

DISCHARGE MONITORING REPORT (DMR) - DAILY

Facility Name: Hartford WWTP
Permittee Name: City of Hartford

Permit Number: MI0023094 v6.0
DMR Period: 5/1/2023 - 5/31/2023
DMR Version: 1

I **Limit Set Name:** 001A -
Set: 1 of 4

Parameter	Flow	Total Suspended Solids	Total Suspended Solids	Total Suspended Solids	Total Suspended Solids	Carbonaceous Biochemical Oxygen Demand (CBOD5)	Carbonaceous Biochemical Oxygen Demand (CBOD5)
Mon. Loc.	Final Effluent (1)	Prior to Disinfection (B)	Prior to Disinfection (B)	Conventional Daily	Conventional Daily	Prior to Disinfection (B)	Prior to Disinfection (B)
Limit	(Report) MGD	45 mg/L	130 lbs/day	(Report) mg/L	(Report) lbs/day	40 mg/L	120 lbs/day
Stat. Base	Maximum Daily	Maximum 7-Day Average	Maximum 7-Day Average	Maximum Daily	Maximum Daily	Maximum 7-Day Average	Maximum 7-Day Average
5/1/2023	0.562			18	84.36744		
5/2/2023	0.432			17	61.24896		
5/3/2023	0.302			15	37.7802		
5/4/2023	0.422			18	63.35064		
5/5/2023	0.441						
5/6/2023	0.516						
5/7/2023	0.338	18	61.752696	22	62.01624	10.38	36.1962672
5/8/2023	0.418	18.4	58.823688	20	69.7224	9.54	30.3616032
5/9/2023	0.387	18.2	56.902152	16	51.64128	9.88	30.7158864
5/10/2023	0.385	18.8	60.905352	18	57.7962	10.06	32.5675332
5/11/2023	0.381	18.6	59.03886	17	54.01818	9.48	30.0338412
5/12/2023	0.395	18.6	59.03886			9.48	30.0338412
5/13/2023	0.488	18.6	59.03886			9.48	30.0338412
5/14/2023	0.29	18.4	56.793732	21	50.7906	9.45	29.1126048
5/15/2023	0.367	17.8	53.255904	17	52.03326	9.57	28.8078612
5/16/2023	0.353	17.8	52.348512	16	47.10432	9.63	28.3266432
5/17/2023	0.35	18.4	53.049072	21	61.299	9.19	26.4526452
5/18/2023	0.356	18.6	52.93398	18	53.44272	10.21	29.180826
5/19/2023	0.336	18.6	52.93398			10.21	29.180826
5/20/2023	0.417	18.6	52.93398			10.21	29.180826
5/21/2023	0.252	19	52.443588	23	48.33864	10.6	29.3381184

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				2693625457				
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

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5/22/2023	0.318	19.8	53.17584	21	55.69452	11.2	30.2346684
5/23/2023	0.308	20.8	54.5436	21	53.94312	10.38	27.235104
5/24/2023	0.292	20.2	51.050808	18	43.83504	10.34	26.3734152
5/25/2023	0.285	20	48.443724	17	40.4073	10.2	24.5839848
5/26/2023	0.367	20	48.443724			10.2	24.5839848
5/27/2023	0.26	20	48.443724			10.2	24.5839848
5/28/2023	0.258	19	46.522188	18	38.73096	9.76	23.7613272
5/29/2023	0.263	18.4	43.279596	18	39.48156	10.52	24.3733164
5/30/2023	0.284	17.2	39.596652	15	35.5284	11.2	25.6716876
5/31/2023	0.289	16.6	38.060424	15	36.1539	12.04	27.6577752

Set: 2 of 4

Parameter	Carbonaceous Biochemical Oxygen Demand (CBOD5)	Carbonaceous Biochemical Oxygen Demand (CBOD5)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Total Mercury	Total Mercury
Mon. Loc.	Conventional Daily	Conventional Daily	Prior to Disinfection (B)	Prior to Disinfection (B)	Final Effluent (1)	Final Effluent (1)	Final Effluent (1)
Limit	(Report) mg/L	(Report) lbs/day	(Report) mg/L	(Report) lbs/day	38 ug/L	(Report) ng/L	(Report) lbs/day
Stat. Base	Maximum Daily	Maximum Daily	Maximum Daily	Maximum Daily	Maximum Daily	Maximum Daily	Maximum Daily
5/1/2023	12.1	56.713668	0.62	2.9059896	10		
5/2/2023	9.9	35.668512	0.78	2.8102464	20		
5/3/2023	9.2	23.171856	0.836	2.10561648	10		
5/4/2023	10.1	35.546748	0.908	3.19568784	30		
5/5/2023					10		
5/6/2023							
5/7/2023	10.6	29.880552	0.91	2.5652172			
5/8/2023	7.9	27.540348	0.913	3.18282756	10		
5/9/2023	11.6	37.439928	0.85	2.743443	20		
5/10/2023	10.1	32.43009	0.73	2.343957	10		
5/11/2023	7.2	22.878288	0.933	2.96464482	40		

