0	.05	.05	.05	0	.02	.02	.03	0	0.07
27	17	0	.03	.02	.02	.03	0	.02	.02	.12	0	.03	.03	.08	0	.05	.04	.07	0	0.06
28	17	0	.03	.05	.03	.05	0	.02	.02	.06	0	.02	.02	.04	0	.03	.03	.03	0	0.06
29	17	0	.04	.03	.04	.05	0	.03	.02	.05	0	.02	.02	.03	0	.02	.02	.03	0	0.07
30	17	0	.03	.02	.02	.03	0	.02	.02	.14	0	.05	.05	.05	0	.03	.02	.08	0	0.07
31	16	0	.02	.02	.02	.03	0	.02	.02	.16	0	.02	.03	.05	0	.04	.04	.12	0	0.07
Total	582	0					0				0				0				0	
Avg																				0.07
Max			.04			.05				.24				.13				.12		0.09
	ntinuous m																			0.06
										DI	RC Ope	erator's	or De	signee	's Sigr	ature:	Da	vid Mo	ore	
										Certific	cate #:	4108	(Grade:	IV		Date:	4/2/	2024	

				SURFACE V	VATER/INFL		ROUNDWAT		Y OPERATI	ON REPORT	•			
							NR WATER							
	S/EP:	#1				B	asic Informat	ion						
tratam Na		#1				PWSID #:	040	9033		Month:	March		Year:	2024
system Na	Operating	Dum		Flui	ride	Raw	018		Turbidity	WOITH:	Maich		rear.	2024
D	Hours	Pum	page	Fiuc	riue	Turbidity	(in	dividual sedir		ein)				
а	Number of		To System in	Quantity Used in		Highest Daily	Highest Daily	Highest Daily	Highest Daily	Highest Daily	Gallons Of			
У	hours the plant operated per day.	Rawin 1,000s Gallons Per Day	1,000s Gallons Per Day	lbs. or gal. (circle one)	Finished Water (mg/L)	Reading (NTU)	Reading Sed 1 (NTU)	Reading Sed 2 (NTU)	Reading Sed 3 (NTU)	Reading Sed 4 (NTU)	Liquid Chlorine Used 15%			
1	16.75	1554.00	1280.00	17.00	0.73	0.07		1.53			10			
2	20.75	1944.00	1668.00	24.00	0.77	0.07		3.24			12			
3	20.25	1917.00	1621.00	25.00	0.75	0.07		1.11			11.8			
4	18.75	1758.00	1480.00	20.00	0.76	0.07		1.58			11.1			
5	20.25	1890.00	1619.00	24.00	0.82	0.07		1.72			12			
6	19.00	1797.00	1461.00	20.00	0.79	0.07		1.79			11.9			
7	19.50	1802.00	1496.00	25.00	0.76	0.08		0.74			12			
8	17.50	1633.00	1327.00	21.00	0.75	0.09		1.50			10.1			
9	19.75	1764.00	1431.00	22.00	0.73	0.08		0.77			10.1			
10	21.25	2006.00	1634.00	22.00	0.73	0.09		0.89			12.3			
11	19.75	1863.00	1530.00	24.00	0.79	0.08		0.86			11.3			
12	21.00	1964.00	1602.00	23.00	0.78	0.07		1.04			11.9			
13	18.50	1759.00	1589.00	21.00	0.79	0.06		1.93			9.3			
14	18.00	1702.00	1393.00	20.00	0.70	0.09		1.54			7			
15	19.75	1869.00	1499.00	22.00	0.69	0.07		1.31			9.9			
16	19.75	1855.00	1531.00	24.00	0.78	0.08		1.23			9.9			
17	20.75	1938.00	1565.00	24.00	0.77	0.07		0.63			9.9			
18 19	18.75 20.25	1762.00 1910.00	1424.00 1610.00	20.00	0.78	0.08		0.93			10.1			
20	16.25	1711.00	1470.00	23.00	0.67	0.08		1.56			9			
21	16.25	1711.00	1481.00	22.00	0.77	0.08		1.03			9.8			
22	14.25	1481.00	1270.00	19.00	0.68	0.08		0.82			8.2			
23	18.50	1903.00	1650.00	21.00	0.66	0.07		0.86			11.1			
24	18.00	1865.00	1119.00	24.00	0.83	0.07		0.79			11.1			
25	15.25	1577.00	1344.00	21.00	0.79	0.07		1.13			11.2			
26	18.00	1875.00	1631.00	24.00	0.72	0.07		0.89			12.3			
27	17.75	1828.00	1570.00	24.00	0.87	0.06		0.82			12.2			
28	16.25	1699.00	1461.00	20.00	0.72	0.06		0.61			12			
29	16.75	1764.00	1520.00	23.00	0.89	0.07		1.75			12			
30	15.75	1643.00	1416.00	20.00	0.86	0.07		0.97			11			
31	18.00	1886.00	1635.00	22.00	0.88	0.07		1.12			12			
Total	571	55,634	46,327	685							334.5	0	0	0
Avg	18.43	1,795	1,494	22.10	0.77	0.07	#DIV/0!	1.23	#DIV/0!	#DIV/0!	10.79	#DIV/0!	#DIV/0!	#DIV/0
Max	21.25	2,006	1,668	25.00	0.89	0.09	0.00	3.2	0.0	0.00	12.30	0.00	0.00	0.00
Min	14.25	1,481	1,119	17.00	0.66	0.06	0.00	0.61	0.00	0.00	7.00	0.00	0.00	0.00
ertify that I	am familiar w	vith the inform	ation contain	ed in this rep	ort and that th	e information	is true, comp	lete, and acc	urate.					
					DRC Operato	r or Designe	e's Signature:	David Moore						
							Certificate #:	4108		Grade:	IV	Date:	4/2/2024	
							Gerundate #:	7100		Grade:	IV	раце:	4/2/2024	
ctober 2018													FO	RM 542-80

