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Influent Flow and Loading

Influent No. Influent Monthly x Influent Monthly x 8.34 = Influent Monthly										
701		e Flow, MGD	^	Average BOD		^	0.54	_	Average BOD	
, 01	,			Concentration		J/L				Loading, lbs/day
January	9	4.8387	х	224			х	8.34	=	177,225
February	8	5.2759	x 231 x 8.34		=	164,067				
March	11	16.4194	х	217			х	8.34	=	210,881
April	9	9.8333	х	205			Х	8.34	=	170,824
Мау	15	57.2258	х	158			Х	8.34	=	207,814
June	10)2.7333	х	180			х	8.34	=	153,909
July	13	33.7742	х	164			Х	8.34	=	182,971
August	10	07.9032	х	216			х	8.34	=	194,526
September	8	3.3000	х	270		x 8.34 =		=	187,575	
October	7	5.5806	х	293	293 x 8.34 =		=	184,833		
November	8	1.6000	х	272		x 8.34 =		=	185,335	
	er 89.3226 x 240 x			8.34	Ш	178,668				
December	8	9.3226	х	240			Х	0.54	_	178,008
. Maximum M	lonthly D	esign Flow ar	nd De	esign BOD Loadi or your facility.	ng		x	0.34		178,008
. Maximum M 2.1 Verify the	lonthly D	esign Flow ar	nd De ng fe	esign BOD Loadi	ng x	I	x %		=	% of Design
. Maximum M 2.1 Verify the	lonthly D e design f Design	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility.	-			, 0		·
. Maximum M 2.1 Verify the	lonthly D e design f Design	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor	x		%	ю́ О	=	% of Design
. Maximum M 2.1 Verify the	Ionthly D e design f Design esign Flo	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor	x x		%	6 0 10	=	% of Design 144
. Maximum M 2.1 Verify the Max Month D	Ionthly D e design f Design esign Flo	Design Flow ar flow and loadi	nd De ng fe	esign BOD Loadi or your facility. esign Factor 160	x x x		% 9 10	5 0 00 0	=	% of Design 144 160
. Maximum M 2.1 Verify the Max Month D Design BOD,	lonthly D e design f Design esign Flo Ibs/day	Design Flow ar flow and loadi w, MGD	ng fo	esign BOD Loadi or your facility. esign Factor 160 388000	x x x x x x x	90%	9 9 10 9	6 0 00 0 0	= = = =	% of Design 144 160 349200
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	fonthly D e design f Design esign Flo Ibs/day e number	Design Flow ar flow and loadi w, MGD	ng fe	esign BOD Loadi or your facility. esign Factor 160 388000	x x x x ded		9 9 10 9 10	6 0 00 0 0	= = = = of de	% of Design 144 160 349200 388000
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	1onthly D e design f Design esign Flo Ibs/day e number Months of	Design Flow ar flow and loadi w, MGD of times the Number of tin flow was grea	flow	esign BOD Loadi or your facility. esign Factor 160 388000 and BOD excee Number of time flow was greate	x x x x x ded	Nun BOD	9 9 10 9 10 5 or	6 0 00 00 100% c • of time s greate	= = = of de	% of Design 144 160 349200 388000 esign, points earned, Number of times BOD was greater
. Maximum M 2.1 Verify the Max Month D Design BOD, 2.2 Verify the	Ionthly D design f Design esign Flo lbs/day e number Months	Design Flow ar flow and loadi w, MGD of times the Number of tin flow was grea	flow	esign BOD Loadi or your facility. esign Factor 160 388000 and BOD excee Number of time	x x x x x ded	Nun BOD	9 9 10 9 10 5 or	6 0 00 00 100% c	= = = of de	% of Design 144 160 349200 388000 esign, points earned, Number of times

	Influent	than 90% of	than 100% of	than 90% of design	than 100% of design
January	1	0	0	0	0
February	1	0	0	0	0
March	1	0	0	0	0
April	1	0	0	0	0
Мау	1	1	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	0	0
Points per ea	h	2	1	3	2
Exceedances	;	1	0	0	0
Points		2	0	0	0
Total Numb	er of Po	oints			2

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 3. Flow Meter 3.1 Was the influent flow meter calibrated in the last y Yes Enter last calibration date (MM/DE 2020-11-24 No 	
If No, please explain: Jones Island influent flow meters were calibrated wit meter: 2/26/2020, 5/13/2020 Low Level influent meter: 2/26/2020, 5/14/2020 Inline Storage System meters: 2/26/2020, 5/7/2020 5/7/2020, 8/8/2020, 8/15/2020, 10/9/2020	
 4. Sewer Use Ordinance 4.1 Did your community have a sewer use ordinance the excessive conventional pollutants ((C)BOD, SS, or pH) industries, commercial users, hauled waste, or resident Yes No If No, please explain: 	or toxic substances to the sewer from
 4.2 Was it necessary to enforce the ordinance? Yes No If Yes, please explain: Various violations occurred. The District responds to Response Plan. The semi-annual and annual Pretreat violations and the MMSD response. 	
5. Septage Receiving 5.1 Did you have requests to receive septage at your for Septic Tanks Holding Tanks Grease	,
o Yes o Yes o Yes	
● No ● No ● No	
 5.2 Did you receive septage at your facility? If yes, indi Septic Tanks Yes Septime Tanka 	cate volume in gallons.
Holding Tanks ○ Yes gallons ● No	
Grease Traps o Yes gallons	
 No 5.2.1 If yes to any of the above, please explain if planany of these wastes. 	It performance is affected when receiving
 Pretreatment 6.1 Did your facility experience operational problems, por hazardous situations in the sewer system or treatment commercial or industrial discharges in the last year? 	

