



**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 February	Year 2023	Plant Design Flow 2.2 mgd	Telephone Number 812-786-6594		
E-mail address: Wastewaterdirector@cityofcharlestown.co					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= 2.3 Precipitation - Inches	Bypass At Plant Site ("x" if Occurred)	Sanitary Sewer Overflow ("x" if Occurred)	CHEMICALS USED			RAW SEWAGE							
							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	Wed			0					0.86	7.7	90	645.52	114	817.65	3.36	12.6	
2	Thu			0					0.737	7.5	120	737.59	111	682.27	4.31	15.6	
3	Fri			0					0.819	7.7							
4	Sat			0					0.701								
5	Sun			0					0.736		155	951.43	186	1141.7	4.7	20.5	
6	Mon			0					0.578	7.7	154	742.36	191	920.72	4.87	24.6	
7	Tue			0.1					0.699	7.7	141	821.98	517	3013.9	5.12	20.9	
8	Wed			0.1					0.746	7.5	153	951.91	189	1175.9	4.95	20.6	
9	Thu			0					0.854	7.6	105	747.85	131	933.03	4.24	16.8	
10	Fri			0					0.704	7.5							
11	Sat			0					0.714								
12	Sun			0					0.639		201	1071.2	117	623.52	4.75	19.3	
13	Mon			0					0.622	7.9	171	887.06	146	757.37	5.54	13	
14	Tue			0					0.664	7.8	179	991.26	80	443.02	5.58	26.3	
15	Wed			1.2					0.873	7.6	129	939.23	171	1245	5.54	16.6	
16	Thu			0.5					0.922	7.3	50	384.47	29	222.99	1.47	4.18	
17	Fri			0					2.201	7.6							
18	Sat			0					1.548								
19	Sun			0					1.21		82	827.49	49	494.48	2.49	13.5	
20	Mon			0					0.879	7.7	115	843.05	126	923.69	4.57	16.3	
21	Tue			0					0.835	7.8	86	598.9	34	236.77	2.94	17.8	
22	Wed			0.3					0.897	7.7	79	591	137	1024.9	3.75	16	
23	Thu			0					0.901	7.4	114	856.63	137	1029.5	3.74	9.15	
24	Fri			0					0.815	7.5							
25	Sat			0					0.845								
26	Sun			0					0.674		153	860.04	97	545.25	4.33	21.9	
27	Mon			0.1					0.943	7.3	127	998.81	83	652.76	4.42	19.5	
28	Tue			0					0.793	7.6	145	958.97	106	701.04	4.62	21.8	
Average									0.8718		127.5	820.34	137.6	879.27	4.265	17.35	
Maximum				1.2					2.201	7.9	201	1071.2	517	3013.9	5.58	26.3	
Minimum									0.578	7.3	50	384.47	29	222.99	1.47	4.18	
# of Data				28	0	0	0	0	0	0	0	0	0	0	0	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
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Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	February	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									
1			79	5597	141	6.2		2.115	7842					1	7.8		
2			84	5469	154	6.0		1.959	7422					1	7.8		
3			76	5697	133	6.8		2.194	6700					1	7.8		
4								2.092									
5								2.071									
6			83	5460	152	5.3		1.858	7882					3	7.7		
7			83	5050	164	3.6		1.907	7822					3	7.5		
8			79	4996	158	1.3		1.99	6449					1	7.7		
9			80	5243	153	1.8		2.076	7433					9.8	7.7		
10			79	6657	119	4.5		2.213	6681					1	7.6		
11								2.216									
12								1.921									
13			83	5246	158	3.7		2.105	7087					2	7.6		
14			82	5368	153	3.4		1.987	7368					3	7.6		
15			80	5454	147	2.8		2.067	7841					1	7.7		
16			60	3924	153	2.2		2.102	7596					37.3	7.6		
17			47	3803	124	2.8		2.068	7895					3	7.6		
18								2.058									
19								2.306									
20			72	4775	151	2.4		1.984	8510					1	7.6		
21			63	4957	127	3.1		2.122	7934					1	7.7		
22			60	4973	121	2.4		2.197	6962					1	7.6		
23			48	3994	120	1.3		1.881	5365					1	7.7		
24			50	4088	122	5.7		2.138	7723					1	7.5		
25								2.249									
26								1.874									
27			69	5093	135	1.5		2.204	7290					4.1	7.7		
28			70	4921	142	2.5		2.149	6761					2	7.7		
Avg.			71.35	5038	141.3	3.456		2.075	7328					2			
Max.			84	6657	164.4	6.77		2.306	8510					37.3	7.8		
Min.			47	3803	118.7	1.25		1.858	5365					1	7.5		
Daily Max														4			
# of Days above 235														2			
Data	0	0	20	20	20	20	0	28	20	0	0	0	0	20	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	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	February	2023

