

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF THE VALLEY METRO SEWERAGE DISTRICT
 Contact Address: 801 Thilmany Rd
 Kaukauna, WI 54130
 Facility Contact: Brian Helming, District Director
 Phone Number: 920-766-5731
 Reporting Period: 06/01/2024 - 06/30/2024
 Form Due Date: 07/21/2024
 Permit Number: 0031232

Date Received:
 DOC: 545491
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Sarah J Adkins
 Reviewer: Barti Oumarou
 Office: Oshkosh

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	5.281	8.721	185	116	
	2	4.737	7.941	199	136	
	3	7.736	7.920	234	176	
	4	5.300	8.738	202	168	
	5	5.948	9.614	166	152	<1.3
	6	6.305	8.707	177	152	
	7	4.721	7.570	228	128	
	8	4.413	7.610	160	160	
	9	4.509	7.247	180	172	
	10	3.982	7.589	198	204	
	11	3.750	6.979	208	220	
	12	3.273	6.579	216	212	
	13	2.614	6.409	216	160	
	14	3.874	6.728	291	172	
	15	4.472	6.322	140	160	
	16	3.212	5.847	214	196	
	17	3.623	6.693	220	204	
	18	3.503	7.093	194	156	
	19	3.417	6.833	172	156	
	20	4.150	7.036	182	152	
	21	4.885	8.160	114	156	
	22	13.792	16.781	<100	88	
	23	10.795	14.193	<100	80	
	24	7.818	10.985	121	124	
	25	14.622	18.087	<100	68	
	26	9.269	12.727	102	88	
	27	7.132	9.915	125	76	
	28	7.532	10.142	142	80	
	29	8.546	11.897	<100	80	
	30	6.275	9.586	152	128	
	31					

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
Summary Values	Monthly Avg	5.982866667	9.021633333	157.933333333	144	0
	Daily Max	14.622	18.087	291	220	<1.3
	Daily Max - Variable					
	Daily Min	2.614	5.847	<100	68	<1.3
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD					1.3
	LOQ					5
	QC Exceedance	N	N	N	N	N
	Lab Certification			445005220	445005220	405132750

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	133	147	264	315	553
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5	6.9	42.7	<5.9	10.8	95.8
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
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	28					
	29					
	30					
	31					