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5/12/2023					10		
5/13/2023							
5/14/2023	10.45	25.27437	0.753	1.8212058			
5/15/2023	8.5	26.01663	0.594	1.81810332	10		
5/16/2023	11.9	35.033838	0.798	2.34932796	10		
5/17/2023	7.9	23.0601	0.986	2.878134	30		
5/18/2023	12.3	36.519192	0.871	2.58603384	10		
5/19/2023					10		
5/20/2023							
5/21/2023	12.4	26.060832	0.42	0.8827056			
5/22/2023	11.5	30.49938	0.583	1.54618596	20		
5/23/2023	7.8	20.036016	0.512	1.31518464	10		
5/24/2023	7.7	18.751656	0.606	1.47577968	10		
5/25/2023	11.6	27.57204	0.429	1.0196901	20		
5/26/2023					10		
5/27/2023							
5/28/2023	10.2	21.947544	1.03	2.2162716			
5/29/2023	15.3	33.559326	0.996	2.18464632			
5/30/2023	11.2	26.527872	1.1	2.605416			
5/31/2023	11.9	28.682094	1.3	3.133338			

Set: 3 of 4

Parameter	Total Mercury - uncorrected	Total Mercury - field duplicate	Total Mercury - field blank	Total Mercury - laboratory method blank	Fecal Coliform	Fecal Coliform	CBOD5 Minimum % Removal
Mon. Loc.	Mercury QA-Effluent	Mercury QA-Effluent	Mercury QA-Effluent	Mercury QA-Effluent	Final Effluent (1)	Fecal Daily	Percent Removal (K)
Limit	(Report) ng/L	(Report) ng/L	(Report) ng/L	(Report) ng/L	400 #/100mL	(Report) #/100mL	(Report) %
Stat. Base	Maximum Daily	Maximum Daily	Maximum Daily	Maximum Daily	Max 7-Day Geometric Mean	Maximum Daily	Minimum Daily % Removal
5/1/2023						62	0.906923077
5/2/2023						52	0.9208

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Date	Parameter	Value	Unit	Limit	Compliance
5/3/2023					32
5/4/2023					41
5/5/2023					25
5/6/2023					
5/7/2023					40.25814645
5/8/2023					37.58945013
5/9/2023					35.48773042
5/10/2023					32.30384583
5/11/2023					31.47443608
5/12/2023					34.40193551
5/13/2023					34.40193551
5/14/2023					34.40193551
5/15/2023					32.27916841
5/16/2023					32.91570091
5/17/2023					35.20697522
5/18/2023					38.03850049
5/19/2023					32.21812419
5/20/2023					32.21812419
5/21/2023					32.21812419
5/22/2023					34.33687685
5/23/2023					32.16173273
5/24/2023					34.3653486
5/25/2023					31.44570697
5/26/2023					34.99058299
5/27/2023					34.99058299
5/28/2023					34.99058299
5/29/2023					37.35309653
5/30/2023					44.92345935
5/31/2023					52.37404629

Set: 4 of 4

Parameter	Total Suspended	pH	pH	Dissolved Oxygen

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	Solids Minimum % Removal					
Mon. Loc.	Percent Removal (K)	Final Effluent (1)	Final Effluent (1)	Final Effluent (1)		
Limit	(Report) %	6.5 SU	9.0 SU	3.0 mg/L		
Stat. Base	Minimum Daily % Removal	Minimum Daily	Maximum Daily	Minimum Daily		
5/1/2023	0.88	7.3	7.3	8.7		
5/2/2023	0.897590361	7.3	7.3	8.3		
5/3/2023	0.791666667	7.2	7.2	8.5		
5/4/2023	0.918918919	7.3	7.3	8.4		
5/5/2023		7.2	7.2	8.1		
5/6/2023						
5/7/2023	0.88172043					
5/8/2023	0.892473118	7.2	7.2	8.1		
5/9/2023	0.913043478	7.1	7.1	8.1		
5/10/2023	0.901098901	7.1	7.1	8.1		
5/11/2023	0.895061728	7	7	7.8		
5/12/2023		7.2	7.2	7.6		
5/13/2023						
5/14/2023	0.87037037					
5/15/2023	0.883561644	7.1	7.1	7.4		
5/16/2023	0.9	7	7	7.3		
5/17/2023	0.883333333	7.1	7.1	7.5		
5/18/2023	0.890243902	7.1	7.1	7.5		
5/19/2023		7.1	7.1	7		
5/20/2023						
5/21/2023	0.864705882					
5/22/2023	0.861842105	7.2	7.2	7.3		
5/23/2023	0.827868852	7.2	7.2	7.3		
5/24/2023	0.876712329	7.3	7.3	7.5		
5/25/2023	0.881944444	7.2	7.2	7.1		
5/26/2023		7.2	7.2	6.7		
5/27/2023						
5/28/2023	0.890243902					

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5/29/2023	0.875	7.1	7.1	6.9		
5/30/2023	0.898648649	7.2	7.2	6.8		
5/31/2023	0.902597403	7.1	7.1	7		

DMR Instructions:

DMR Comments: (none)

- **Set 2 DMR Value Comments:**
- Date: 5/11/2023 12:00:00 AM, Column 5 Comment: Our flow equalization tank is nearly finished. When the flow evens out it will be much easier to get the dose right every day.

