



**MONTHLY REPORT OF OPERATION
ACTIVATED SLUDGE TYPE
WASTEWATER TREATMENT PLANT**

State Form 10829 (R9 / 12-22)

Name of Facility City of Charlestown			Permit Number IN0020508		
Month April	Year 2023	Plant Design Flow 2.2 mgd	Telephone Number 812-786-6594		
E-mail address: Wastewaterdirector@cityofcharlestown.com			001	A	
Certified Operator: Name Timothy Crawford		Class V	Certificate Number WW013156	Expiration Date 6/30/2025	

Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Total=	Bypass At Plant Site ("x" if Occurred)	Sanitary Sewer Overflow ("x" if Occurred)	CHEMICALS USED			RAW SEWAGE								
				Precipitation - Inches 2.9			Chlorine - Lbs/day	Lbs/Day or Gal./Day	Lbs/Day or Gal./Day	Influent Flow Rate (if metered) MGD	pH	CBOD5 - mg/l	CBOD5 - lbs/day	Susp. Solids - mg/l	Susp. Solids - lbs/day	Phosphorus - mg/l	Ammonia - mg/l	
1	Sat			0.6						1.365								
2	Sun			0						1.218								
3	Mon			0						1.084	7.3	95	858.85	89	804.61	2.79	9.15	
4	Tue			0						1.102	7.5	73	670.92	94	863.92	3.21	14.9	
5	Wed			0						2.1	7.2	92	1611.3	31	542.93	2.82	15.3	
6	Thu			1						2.357	7.6	39	766.64	11	216.23	1.58	6.75	
7	Fri			0						1.501	7.4	46	575.84	23	287.92	1.45	2.25	
8	Sat			0						1.212								
9	Sun			0						0.974								
10	Mon			0						0.941	7.7	84	659.23	46	361.01	2.87	16	
11	Tue			0						0.874	7.5	116	845.54	97	707.05	3.76	15.4	
12	Wed			0						0.77	7.7	92	590.81	111	712.82	3.84	19	
13	Thu			0						0.78	7.6	104	676.54	66	429.34	5.16	11.9	
14	Fri			0						0.722	7.6	115	692.47	143	861.07	4.87	22.1	
15	Sat			0						0.709								
16	Sun			0						0.684								
17	Mon			0						0.63	7.6	175	919.49	94	493.89	4.84	27.3	
18	Tue			0						0.63	7.6	190	998.3	223	1171.7	5.41	19.2	
19	Wed			0						0.589	7.6	154	756.49	94	461.75	5.32	25	
20	Thu			0						0.606	7.6	191	965.32	143	722.73	5.91	31.4	
21	Fri			0						0.917	7.6	219	1674.9	383	2929.1	6.16	30.2	
22	Sat			0.5						0.636								
23	Sun			0						0.645								
24	Mon			0						0.577	7.7	261	1256	329	1583.2	6.02	21.8	
25	Tue			0						0.594	7.7	258	1278.1	186	921.44	6.38	34.1	
26	Wed			0						0.573	7.7	221	1056.1	106	506.55	6.56	28.8	
27	Thu			0						1.035	7.6	180	1553.7	54	466.12	6	30.3	
28	Fri			0.8						0.896	7.7	120	896.72	80	597.81	4.34	0.616	
29	Sat			0						0.656								
30	Sun			0														
Average										0.944		141.3	965.16	120.2	782.06	4.465	19.07	
Maximum				1						2.357	7.7	261	1674.9	383	2929.1	6.56	34.1	
Minimum										0.573	7.2	39	575.84	11	216.23	1.45	0.616	
# of Data				30	0	0	0	0	0	29	20	20	20	20	20	20	20	0
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 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 knowing violations.										Prepared by or under the direction of (Certified Operator):					Date (month, day, year)			
										Signature of principal executive officer or authorized agent (or attested by NetDMR subscriber agreement)					Date (month, day, year)			

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ACTIVATED SLUDGE TYPE
WASTEWATER TREATMENT PLANT**

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Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	April	2023