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o Yes		
• No		
If yes, describe the situation and your community's response.		
 6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc o Yes 	2.?	
• No		
If yes, describe the types of wastes received and any procedures or ot in place to protect the facility from the discharge of hauled industrial w		at were

Total Points Generated	2
Score (100 - Total Points Generated)	98
Section Grade	A

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Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No.	Monthly	90% of	Effluent Monthly	Months of	Permit Limit	90% Permit		
002	Average	Permit Limit	Average (mg/L)	Discharge	Exceedance	Limit		
-	Limit (mg/L)	> 10 (mg/L)		with a Limit		Exceedance		
January	30	27	9	1	0	0		
February	30	27	6	1	0	0		
March	30	27	10	1	0	0		
April	30	27	6	1	0	0		
May	30	27	6	1	0	0		
June	30	27	5	1	0	0		
July	30	27	6	1	0	0		
August	30	27	6	1	0	0		
September	30	27	6	1	0	0		
October	30	27	6	1	0	0	0	
November	30	27	9	1	0	0		
December	30	27	10	1	0	0		
		* Eq	uals limit if limit is	<= 10				
Months of d	ischarge/yr			12				
Points per e	ach exceedand	ce with 12 mor	nths of discharge		7	3		
Exceedance	S				0	0		
Points					0	0		
Total num	ber of points					0		
exceedance the numbe of the year	e for this section r of months of r, the multiplica	on shall be bas discharge. Exa ation factor is	mittently to state sed upon a multipl ample: For a wast 12/6 = 2.0 on was taken to re	ication factor of ewater facility	of 12 months d discharging or	livided by]	
2.1 Was the ● Yes ○ No	2020-08-19							
3. Treatmen 3.1 What pr None		, were experie	nced over the last	year that thre	eatened treatm	ent?]	
4.1 At any t		t year was the	re an exceedance fecal coliform, or I		nit for any othe	er pollutants		

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If Yes, please explain:

4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test?

o Yes

• No

If Yes, please explain:

4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity?

o Yes

o No

• N/A

Please explain unless not applicable:

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

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Effluent Quality and Plant Performance (Total Suspended Solids)

	Limit (mg/L)	Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	7	1	0	0
February	30	27	5	1	0	0
March	30	27	8	1	0	0
April	30	27	5	1	0	0
Мау	30	27	6	1	0	0
June	30	27	4	1	0	0
July	30	27	5	1	0	0
August	30	27	6	1	0	0
September	30	27	5	1	0	0
October	30	27	5	1	0	0
November	30	27	6	1	0	0
December	30	27	6	1	0	0
		* Eq	uals limit if limit is	<= 10		
1onths of Di	ischarge/yr			12		
oints per e	each exceeda	ance with 12	months of disch	arge:	7	3
Exceedances	5				0	0
Points					0	0
Total Numb	per of Points					0

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 002	Monthly Average	Effluent Monthly	Months of	Permit Limit
	phosphorus Limit (mg/L)	Average phosphorus (mg/L)	Discharge with a Limit	Exceedance
January	.66	0.154	1	0
February	.66	0.136	1	0
March	.66	0.168	1	0
April	.66	0.117	1	0
Мау	.66	0.125	1	0
June	.66	0.135	1	0
July	.66	0.144	1	0
August	.66	0.210	1	0
September	.66	0.212	1	0
October	.66	0.147	1	0
November	.66	0.226	1	0
December	.66	0.204	1	0
Months of Dischar	ge/yr		12	
Points per each	exceedance with 1	2 months of dischar	ge:	10
Exceedances	0			
Total Number of	Points			0
exceedance for th the number of mo	is section shall be band the section shall be band the section shall be band to be band to be band to be band to band the section of the section shall be band to be	rmittently to waters o sed upon a multiplicat charging only 6 month	ion factor of 12 mor	ths divided by

1.2 If any violations occurred, what action was taken to regain compliance?

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Biosolids Quality and Management

	-	-																	
1. Biosolids 1.1 How c				spose	e of v	our l	oioso	lids?	(Che	eck a	ll tha	t app	ly)						
□ Land a									、				,,						
🛛 Public	ly Dis	tribut	ed Ex	cepti	onal	Quali	ty Bi	osoli	ds										
🗌 Hauleo	, d to a	nothe	er perr	nitte	d fac	ility													
🛛 Landfi			•			,													
☐ Incine																			
□ Other																			
NOTE: If as lagoor	[:] you (ns, re	ed be	ds, re	circu	lating	g san	d filt	ers,		em,	pleas	e des	scribe	e you	r sys	tem ty	ype su	ıch	
1.1.1 If y	you cl	necke	d Oth	er, pl	ease	desc	ribe												1
About Outfall	006	were	agricu	Itura	lly di	strib	uted	in 20)20 N	lothii	ng fro							n	
additio	on, no	tning	from	Outra		u wa	s ian	атше	a in	2020									
2. Land Ap	plicat	ion S	ite																
2.1 Last Y	'ear's	Appr	oved a				d Ap	plicat	ion S	Sites									
2.1.1 Ho			res di	d yoı	ı hav	'e?													
25578.8						2													1
2.1.2 Ho	w ma	ny ac	res di acro	-	ı use	?													
0																			
2.2 If you	ı did r	not ha	ve en	ough	acre	es for	you	r land	d app	licat	ion n	eeds	, wha	at act	ion v	vas ta	ken?		1
																			1
2.3 Did yo		orann	ly nitr	ogon	ona		f voi	ir ani	arove	d lar	nd an	nlica	tion	citoc	VOU	usod I	act vo] ar2	0
• Yes (3)			iy inci	ogen	UIT	iny O	i yot	n apl		u lai	iu ap	plica	CIOIT	SILES	you	useu i	asiye	ai :	
• No	o pon	103)																	
-	- 11 - 44-				1		6 I												
2.4 Have	all th	e site	s you	usea	last	year	tor I	and a	аррис	cation	n bee	en soi	l tesi	tea ir	n the	previo	ous 4		
years? • Yes																			
 No (10 	noin	tc)																	
-	point	15)																	
• N/A																			_
3. Biosolid			_																1
Number o	of bios	olids	outfal	ls in	your	WPD	es p	ermi	t:										
3.1 For ea		utfall	tested	, ver	ify th	ne bio	solic	ls me	etal q	ualit	y val	ues f	or yo	ur fa	cility	durin	g the	last	
calendar y	year.																		1
Outfall No	. 010	- JI (Cake -	LAN	DFIL	LED													
Parameter	80%		Ceiling		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80%	High	Ceiling	1
	of	Limit			-			Í							-		Quality		1
Arsenic	Limit	41	75														0	0	1
Cadmium		39	85														0	0	
Copper		1500	4300														0	0	1
																	0	0	
Lead		300	040						I		 						-		
Lead Mercurv		300 17	840 57														0		
Mercury	60	300 17	57													0	0	0	
	60 336															0	0	-	
Mercury Molybdenum	-		57 75													-	0	0	