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:	3 2024
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:	
oignature.	
	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 possibility of 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: 3-2024

Mon. Point							RAW WASTE						
Parameter	FLOW	BO	D5	TS	SS	TO	T-N	Т	KN	PH	os	TEMP	PH
Units	MGD	M G/L	LBS/DAY	MG/L	LB\$/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	M G/L	LBS/DAY	FAHRENHEIT	STD UNITS
Frequency	7/WEEK OR DAILY	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	1.275											55	7.6
2	1.259												
3	1.274												
4	1.259			183	1921.51098							56	7.6
5	1.246											56	7.7
6	1.268	133	1406.49096	290	3066.7848	33.7	356.381544	32	338.40384	6.4	67.680768		7.6
7	1.252											58	7.6
8	1.286		2230.84992									56	
9	1.172												
10	1.259												
11				217	2247.74676							58	7.6
12	1.257					37.8	396.271764	35	366.9183	6.6	69.190308	58	7.7
13		151	1555.2849	174	1792.1826							58	7.6
14												56	7.6
15	1.458											61	7.9
16	1.37												
17	1.4												
18	1.369			193	2203.56978							54	7.6
19	1.351					34	383.08956	31	349.28754	5	56.3367	58	7.7
20	1.319	206	2266.09476	163	1793.07498							56	7.4
21	1.317											56	7.7
22	1.523	257	3264.36774									56	7.5
23	1.496												
24	3.36												
25	3.708			287	8875.39464							54	7.5
26	3.214					17.1	458.361396	12	321.65712	3.1	83.094756	52	7.5
27	2.869	110	2632.0206	102	2440.60092							54	7.6
28	2.614											56	7.6
29	2.484	119	2465.27064									54	7.7
30													
31	2.273												
Total		1320	17906.24688	1609	24340.86546	122.6	1594.104264	110	1376.2668	21.1	276.302532		159.8
Monthly Avg.	1.728064516	165	2238.28086	201.125	3042.608183	30.65	398.526066	27.5	344.0667	5.275	69.075633	56.19047619	7.60952381
Daily Max.	3.708	257	3264.36774	290	8875.39464	37.8	458.361396	35	366.9183	6.6	83.094756	61	7.9
Daily Min.	1.172	110	1406.49096	102	1792.1826	17.1	356.381544	12	321.65712	3.1	56.3367	52	7.4
Max. 7/Avg.	2.683428571	206	2948.19417	236.5	5657.99778	37.8	458.361396	35	366.9183	6.6	83.094756	57.2	7.66