Day Of Month	PRIMARY EFFLUENT		AERATION						SECONDARY EFFLUENT		FINAL EFFLUENT								
	CBOD5 - mg/l	Susp. Solids - mg/l	MIXED LIQUOR				RETURN SLUDGE		CBOD5 - mg/l	Susp. Solids - mg/l	Residual Chlorine - Final	Residual Chlorine - Contact Tank	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)	Dissolved Oxygen - mg/l	Oil & Grease (mg/l)		
			Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Temperature - F	Volume - MG										Susp. Solids - mg/l	
1							2.107						3						
2							2.127												
3			66	4239	156	2.2	2.127	7556					7.5						
4			60	4176	144	1.2	2.339	5892					18.3	7.6					
5			55	3764	146	1.0	2.253	6240					7.4	7.6					
6			48	3205	150	3.3	2.239	8111					3.1	7.4					
7			51	3566	143	3.9	2.163	8893					166.4	7.4					
8							2.21						275.5						
9							2												
10			72	4955	145	2.3	2.139	7829						7.7					
11			72	4741	152	2.5	0.894	8517					2	7.6					
12			52	4070	128	2.7	2.076	23367					3	7.5					
13			69	5127	135	1.5	2.265	8400					1	7.7					
14			70	5227	134	2.4	2.286	7253					7.3	7.7					
15							2.272						5.2						
16							2.07												
17			76	5348	142	2.6	2.064	7878						7.8					
18			79	5597	141	3.6	2.211	7108					1	7.8					
19			81	5559	146	3.5	1.954	7422					2	7.8					
20			81	5974	136	3.0	2.14	7182					1	7.8					
21			80	5515	145	0.2	2.348	6805					1	7.8					
22							2.067						1						
23							2.02												
24			83	5738	145	3.1	2.088	8257						7.9					
25			78	5625	139	3.4	2.134	7260					2	7.9					
26			84	5750	146	3.7	2.137	8167					1	7.8					
27			81	5866	138	3.8	2.066	8443					1	7.9					
28			70	5052	139	3.8	2.23	10306					1	7.8					
29							1.902						76.3						
30																			
Avg.			70.4	4955	142.4	2.687	2.101	8544					4						
Max.			84	5974	155.7	3.86	2.348	23367					275.5	7.9					
Min.			48	3205	127.8	0.15	0.894	5892					1	7.4					
Daily Max													166						
# of Days above 235													1						
Data	0	0	20	20	20	20	0	29	20	0	0	0	0	0	0	21	20	0	0