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0

Outfall No	o. 00	6 - J	ones	Islar	nd EC	Q Slu	Idge	- PR	ODU	l								
Parameter	80% of Limit	Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41		<18	<18	<18	<17	<17	<17	<17	<17	<17	<17	<17	<17		0	0
Cadmium		39		<.95	<.95	<.97	<.94	<.95	<.94	<.93	<.94	<.93	<.92	<.93	<.93		0	0
Copper		1500		230	230	220	230	250	240	230	230	230	240	240	240		0	0
Lead		300		28	21	21	26	30	32	43	45	38	27	27	22		0	0
Mercury		17		.23	.18	.13	.24	.21	.16	.28	.16	.26	.24	.21	.21		0	0
Molybdenum	60		75	9	8.5	8	7.8	7.7	7.6	7.6	8.2	8.6	9.3	9.3	9.5	0		0
Nickel				21	22	22	23	26	23	22	20	23	26	25	24	0		0
Selenium				<4.3	<4.3	<4.4	<4.2	<4.2	<4.2	<4.2	4.4	<4.2	<4.1	<4.2	<4.2	0		0
Zinc		2800		420	370	360	370	380	370	400	380	380	360	370	360		0	0

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

- 0 (0 Points)
- 0 1-2 (10 Points)
- o > 2 (15 Points)

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)

o Yes

No (10 points)

• N/A - Did not exceed limits or no HQ limit applies (0 points)

• N/A - Did not land apply biosolids until limit was met (0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0 Exceedence Points

- 0 (0 Points)
- 1 (10 Points)
- 0 > 1 (15 Points)

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

• Yes (20 Points)

• No (0 Points)

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

4. Pathogen Control (per outfall):

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	01/01/2020 - 06/30/2020
Density:	38
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
Land Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.

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Outfall Number:	006	
Biosolids Class:	Α	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	01/01/2020 - 01/31/2020	1
Density:	38	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	
Process:	Heat Drying	-
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	02/01/2020 - 02/29/2020	1
Density:	0	-
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	03/01/2020 - 03/31/2020	-
Density:	11	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	-
Land Applied:	Yes	-
Process:	Heat Drying	-
	All product complied with either the heat drying	-
Process Description:	requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

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	5/7/2021	2020
Outfall Number:	006]
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	04/01/2020 - 04/30/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	05/01/2020 - 05/31/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	06/01/2020 - 06/30/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

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	5/7/2021
Outfall Number:	006
Biosolids Class:	Α
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2020 - 12/31/2020
Density:	3
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
_and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.
Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	07/01/2020 - 07/31/2020
Density:	0
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying
	requirement or time-temperature requirement. With either method, moisture content is 10% or lower.
Outfall Number:	006
Biosolids Class:	A
Bacteria Type and Limit:	Fecal Coliform
Sample Dates:	08/01/2020 - 08/31/2020
Density:	0
Sample Concentration Amount:	MPN/G TS
Requirement Met:	Yes
and Applied:	Yes
Process:	Heat Drying
Process Description:	All product complied with either the heat drying
	With either method, moisture content is 10% or lower.

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Outfall Number:	006] [
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	1
Sample Dates:	09/01/2020 - 09/30/2020	
Density:	1	
Sample Concentration Amount:	MPN/G TS	
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	1
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	10/01/2020 - 10/31/2020	1
Density:	0	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	
Outfall Number:	006	1
Biosolids Class:	A	
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	11/01/2020 - 11/30/2020	
Density:	3	1
Sample Concentration Amount:	MPN/G TS	1
Requirement Met:	Yes	1
Land Applied:	Yes	1
Process:	Heat Drying	1
Process Description:	All product complied with either the heat drying requirement or time-temperature requirement. With either method, moisture content is 10% or lower.	