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	Wed	0.838		1		6.993		2		13.99		0.015		0.105		1	6.993
2	Thu	0.714		1		5.958		5		29.79		0.015		0.089		1.09	6.495
3	Fri	0.706															
4	Sat	0.69	0.8144		1		7.185		2.6		17.91		0.015		0.1078		
5	Sun	0.721		1		6.017		3		18.05		0.015		0.09		0.828	4.982
6	Mon	0.618		1		5.157		2		10.31		0.015		0.077		0.73	3.765
7	Tue	0.653		1		5.449		2		10.9		0.047		0.256		0.71	3.869
8	Wed	0.732		1		6.109		1		6.109		1.13		6.903		0.811	4.954
9	Thu	0.832		1		6.943		3		20.83		0.085		0.59		0.815	5.659
10	Fri	0.713															
11	Sat	0.724	0.7133		1		5.935		2.2		13.24		0.258		1.5833		
12	Sun	0.642		1		5.357		2		10.71		0.015		0.08		0.856	4.586
13	Mon	0.644		1		5.374		2		10.75		0.015		0.081		0.944	5.073
14	Tue	0.595		1		4.965		2		9.931		0.015		0.074		0.992	4.926
15	Wed	0.834		2		13.92		1		6.96		0.017		0.118		1.04	7.238
16	Thu	2.676		1		22.33		3		66.99		0.375		8.374		1.09	24.34
17	Fri	2.16															
18	Sat	1.585	1.3051		1.2		10.39		2		21.07		0.087		1.7456		
19	Sun	1.197		1		9.989		10		99.89		1.12		11.19		0.876	8.75
20	Mon	0.91		1		7.594		2		15.19		0.015		0.114		0.525	3.987
21	Tue	0.84		1		7.01		1		7.01		0.015		0.105		0.461	3.232
22	Wed	0.924		1		7.711		3		23.13		0.015		0.116		0.572	4.411
23	Thu	0.82		2		13.69		1		6.843		0.427		2.922		0.638	4.366
24	Fri	0.833															
25	Sat	0.84	0.9091		1.2		9.198		3.4		30.41		0.318		2.8889		
26	Sun	0.705		1		5.883		1		5.883		0.572		3.365		0.76	4.471
27	Mon	0.941		1		7.853		2		15.71		0.26		2.042		0.781	6.133
28	Tue	0.774		2		12.92		3		19.38		0.043		0.278		0.869	5.613
Avg		0.9236		1.2		8.361		2.6		20.42		0.211		1.848		0.819	6.192
Max		2.676	1.3051	2	1.2	22.33	10.39	10	3.4	99.89	30.41	1.13	0.318	11.19	2.8889	1.09	24.34
Min		0.595	0.7133	1	1	4.965	5.935	1	2	5.883	13.24	0.015	0.015	0.074	0.1078	0.461	3.232
Data		28	4	20	4	20	4	20	4	20	4	20	4	20	4	20	20

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
Percent Removal	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 25.861
Primary Treatment	NA	NA			
Secondary Treatment	NA	NA			
Tertiary Treatment	NA	NA			Percent Capacity
Overall Treatment	99.1	98.1	98.8	80.8	(actual flow/design) 42%
Phosphorus limit would be 80 % removal. (compliance achieved)					

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Name of Facility	Permit Number	For Month Of:	Year
City of Charlestown	IN0020508	February	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		19												
2		19												
3		19												
4		0												
5		0												
6		20												
7		18												
8		20												
9		24												
10		23												
11		0												
12		0												
13		24												
14		57												
15		23												
16		21												
17		12												
18		0												
19		0												
20		18												
21		19												
22		20												
23		20												
24		19												
25		0												
26		0												
27		18												
28		17												
Avg.		15.36												
Max.		57												
Min.		0												
Data	0	28	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