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

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Name of Facility City of Charlestown	Permit Number IN0020508	For Month Of: April	Year 2023
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Day Of Month	Day of Week	FINAL EFFLUENT															
		Flow		BOD				Total Suspended Solids				Ammonia				Phosphorus	
		Effluent Flow Rate (MGD)	Effluent Flow Weekly Average	CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs/day	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs/day	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs/day	Ammonia - lbs/day Weekly Average	Phosphorus - mg/l	Phosphorus - lbs/day
1	Sat	1.358															
2	Sun	1.152															
3	Mon	0.985		2		16.44		4		32.88		0.023		0.189		0.495 4.069	
4	Tue	1.031		10		86.04		1		8.604		0.329		2.831		0.472 4.061	
5	Wed	1.993		1		16.63		1		16.63		0.911		15.15		0.502 8.349	
6	Thu	2.26		1		18.86		1		18.86		1.9		35.83		0.556 10.49	
7	Fri	1.456		2		24.3		2		24.3		0.656		7.971		0.48 5.832	
8	Sat	1.159	1.4337		3.2		32.45		1.8		20.25		0.764		12.395		
9	Sun	0.927															
10	Mon	0.886		1		7.394		3		22.18		0.031		0.229		0.463 3.423	
11	Tue	0.814		1		6.793		1		6.793		0.038		0.258		0.401 2.724	
12	Wed	0.709		2		11.83		2		11.83		0.051		0.302		0.454 2.686	
13	Thu	0.73		2		12.18		5		30.46		0.084		0.512		0.576 3.509	
14	Fri	0.676		2		11.28		5		28.21		0.286		1.613		0.588 3.317	
15	Sat	0.673	0.7736		1.6		9.897		3.2		19.89		0.098		0.5828		
16	Sun	0.633															
17	Mon	0.598		2		9.981		5		24.95		0.719		3.588		0.638 3.184	
18	Tue	0.584		2		9.747		2		9.747		0.087		0.424		0.619 3.017	
19	Wed	0.536		2		8.946		3		13.42		0.015		0.067		0.493 2.205	
20	Thu	0.544		2		9.079		2		9.079		0.019		0.086		0.541 2.456	
21	Fri	0.877		2		14.64		2		14.64		0.015		0.11		0.667 4.881	
22	Sat	0.595	0.6239		2		10.48		2.8		14.37		0.171		0.855		
23	Sun	0.62															
24	Mon	0.558		2		9.313		2		9.313		0.016		0.075		0.854 3.977	
25	Tue	0.538		2		8.979		2		8.979		0.015		0.067		0.775 3.479	
26	Wed	0.566		1		4.723		2		9.447		0.015		0.071		0.731 3.453	
27	Thu	1.033		2		17.24		2		17.24		0.015		0.129		0.774 6.672	
28	Fri	0.825		1		6.885		4		27.54		0.026		0.179		0.984 6.774	
29	Sat	0.614	0.6791		1.6		9.428		2.4		14.5		0.017		0.1042		
30	Sun																
Avg		0.8941		2.1		15.56		2.6		17.25		0.263		3.484		0.603 4.428	
Max		2.26	1.4337	10	3.2	86.04	32.45	5	3.2	32.88	20.25	1.9	0.764	35.83	12.395	0.984 10.49	
Min		0.536	0.6239	1	1.6	4.723	9.428	1	1.8	6.793	14.37	0.015	0.017	0.067	0.1042	0.401 2.205	
Data		29	4	20	4	20	4	20	4	20	4	20	4	20	4	20	

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 25.93
Primary Treatment	NA	NA			Percent Capacity (actual flow/design) 41%
Secondary Treatment	NA	NA			
Tertiary Treatment	NA	NA			
Overall Treatment	98.5	97.9	98.6	86.5	
Phosphorus limit would be 80 % removal. (compliance achieved)					

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Name of Facility	Permit Number	For Month Of:	Year
City of Charleston	IN0020508	April	2023

Day Of Month	SLUDGE TO DIGESTER		DIGESTER OPERATION											
	Primary Sludge Gal. x 1000	Waste Act. Sludge Gal. x 1000	Anaerobic Only			Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000	0	
			pH	Gas Production Cubic Ft. x 1000	Temperature - F									
1		0												
2		0												
3		21												
4		17												
5		20												
6		23												
7		22												
8		0												
9		0												
10		19												
11		20												
12		17												
13		18												
14		18												
15		0												
16		0												
17		18												
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19		21												
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21		21												
22		0												
23		0												
24		23												
25		23												
26		22												
27		22												
28		23												
29		0												
30		0												
Avg.		13.6												
Max.		23												
Min.		0												
Data	0	30	0	0	0	0	0	0	0	0	0	0	0	0

Once completed, this form should be converted to a pdf document, named appropriately & attached to the corresponding netDMR for submittal

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WASTEWATER TREATMENT PLANT**

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Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	April	2023

Substitute for State Form 30530

Day Of Month	Final Effluent																					
	Chloride		Total Nitrogen																			
	Chloride - mg/l	Chloride - lbs/day	Total Nitrogen- mg/l	Total Nitrogen- lbs/day																		
1																						
2																						
3			2.54	20.87836																		
4																						
5																						
6																						
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30																						
Avg			2.54	20.87836																		
Max			2.54	20.87836																		
Min			2.54	20.87836																		
Data	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