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Limit (if applicable):

Results (if applicable):

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Outfall Number:	006	
Biosolids Class:	A	
Bacteria Type and Limit:	Fecal Coliform	
Sample Dates:	12/01/2020 - 12/31/2020	
Density:	0	
Sample Concentration Amount:	MPN/G TS	
Requirement Met:	Yes	
Land Applied:	Yes	
Process:	Heat Drying	
Process Description:	All product complied with either the heat drying	0
	requirement or time-temperature requirement.	
	With either method, moisture content is 10% or lower.	
	neet the process criteria at the time of land application ocess criteria not met at the time of land application?	n.
• No		
If yes, what action was taken?		
5.1 Verify the following information. If an button under the Options header in the l	ny of the information is incorrect, use the Report Issue eft-side menu.	2
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	90	
Outfall Number:	006	
Method Date:	01/29/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	91.10	
Outfall Number:	006	
Method Date:	02/18/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Option Used To Satisfy Requirement: Requirement Met: Land Applied:		

>90

91.40

Milwaukee Metro Sew Dist Combined

	5/7/2021	202
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	7
Land Applied:	Yes	7
Limit (if applicable):	>90	7
Results (if applicable):	90	
Outfall Number:	006	7
Method Date:	04/24/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.20	
Outfall Number:	006	
Method Date:	05/26/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	91.70	
Outfall Number:	006	
Method Date:	06/13/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.80	
Outfall Number:	006	
Method Date:	03/25/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	90	

Milwaukee Metro Sew Dist Combined

	5/7/2021	202
Outfall Number:	006	
Method Date:	07/08/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.20	
Outfall Number:	006	
Method Date:	08/10/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92	
Outfall Number:	006	
Method Date:	09/12/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.30	
Outfall Number:	006	
Method Date:	10/10/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	94.20	
Outfall Number:	006	
Method Date:	11/22/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	93.80	

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	5/7/2021	2020
Outfall Number:	006	
Method Date:	12/30/2020	
Option Used To Satisfy Requirement:	Drying With Unstabilized Solids	
Requirement Met:	Yes	
Land Applied:	Yes	
Limit (if applicable):	>90	
Results (if applicable):	92.80	o
 5.2 Was the limit exceeded or the proces Yes (40 Points) No If yes, what action was taken? 	s criteria not met at the time of land application?	
 6. Biosolids Storage 6.1 How many days of actual, current biosolids storage capacity did your wastewater treatme facility have either on-site or off-site? >= 180 days (0 Points) 150 - 179 days (10 Points) 120 - 149 days (20 Points) 90 - 119 days (30 Points) < 90 days (40 Points) < 90 days (40 Points) < 80 days (40 Points) < 90 days (40 Points) < 90 days (40 Points) < 121 f you checked N/A above, explain why. 		ent 0
7. Issues 7.1 Describe any outstanding biosolids is	sues with treatment, use or overall management:	

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Last Updated: Reporting For: 5/7/2021 **2020**

Staffing and Preventative Maintenance (All Treatment Plants)

 Plant Staffing 1.1 Was your wastewater treatment plant adequately staffed last year? Yes No If No, please explain: 	
Could use more help/staff for:	
 1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping? Yes No 	
If No, please explain:	
 2. Preventative Maintenance 2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items? Yes (Continue with question 2) □□ No (40 points)□□ 	
If No, please explain, then go to question 3:	
 2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment? Yes No (10 points) 	0
2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?Yes	
 Paper file system Computer system Both paper and computer system No (10 points) 	
 3. O&M Manual 3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed? Yes No 	
 4. Overall Maintenance /Repairs 4.1 Rate the overall maintenance of your wastewater plant. Excellent Very good Good Good Fair Poor Describe your rating: 	
Maintenance work is addressed on a priority system in a timely manner.	1

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Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Operator Certification and Education

1.1 Did y¢ ● Yes (0 ○ No (2) Name:	points) RETT P KELLY	n-charge during the	report year?			0
2.1 In acc and subcl treatment	tion Requirements cordance with Chapter NR 114.50 ass(es) were required for the op c plant and what level and subcla	erator-in-charge (O ass(es) were held by	IC) to operat	te the waste pr-in-charge?	water	
Sub Class	SubClass Description	WWTP	0.77	OIC		
		Advanced	OIT	Basic	Advanced	
A1	Suspended Growth Processes	Х			X	
A2	Attached Growth Processes					
A3	Recirculating Media Filters					
A4	Ponds, Lagoons and Natural		Х			
A5	Anaerobic Treatment Of Liquid					
В	Solids Separation	Х			X	
С	Biological Solids/Sludges	Х			X	0
Р	Total Phosphorus	Х			Х	
N	Total Nitrogen					
D	Disinfection	Х			Х	
L	Laboratory					
U	Unique Treatment Systems					
SS	Sanitary Sewage Collection	Х	NA	NA	NA	
 2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS is required 5 years after permit reissuance and is basic level only.) Yes (0 points) No (20 points) 						
 3. Succession Planning 3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)? M One or more additional certified operators on staff An arrangement with another certified operator An arrangement with another community with a certified operator An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year A consultant to serve as your certified operator None of the above (20 points) If "None of the above" is selected, please explain: 				0		

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting Fo 2020	or:
 4.1 If you had a designated operator-in-charge, was the operator-in-cle Education Credits at the following rates? OIT and Basic Certification: Averaging 6 or more CECs per year. Averaging less than 6 CECs per year. 	harge earning Contin	uing	

Advanced Certification:

• Averaging 8 or more CECs per year.

• Averaging less than 8 CECs per year.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

Last Updated: Reporting For 5/7/2021 2020
(XXX) XXX-XXXX
nses for your wastewater st reviewed and/or revised? Replacement Fund, etc.) or our wastewater treatment
ETE QUESTION 3]
<pre>* revised? \$ 15,442,080.00 \$ 0.00 \$ 15,442,080.00</pre>
F y ⁱ

3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)