USW Utility Group March 2024 Page 12

Outfall #: 00 Month/Year: 3- Mon. Point Parameter Units	OONE CITY OF STP	LBS/DAY	TS	IOWA DEPAR	onthly Operation Rep RTMENT OF NATURAL - Operation Permit S EFFLUENT Data	. RESOURCES											
Outfall #: 00 Month/Year: 3- Mon. Point Parameter Units Frequency Start Date End Date	CBC MG/L 2 TIMES PER WEEK	LBS/DAY	TS		- Operation Permit S												
Month/Year: 3- Mon. Point Parameter Units Frequency Start Date End Date	CBO MG/L 2 TIMES PER WEEK	LBS/DAY	TS		•	,											
Month/Year: 3- Mon. Point Parameter Units Frequency Start Date End Date	CBO MG/L 2 TIMES PER WEEK	LBS/DAY	TS														
Month/Year: 3- Mon. Point Parameter Units Frequency Start Date End Date	CBO MG/L 2 TIMES PER WEEK	LBS/DAY	TS														
Mon. Point Parameter Units Frequency Start Date End Date	CBO MG/L 2 TIMES PER WEEK	LBS/DAY	TS														
Parameter Units Frequency Start Date End Date	MG/L 2 TIMES PER WEEK	LBS/DAY	TS						-								
Units Frequency 2 Start Date End Date	MG/L 2 TIMES PER WEEK	LBS/DAY	TS			EFFLUEN	T PRIOR TO DISINFE	ECTION							EFFLUENT AF	TER DISINFECTION	
Start Date End Date	2 TIMES PER WEEK			SS	N	13-N	NO3-N	TO	Γ-Ν	PH	OS	TOX CER	TOX PIM	TEMP	DO	PH	E COLI
Start Date End Date			MG/L	LBS/DAY	MG/L	LBS/DAY	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	NO TOXICITY	NO TOXICITY	FAHRENHEIT	MG/L	STD UNITS	#/100 ML
End Date	Permit Duration	2 TIMES PER WEEK	2 TIMES PER WEEK	1 EVERY MONTH	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS						
	Permit Duration																8/1/2023
No Discharge		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
												06 - NOT REQ / MP	06 - NOT REQ / MP				06 - NOT REQ / MP
LOQ																	
Day: 1					0.1	1.06335								55	8.2	7.3	i
2			-														
3																	
4			4	42.00024										54		7.4	
5_					0.1									54		7.5	
6_	3	31.72536	6	63.45072	0.1			17.6	186.122112	4.1	43.357992			52		7.4	
7					0.1	DESCRIPTION OF STREET								54		7.8	
8	3	32.17572			0.1	1.072524								52	9	7.8	,
9																	
10																	
11			5	51.7914										54		7.6	
12					0.1		147	16.3	170.879094	4.4	46.126872			54		7.7	
13	3	30.8997	4	41.1996	0.1									56		7.7	
14	3	46.01178			0.1									56		7.6	/
15					0.1	1.215972								59	9	8	4
16																	
17				45.00004													
18			4	45.66984		4.40070.4		45.0	470.00000	0.5	00 10500			52		7.6	
19	-	55,0000		44.00184	0.1			15.3	172.390302	3.5	39.43569			52		7.5 7.5	
20	5	55.0023	4	44.00184	0.1									52 52		7.5	
21	7	88.91274			0.1									52		7.9	
22	- /	00.912/4			0.1	1.2/0182								50	8.9	7.9	+
24																	+
25				185.54832										52	9.7	7.9	1
26			0	100.04032	0.1	2.680476		11.93	319.7807868	2.1	56.289996			52		7.7	
27	3	71.78238	6	143.56476	0.1			11.93	313.100/000	2.1	30.203330			52		7.8	
28	,	71.70200	- 0	140.00470	0.1									52		7.9	
29	3	62.14968			0.1	terretretretretretretretretret terretre								54		7.9	
30	3	02.14300			0.1	2.071000								J4	3.0	1.0	
31																	
Total	30	418.65966	39	617.22672	1.7	24.025038	147	61.13	849.1722948	14.1	185.21055			1120	194.3	161.2	
Monthly Avg.	3.75	52.3324575	4.875	77.15334	0.1				212.2930737	3.525				53.33333333	9.252380952	7.676190476	
Daily Max.	7	88.91274	6	185.54832	0.1				319.7807868	4.4				59		8	3
Daily Min.	3	30.8997	4	41,1996	0.1		147		170.879094	2.1	39.43569			50		7.3	3
Max. 7/Avg.	5	80.34756	6	164.55654	0.1				319.7807868	4.4				54.4		7.84	