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DMR Version: 1

Limit Set: 001A

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow (50050) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	0.36	0.562	MGD	*****	*****	*****	*****		Daily	Report Total Daily Flow
	PERMIT REQUIREMENT	REPORT Maximum Monthly Average	REPORT Maximum Daily		*****	*****	*****			Daily	Report Total Daily Flow
Total Suspended Solids (00530) Prior to Disinfection (B) Lab ID:	SAMPLE MEASUREMENT	52.1	52.6	lbs/day	*****	18.3	20.8	mg/L		5X Weekly	24-Hr Composite
	PERMIT REQUIREMENT	88 Maximum Monthly Average	130 Maximum 7-Day Average		*****	30 Maximum Monthly Average	45 Maximum 7-Day Average			5X Weekly	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082) Prior to Disinfection (B) Lab ID:	SAMPLE MEASUREMENT	29.6	36.2	lbs/day	*****	10.4	12.0	mg/L		5X Weekly	24-Hr Composite
	PERMIT REQUIREMENT	73 Maximum Monthly Average	120 Maximum 7-Day Average		*****	25 Maximum Monthly Average	40 Maximum 7-Day Average			5X Weekly	24-Hr Composite
Total Phosphorus (as P) (00665) Prior to Disinfection (B) Lab ID:	SAMPLE MEASUREMENT	2.3	3.2	lbs/day	*****	0.803	1.3	mg/L		5X Weekly	24-Hr Composite
	PERMIT REQUIREMENT	2.9 Maximum Monthly Average	REPORT Maximum Daily		*****	1.0 Maximum Monthly Average	REPORT Maximum Daily			5X Weekly	24-Hr Composite

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Total Residual Chlorine (50060) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	40	ug/L		5X Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		*****	*****	38 Maximum Daily			5X Weekly	Grab
Total Mercury (71900) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	*G	*G	lbs/day	*****	*G	*G	ng/L		Quarterly	Calculation
	PERMIT REQUIREMENT	REPORT Maximum Monthly Average	REPORT Maximum Daily		*****	REPORT Maximum Monthly Average	REPORT Maximum Daily			Quarterly	Calculation
Total Mercury (71900) Hg Calculation (X) Lab ID:	SAMPLE MEASUREMENT	*G	*****	lbs/day	*****	*G	*****	ng/L		Quarterly	Calculation
	PERMIT REQUIREMENT	0.000012 12-Month Rolling Average	*****		*****	4.0 12-Month Rolling Average	*****			Quarterly	Calculation
Fecal Coliform (74055) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	*****	*****	*****	*****	38.9	52.4	#/100mL		5X Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		*****	200 Max Monthly Geometric Mean	400 Max 7-Day Geometric Mean			5X Weekly	Grab
CBOD5 Minimum % Removal (80091) Percent Removal (K) Lab ID:	SAMPLE MEASUREMENT	*****	*****	*****	96.1	*****	90.3	%		Monthly	Calculation
	PERMIT REQUIREMENT	*****	*****		85 Minimum Monthly % Removal	*****	REPORT Minimum Daily % Removal			Monthly	Calculation
Total Suspended Solids Minimum % Removal	SAMPLE MEASUREMENT	*****	*****	*****	91.9	*****	79.2	%		Monthly	Calculation

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
(81011) Percent Removal (K) Lab ID:	PERMIT REQUIREMENT	*****	*****		85 Minimum Monthly % Removal	*****	REPORT Minimum Daily % Removal			Monthly	Calculat ion
pH (00400) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	*****	*****	*****	7.0	*****	7.3	SU		5X Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		6.5 Minimum Daily	*****	9.0 Maximum Daily			5X Weekly	Grab
Dissolved Oxygen (00300) Final Effluent (1) Lab ID:	SAMPLE MEASUREMENT	*****	*****	*****	6.7	*****	*****	mg/L		5X Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		3.0 Minimum Daily	*****	*****			5X Weekly	Grab

DMR Instructions:

DMR Comments: (none)

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Submission Identifier: DMR-MI0023094-20230531-1

Submission Signature Hash: /7eWaSkDwajdRkWKiAY4p4FvgOWgUBQqXYeCBmoTZ1M=

Submitter Name: Andrew Warner

Submitter Email: warnerwastewater@gmail.com

Submitted Date/Time: 6/16/2023 6:40:07 AM