+ \$

413,486.00

Milwaukee Metro Sew Dist Combined	Last Update 5/7/2021	d: Reporting 2020	For
3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)	0.	.00	
3.2.6 Ending Balance as of December 31st for CMAR Reporting Year	15,855,566	.00	
All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.			
3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs	s from 3.2.5 a	above.	
3.3 What amount should be in your Replacement Fund? \$ 15,855,	566.00		0
 Please note: If you had a CWFP loan, this amount was originally based of Assistance Agreement (FAA) and should be regularly updated as needed. instructions and an example can be found by clicking the SectionInstruct header in the left-side menu. 3.3.1 Is the December 31 Ending Balance in your Replacement Fund above greater than the amount that should be in it (#3.3)? Yes 	Further calcu ions link unde	ulation er Info	
O No			
If No, please explain.			
 4. Future Planning 4.1 During the next ten years, will you be involved in formal planning for a or new construction of your treatment facility or collection system? Yes - If Yes, please provide major project information, if not already lis No 			
Project Project Description #		Approximate Construction Year	
1 South Shore Water Reclamation Facility: See South Shore CMAR, Financial Management, Item 4.1			
2 Conveyance Projects: 31 Projects	148,306,444		
3 Jones Island Water Reclamation Facility and Pipelines: 48 Projects	193,783,659	2026	
5. Financial Management General Comments Response #4 above represents planned spending for Conveyance (Collect Reclamation Facility (Jones Island, Pipelines, and South Shore) projects for planning cycle beginning in 2021. Jones Island and Pipeline project counts combined. Additional projects, i.e. Watercourse Improvement and other p service during the same 6-year period will total \$1.5 billion. For a complet and expenditures planned for the period 2021 to 2026, refer to the MMSD	or the District's and costs ha rojects, as we the listing of all	's 6-year ive been ell as debt I projects	
ENERGY EFFICIENCY AND USE			
6. Collection System6.1 Energy Usage6.1.1 Enter the monthly energy usage from the different energy sources:			
COLLECTION SYSTEM PUMPAGE: Total Power Consumed			
Number of Municipally Owned Pump/Lift Stations: 19			

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	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	614,950	40,477
February	507,185	22,644
March	474,534	50,211
April	453,182	20,131
May	443,725	7,246
June	480,247	16,076
July	652,207	4,681
August	432,253	5,123
September	411,266	6,909
October	350,687	15,032
November	212,265	20,414
December	440,164	4,824
Total	5,472,665	213,768
Average	456,055	17,814

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply): ☑ Comminution or Screening

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- Extended Shaft Pumps
- \boxtimes Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- ☑ Variable Speed Drives
- Other:

Gate control motors, heaters

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

o No

• Yes

Year: _____

2018

By Whom:

WE Energies

Describe and Comment:

A level 1 energy assessment was done in 2018 for the Port Washington Pumping Station. The assessment delivered a report that outlined opportunities for reducing energy.

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6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

In 2021 the District will evaluate the various sites for opportunities to improve our energy efficiency and renewable energy profile through Energy Plan in addition to evaluating energy efficiency during rehabilitation projects. Improved power monitor monitoring, controls, and the installation of energy efficient devices such as VFDs continue to be practiced by the District.

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/ Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/ Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	9,198,942	2,940.00	3,129	5,493.98	1,674	1,386,458
February	8,737,274	2,473.00	3,533	4,757.94	1,836	1,232,772
March	9,300,153	3,609.00	2,577	6,537.31	1,423	1,358,543
April	8,410,034	2,995.00	2,808	5,124.72	1,641	1,281,039
Мау	10,442,693	4,874.00	2,143	6,442.23	1,621	1,620,060
June	8,803,038	3,082.00	2,856	4,617.27	1,907	1,140,787
July	10,492,049	4,147.00	2,530	5,672.10	1,850	1,445,018
August	9,709,446	3,345.00	2,903	6,030.31	1,610	1,323,123
September	8,553,825	2,499.00	3,423	5,627.25	1,520	1,165,588
October	7,444,592	2,343.00	3,177	5,729.82	1,299	1,118,406
November	8,056,820	2,448.00	3,291	5,560.05	1,449	1,694,860
December	8,672,081	2,769.00	3,132	5,538.71	1,566	1,705,440
Total	107,820,947	37,524.00		67,131.69		16,472,094
Average	8,985,079	3,127.00	2,959	5,594.31	1,616	1,372,675

7.2 Energy Related Processes and Equipment

7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):

□ Aerobic Digestion

□ Anaerobic Digestion

□ Biological Phosphorus Removal

- ⊠ Coarse Bubble Diffusers
- Dissolved O2 Monitoring and Aeration Control
- ☑ Effluent Pumping
- ⊠ Fine Bubble Diffusers
- ☑ Influent Pumping
- Mechanical Sludge Processing
- ☑ Nitrification
- SCADA System

In the second se	Last Updated: 5/7/2021	Reporting Fo
 □ UV Disinfection ☑ Variable Speed Drives ☑ Other: 		
Gravity belt thickeners, belt filter presses, biosolids dryers		
7.2.2 Comments:]
7.3 Future Energy Related Equipment		
7.3.1 What energy efficient equipment or practices do you have planned treatment facility?	for the future for	your
The 2035 Vision, adopted in 2010, has two elements: integrated waters climate change adaptation with an emphasis on energy efficiency. The I improvement projects with the Vision to meet a net of 100% of MMSD's renewable energy sources and 80% produced with internal, renewable's was finalized in January 2015 and is being implemented to attain the Di embodied in the 2035 Vision available here: https://www.mmsd.com/al recommendations in the Energy Plan are all either in progress or were se Facilities Plan that was finalized in 2020. The Energy Plan will be renewa treatment plants, we recommend the following examples of energy effice Jones Island Water Reclamation Facility: J01013 – Preliminary Facility Electrical Upgrade J01025 – High & Low Level Screw Pump Replacement J01027 – Primary Clarifier, Sludge, and Scum Piping J02012 – Aeration System Improvements J04035 – Greens Grade Train Replacement and Redundant Train Evalua J04037 – Thickened Sludge Improvements J04046 – D&D Induced Draft Fan Energy Conservation J06061 – Dryer Conversion for Additional LFG P02004 – Landfill Gas System – Metro Landfill M03102 – Biosolids Advanced Facilities Planning M03051 – Alternative Energy Planning (Air Compressors Evaluation)	District aligns cap s energy needs wissources. The Energy istrict's long-term bout-us/2035-vis studied in the 205 ed in 2021. For the ciency projects at	ital rgy Plan goals ion. The io ne
8. Biogas Generation		
 8.1 Do you generate/produce biogas at your facility? ● No ○ Yes 		
If Yes, how is the biogas used (Check all that apply):		
Building Heat		
Process Heat Generate Electricity		
□ Other:		
]
9. Energy Efficiency Study		