USW Utility Group March 2024 Page 13



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

www.USWUtilityGroup.com

UPGRADE	PROGRAM	March 2024				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
3/1/2024	1114 14th	3/5/2004				
3/1/2024	528 Greene	Frozen				
3/1/2024	2028 Crawford	Pre 1999				
3/1/2024	233 S Story	2/26/1999				
3/1/2024	509 Clinton	11/17/1999				
3/1/2024	303 Webster	4/12/2000				
3/1/2024	305 Webster	4/12/2000				
3/1/2024	307 Webster	4/12/2000				
3/1/2024	309 Webster	4/12/2000				
3/1/2024	311 Webster	4/12/2000				
3/4/2024	204 Benton	5/20/1999				
3/4/2024	1418 19th H	1206/04				
3/4/2024	1418 19th L	1206/04				
3/4/2024	510 10th	4/15/2002				
3/4/2024	608 1st H	3/29/1999				
3/4/2024	608 1st L	7/6/2001				
3/5/2024	219 Park Ave	4/11/2007				
3/5/2024	322 Main	5/24/2000				
3/5/2024	1127 1st	6/25/2013				
3/6/2024	220 Ashwood H	1/11/2007				
3/6/2024	220 Ashwood L	1/11/2007				
3/11/2024	1102-1116 Maddie Ln	New Service				
3/11/2024	1118-1132 Maddie Ln	New Service				
3/11/2024	1110 Colin Dr	New Service				
3/11/2024	2201-3-5 Conner Dr	New Service				
3/11/2024	1123-1125 Colin Dr	New Service				
3/11/2024	1119-1121 Colin Dr	New Service				
3/11/2024	2301-3-5 Conner Dr	New Service				
3/11/2024	2207-09-11 Conner Dr	New Service				
3/11/2024	1103-05 Colin Dr	New Service				
3/11/2024	1107-09 Colin Dr	New Service				
3/11/2024	1115-17 Cloin Dr	New Service				
3/11/2024	1134-36-38 Maddie Ln	New Service				
3/11/2024	543 Linden Ln	1/25/1999				

3/12/2024	1403 Nebraska	8/16/1999		
3/12/2024	1710 Boone	Reinstall		
3/13/2024	1424 W Mamie	8/23/2000		
3/13/2024	1005 7th	8/12/1999		
3/13/2024	1022 13th	Pre 1999		
3/13/2024	1020 13th	Pre 1999		
3/13/2024	1708 Timberlane H	3/16/1999		
3/13/2024	1708 Timberlane L	3/16/1999		
3/14/2024	305 8th	2/22/2007		
3/14/2024	802 10th	Pre 1999		
3/14/2024	320 W Mamie	Pre 1999		
3/20/2024	105 Clinton	4/6/1999		
3/21/2024	716 Union	2/26/1999		
3/22/2024	1216 6th	5/30/2000		
3/25/2024	1522 Crawford	Reinstall		
3/27/2024	1008 12th	Pre 1999		
3/27/2024	1004 12th	Pre 1999		
3/28/2024	108 S Cedar	11/19/1998		
	Locates 3-1 to 4-1			
	294			

Curb Box Repair Update for 04/15/2024 - as of 4/8/2024

\$3,957.53 was collected during shut offs. 21 accounts qualified to be on the list.

134 stop boxes need repaired, 57 of which have lead service lines & 6 that Waylon has ordered to be repaired.

2 failed stop box repair payment plans in the amount of \$3,000.00 were taken to the courthouse as liens on March 22nd.

8 delinquent bills totaling \$2,248.72 certified on March 28th. If left unpaid, 16 delinquent bills totaling \$7,211.97 are scheduled to certify on April 30th.

Lesli Vote Utility Billing Supervisor