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting For 2020
9.1 Has an Energy Study been performed for your treatment facility? O No		
• Yes		
⊠ Entire facility		
Year: 2017 By Whom:		
University of Wisconsin - Milwaukee Industrial Assessment Center		
Describe and Comment:		
Assessment covered equipment drives, lighting, and lubricant use thref facility.	oughout the entir	e
Part of the facility		
Year:		
By Whom:		
Short Elliot Hendrickson and Poyry (2015), Brabazon and Focus on Ene	ergy (2020)	
Describe and Comment:		
MACT assessment was completed of the boilers in 2015. High pressur was completed in 2020. Many other processes throughout the facility are monitored for efficiency internally.	•	· · · · · · · · · · · · · · · · · · ·

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	Α

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	pacity, Management, Operation, and Maintenance (CMOM) Program To you have a CMOM program that is being implemented?
• Ye	5
o No	
If N	o, explain:
	to you have a CMOM program that contains all the applicable components and items ding to Wisc. Adm Code NR 210.23 (4)?
• Ye	5
o No	(30 points)
0 N/	Α
If N	o or N/A, explain:
comp 🛛 G	Does your CMOM program contain the following components and items? (check the conents and items that apply) to bals [NR 210.23 (4)(a)]
Des	cribe the major goals you had for your collection system last year:
CN 1. 2. sta 3. 4. 5. 6. 7. 8. 9. ma 10 for an 11 of 12 res	e MMSD CMOM goals related to the conveyance and storage system as presented in the IOM Program Annual Report for 2020 are: Continue the support of the CMOM Program within the District organizational structure. Communicate the goals and objectives of the CMOM Program to internal and external ikeholders, monitor the CMOM Program, and institute program modifications. Continue to maintain adequate financial planning. Continue to comply with regulatory requirements. Continue to support and monitor the regional CMOM program. Continue to maintain a safe work environment and facilities and also sustain a competent rkforce. Establish CMOM program elements specific to minimizing the number and volume of CSOs. Continue to implement and support the Wet Weather Peak Flow Management Program. Where possible, establish additional practices to prevent sanitary sewer overflows (SSOs), intain or improve system performance, and avoid preventable failures. Continue to establish and document level of protection, design, and performance standards new conveyance assets constructed in the District service area, and consider documented d predicted changes in climate. Minimize the cost of conveyance asset ownership while maintaining necessary stewardship assets and achieving defined protection levels. Enhance District level of knowledge and understanding of wet weather flows and system sponse to precipitation and other factors. Promptly and accurately respond to customer inquiries.
	you accomplish them?
	res
• `	
• ` 0	No, explain:

Does this chapter of your CMOM include:

☑ Organizational structure and positions (eg. organizational chart and position descriptions)

 \boxtimes Internal and external lines of communication responsibilities

 \boxtimes Person(s) responsible for reporting overflow events to the department and the public

Milwaukee Metro Sew Dist Combined	Last Updated: 5/7/2021	Reporting 2020	
⊠ Legal Authority [NR 210.23 (4) (c)]			
What is the legally binding document that regulates the use of your sewe	er system?		
If you have a Sewer Use Ordinance or other similar document, when was revised? (MM/DD/YYYY) 2018-01-22	it last reviewed	and	
Does your sewer use ordinance or other legally binding document addres	s the following:		
New sewer and building sewer design, construction, installation, testi	ng and inspectio	n	
oxtimes Rehabilitated sewer and lift station installation, testing and inspection	1		
Sewage flows satellite system and large private users are monitored a necessary	and controlled, a	S	
☑ Fat, oil and grease control			
\boxtimes Enforcement procedures for sewer use non-compliance			
Operation and Maintenance [NR 210.23 (4) (d)] Does your operation and maintenance program and equipment include the second se	e following:		
\boxtimes Equipment and replacement part inventories	le following.		
Up-to-date sewer system map			
\boxtimes A management system (computer database and/or file system) for co	llection system		
_ information for O&M activities, investigation and rehabilitation	·		
\boxtimes A description of routine operation and maintenance activities (see que	estion 2 below)		
Capacity assessment program			
Basement back assessment and correction			
\boxtimes Regular O&M training			
\boxtimes Design and Performance Provisions [NR 210.23 (4) (e)] \Box	ion and increat	ion of	0
What standards and procedures are established for the design, construct the sewer collection system, including building sewers and interceptor se property?			
State Plumbing Code, DNR NR 110 Standards and/or local Municipal (Code Reauireme	nts	
☑ Construction, Inspection, and Testing			
□ Others:			
L ☑ Overflow Emergency Response Plan [NR 210.23 (4) (f)]□□			
Does your emergency response capability include:			
Responsible personnel communication procedures			
Response order, timing and clean-up			
Public notification protocols			
🛛 Training			
oxtimes Emergency operation protocols and implementation procedures			
$oxtimes$ Annual Self-Auditing of your CMOM Program [NR 210.23 (5)] $\Box\Box$			
\Box Special Studies Last Year (check only those that apply):			
Infiltration/Inflow (I/I) Analysis			
Sewer System Evaluation Survey (SSES)			
Sewer Evaluation and Capacity Managment Plan (SECAP)			
Lift Station Evaluation Report Otherway			
Others:			
2. Operation and Maintenance			Γ
2.1 Did your sanitary sewer collection system maintenance program include	de the following		

maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning 0.33 % of system/year Root removal 0 % of system/year Flow monitoring 85 % of system/year Smoke testing 0 % of system/year Sewer line 0 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Milwaukee Metro Sew Dist	Combined		Last Updated: 5/7/2021	Reporting For 2020
Root removal0% of system/yearFlow monitoring85% of system/yearSmoke testing0% of system/yearSewer line*********************************	Cleaning	0.33	3 % of system/year		
Smoke testing 0 % of system/year Sewer line 4.36 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	•				
Smoke testing 0 % of system/year Sewer line 4.36 % of system/year televising 4.36 % of system/year Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Flow monitoring	85	% of system/year		
televising4.36% of system/yearManholeinspections0% of system/yearLift station O&M19# per L.S./yearManholerehabilitation0% of manholes rehabbedMainlinerehabilitation0% of sewer lines rehabbedPrivate sewer	Smoke testing	0	% of system/year		
Manhole 0 % of system/year Lift station O&M 19 # per L.S./year Manhole 0 % of manholes rehabbed rehabilitation 0 % of sewer lines rehabbed Private sewer 0 % of sewer lines rehabbed	Sewer line				
inspections0% of system/yearLift station O&M19# per L.S./yearManhole rehabilitation0% of manholes rehabbedMainline rehabilitation0% of sewer lines rehabbedPrivate sewer0% of sewer lines rehabbed	televising	4.36	% of system/year		
Lift station O&M 19 # per L.S./year Manhole rehabilitation 0 % of manholes rehabbed Mainline rehabilitation 0 % of sewer lines rehabbed Private sewer			% of system/year		
Manhole rehabilitation 0 % of manholes rehabbed Mainline rehabilitation 0 % of sewer lines rehabbed Private sewer	•	19			
rehabilitation 0 % of manholes rehabbed Mainline		19			
rehabilitation 0 % of sewer lines rehabbed Private sewer		0	% of manholes rehabbed		
Private sewer					
	rehabilitation	0	% of sewer lines rehabbe	d	
	Private sewer inspections	0.09	% of system/year		
Private sewer I/I	•	0.05	to or systemy year		
removal 0.39 % of private services	-	0.39	% of private services		
River or water	River or water				
crossings 0 % of pipe crossings evaluated or maintained	•				ned
Please include additional comments about your sanitary sewer collection system below:	Please include additional	comments about your	r sanitary sewer collection	system below:	
 Performance Indicators 3.1 Provide the following collection system and flow information for the past year. 					
41.01 Total actual amount of precipitation last year in inches					
34.76 Annual average precipitation (for your location)	34.76 Annı	ual average precipitati	ion (for your location)		
302 Miles of sanitary sewer	302 Miles	s of sanitary sewer			
19 Number of lift stations		ber of lift stations			
0 Number of lift station failures	0 Num	ber of lift station failu	ires		
0 Number of sewer pipe failures					
0 Number of basement backup occurrences	0 Num	0 Number of basement backup occurrences			
0 Number of complaints	0 Num	0 Number of complaints			
102 Average daily flow in MGD (if available)	102 Aver	102 Average daily flow in MGD (if available)			
157 Peak monthly flow in MGD (if available)	157 Peak	monthly flow in MGD) (if available)		
386 Peak hourly flow in MGD (if available)	386 Peak	hourly flow in MGD (if available)		
3.2 Performance ratios for the past year:					
0.00 Lift station failures (failures/year)		•			
0.00 Sewer pipe failures (pipe failures/sewer mile/yr)					
0.03 Sanitary sewer overflows (number/sewer mile/yr)					
0.00 Basement backups (number/sewer mile)			-		
0.00 Complaints (number/sewer mile)				N N	
1.5 Peaking factor ratio (Peak Monthly:Annual Daily Avg))	
3.8 Peaking factor ratio (Peak Hourly:Annual Daily Avg)	3.8 Peak	ing factor ratio (Peak	nouny:Annual Dally AVg)		

Milwaukee Metro Sew Dist Combined

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **				
	Date	Location	Cause	Estimated Volume
	5/17/2020 5:00:00 PM - 5/17/2020 8:00:00 PM	North Broadmoor Road	Rain	0.666
	5/17/2020 4:40:00 PM - 5/17/2020 10:40:00 PM	North River Road and W Green Tree Road	Rain	9.065
	5/17/2020 4:59:00 PM - 5/17/2020 6:41:00 PM	West Manitoba Street and south 35th Street	Rain	1.335
	5/17/2020 4:46:00 PM - 5/17/2020 8:32:00 PM	West Roosevelt Drive and North 35th Street	Rain	3.06
	5/17/2020 4:30:00 PM - 5/17/2020 5:15:00 PM	S 79th St extended at W Dickinson State Fair Parking Lot	Rain	0.005
	5/17/2020 4:53:00 PM - 5/17/2020 5:30:00 PM	S 74th St and W Oklahoma Ave	Rain	0.04
	5/17/2020 5:20:00 PM - 5/17/2020 6:20:00 PM	North Lake Drive, North of East Ravine Lane	Rain	0.022
	5/17/2020 4:00:00 PM - 5/19/2020 9:00:00 PM	Please see attached table for locations of discharges	Rain	2100
	7/10/2020 12:52:00 AM - 7/10/2020 4:35:00 AM	Please see attached table for location of discharges	Rain	7.1
	8/2/2020 9:47:00 PM - 8/2/2020 11:47:00 PM	S 74th St and W Oklahoma Ave	Rain	0.175

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

What actions were taken, or are underway, to reduce or eliminate SSO or TFO occurences in the future?

The District and Veolia Water Milwaukee will continue to operate the conveyance system, storage system, and the water reclamation facilities in a manner to prevent separate sewer overflows and to maximum the capture of combined sewer overflows. The District's Wet Weather Peak Flow Management Program evaluates infiltration and inflow in our service area to identify areas to target for improvements. To further reduce the risk of basement backups and separate sewer overflows, the District has funded \$31M of infiltration and inflow reduction projects throughout our service area over the last ten years. In 2020 the Private Property Inflow and Infiltration Reduction Program was made a permanent component of the annual budget. The District has started design on a project to reduce overflows from the Mill Road Relief Sewer at the North Broadmoor Road and North River Road/W Green Tree Road sites. Design continues to address overflows from the Roosevelt MIS at Roosevelt Drive and North 35th Street. The District also has a SSO Elimination Study underway to determine what could be done to reduce or eliminate overflows at each SSO site.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- o No

If Yes, please describe:

Yes; Infiltration and inflow (I/I) in satellite municipal collection systems is the primary contributor of peak flows from the separate sewer area of the MMSD conveyance system and is one of the primary causes of separate sewer overflows from the MMSD system.

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year? • Yes

• No

If Yes, please describe:

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5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:

MMSD believes that I/I has been reduced over the past year. Twenty-five of the twenty-eight member municipalities have PPI/I reduction projects completed or in progress in the first 11 years of the PPI/I Program. Many of the municipalities also completed public sector I/I reduction projects. MMSD has adopted peak flow performance standards in its Chapter 3 revisions which require tributary municipalities to reduce I/I. There were no new metersheds identified as noncompliant in 2020.

5.4 What is being done to address infiltration/inflow in your collection system?

MMSD continues sewer rehab through Operation and Maintenance, and Capital programs. MMSD is continuing to work with satellite municipalities to reduce inflow and infiltration with the wet weather peak flow management program. Throughout 2020 the District collected data from 194 permanent meters and 153 portable meters and also 150 surcharge level indicators in strategically selected sanitary sewers within its service area to more accurately measure wastewater flows under both dry and wet weather conditions. The measured peak flows are compared to the allowable peak flows listed in Chapter 3 of the District's rules. Action will be taken for any metersheds that are identified as exceeding the allowable peak flows. MMSD has implemented the Private Property Inflow and Infiltration (PPI/I) Reduction Program in 2011 to support municipal work in reducing I/I from local private property sources. Twenty-five of the twenty-eight member municipalities have PPI/I reduction projects completed or in progress in the 11th year of the PPI/I Program. Additionally, MMSD installed 36 Micrometers to enhance I/I data collection. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. MMSD completed and implemented the MMSD CMOM program in 2007 and has continued implementation annually. In addition, all municipalities have developed and implemented CMOM and Asset Management programs. MMSD also has a Green Infrastructure (GI) initiative program that is aimed at capturing 740 million gallons of water every time it rains by the year 2035. In 2020 MMSD started a \$20M strategic green infrastructure installation program, called the Fresh Coast Protection Partnership (FCPP). This program is a public private partnership with Corvias; its goals center on ramping up the pace at which GI is installed within our GI Service area. The FCPP will work towards the goal of driving down the per-gallon total cost of GI, while cost effectively building local capacity and expertise in GI practices and producing the greatest impact on the District's local community and conveyance system. In 2020 alone, MMSD built 3,000,000 gallons worth of green infrastructure capture and by the end of 2020, the MMSD had built enough projects to total 37 MG of GI storage capacity each time it rains.

Total Points Generated	0
Score (100 - Total Points Generated)	100
Section Grade	A

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Grading Summary

WPDES No: 0036820

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent	A	4	3	12
BOD/CBOD	A	4	10	40
TSS	A	4	5	20
Phosphorus	A	4	3	12
Biosolids	A	4	5	20
Staffing/PM	A	4	1	4
OpCert	A	4	1	4
Financial	A	4	1	4
Collection	A	4	3	12
TOTALS		32	128	
GRADE POINT AVERAGE (GPA) = 4.00				

Notes:

A = Voluntary Range (Response Optional)

B = Voluntary Range (Response Optional)

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

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	E.

Resolution or Owner's Statement

Name of Governing				
Body or Owner:	MMSD Commission			
	MMSD Commission			
Date of Resolution or Action Taken:				
	2021-06-28			
Resolution Number:				
Date of Submittal:				
	E GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR ade A or B. Required for grade C, D, or F):			
Influent Flow and Loadings: (
Effluent Quality: BOD: Grade	= A			
Effluent Quality: TSS: Grade	= A			
Effluent Quality: Phosphorus:	Grade = A			
Biosolids Quality and Management: Grade = A				
Staffing: Grade = A				
Operator Certification: Grade	A			
Financial Management: Grade	e = A			
Collection Systems: Grade =	A			
(Regardless of grade, respon	se required for Collection Systems if SSOs were reported)			
	sistently meet CSO Performance Standards for water quality based			
	our permit. As stated in the current WPDES Permit (Section 4.3.3 bmitted the documentation that demonstrated implementation of each			
	is in accordance with Section IIB of the U.S. EPA CSO Control Policy.			
The permittee submitted thi	s documentation to the Department as an element of its 2020			
	the Department on December 26, 2007." Not content with just			
	vever, the District has a goal of 0 CSOs as targeted in our 2035 Vision year Long Range Financing Plan includes \$1.5 billion (\$858 million in			
projects and \$633 million in	debt service) to maintain and improve the regional capital			
	tect public health, homes, businesses and waterways. This includes			
	erty sources of excess water that can overwhelm sanitary sewer nmitted \$4 billion for clean water infrastructure in previous years,			
	is vital for optimizing reliability and performance of new and aging			
	plants, sewers, and flood management facilities.			

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ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) **G.P.A. = 4.00**