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	133	147	264	315	553
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	6.9	42.7	0	10.8	95.8
	Daily Max	6.9	42.7	<5.9	10.8	95.8
	Daily Max - Variable					
	Daily Min	6.9	42.7	<5.9	10.8	95.8
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD	205	3.4	5.9	2.6	11.6
	LOQ	10	10	20	10	40
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	66	377	204	112	457
	Description	BOD5, Total	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total
	Units	mg/L	su	#/100ml	ug/L	mg/L
	Sample Type	24 HR FLOW PROP	GRAB	GRAB	GRAB	24 HR FLOW PROP
	Frequency	DAILY	5/WEEK	WEEKLY	5/WEEK	5/WEEK
Sample Results	Day 1	6	7.6			5.6
	2	6	7.6			7.2
	3	6	7.7	58	<100	6.8
	4	5	7.2		<100	12.0
	5	6	7.7		<100	7.2
	6	5	7.3		<100	7.6
	7	5	7.4		<100	6.0
	8	5	7.3			6.0
	9	6	7.3			6.0
	10	6	7.3	48	<100	6.4
	11	6	7.4		<100	9.2
	12	9	7.5		<100	10.8
	13	7	7.4		<100	7.2
	14	7	7.5		<100	7.6
	15	7	7.2			5.2
	16	7	7.3			6.0
	17	7	7.4	15	<100	6.4
	18	6	7.4		<100	9.6
	19	7	7.5		<100	9.6
	20	5	7.4		<100	6.8
	21	4	7.6		<100	4.0
	22	9	7.7			10.0
	23	5	7.4			5.2
	24	5	7.6		<100	4.0
	25	5	7.5	240	<100	6.0
	26	4	7.6		<100	4.4
	27	4	7.8		<100	5.2
	28	3	7.9		<100	4.0
	29	<2.4	7.6			3.6
	30	3	7.4			5.2
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		377		204		112		457	
	Description	BOD5, Total		pH Field		Fecal Coliform		Chlorine, Total Residual		Suspended Solids, Total	
	Units	mg/L		su		#/100ml		ug/L		mg/L	
Summary Values	Monthly Avg	5.5333333333		7.4833333333		90.25		0		6.6933333333	
	Daily Max	9		7.9		240		<100		12	
	Daily Max - Variable										
	Daily Min	<2.4		7.2		15		<100		3.6	
	Geometric Mean -					56.265597215					
	Geometric Mean -					240					
	Week 1 Avg	5.571428571								7.485714286	
	Week 2 Avg	6.571428571								7.6	
	Week 3 Avg	6.142857143								6.8	
	Week 4 Avg	5								5.542857143	
Limit(s) in Effect	Monthly Avg	30	0					38	0	30	0
	Daily Max			9	0			38	0		
	Daily Max - Variable										
	Daily Min			6	0						
	Geometric Mean -					400	0				
	Geometric Mean -					656	0				
	Weekly Avg	45	0							45	0
QA/QC Information	LOD							100			
	LOQ							100			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220								445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	457	1348	1347	388	388
	Description	Suspended Solids, Total	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total
	Units	lbs/day	lbs/month	lbs/day	mg/L	lbs/day
	Sample Type	CALCULATED	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	5/WEEK	MONTHLY	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	247	0	247	0.19	8.37
	2	284	0	284	0.22	8.69
	3	269	0	269	0.19	7.50
	4	530	0	530	0.19	8.40
	5	357	0	357	0.21	10.42
	6	400	0	400	0.17	8.94
	7	236	0	236	0.19	7.48
	8	221	0	221	0.27	9.94
	9	226	0	226	0.42	15.79
	10	213	0	213	0.21	6.97
	11	288	0	288	0.18	5.63
	12	295	0	295	0.21	5.73
	13	157	0	157	0.25	5.45
	14	246	0	246	0.51	16.48
	15	194	0	194	0.28	10.44
	16	161	0	161	0.22	5.89
	17	193	0	193	0.18	5.44
	18	296	0	296	0.19	5.87
	19	296	0	296	0.19	5.86
	20	247	0	247	0.17	6.19
	21	163	0	163	0.20	8.15
	22	1150	0	1150	0.34	39.11
	23	468	0	468	0.18	16.21
	24	261	0	261	0.17	11.08
	25	732	0	732	0.17	20.73
	26	340	0	340	0.16	12.37
	27	309	0	309	0.17	10.11
	28	251	0	251	0.14	8.79
	29	257	0	257	0.13	9.27
	30	272	0	272	0.11	5.76
	31					

	Sample Point	001	001	001	001	001	
	Description	Effluent	Effluent	Effluent	Effluent	Effluent	
	Parameter	457	1348	1347	388	388	
	Description	Suspended Solids, Total	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	
	Units	lbs/day	lbs/month	lbs/day	mg/L	lbs/day	
Summary Values	Monthly Avg	318.6333333333	0	318.6333333333	0.213666667	10.2353333333	
	Daily Max	1150	0	1150	0.51	39.11	
	Daily Max - Variable						
	Daily Min	157	0	157	0.11	5.44	
	Geometric Mean -						
	Geometric Mean -						
	Week 1 Avg			331.857142857			
	Week 2 Avg			235.142857143			
	Week 3 Avg			221.428571429			
	Week 4 Avg			501.571428571			
Limit(s) in Effect	Monthly Avg			801	0	1	0
	Daily Max						
	Daily Max - Variable						
	Daily Min						
	Geometric Mean -						
	Geometric Mean -						
	Weekly Avg			1345	0		
QA/QC Information	LOD					0.026	
	LOQ					0.087	
	QC Exceedance	N	N	N	N	N	N
	Lab Certification					445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	87	133	147	264
	Description	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable
	Units	mg/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2	0.2				
	3	0.1				
	4	0.7				
	5	0.1	<1.3	<2.5	3.8	<5.9
	6	0.1				
	7					
	8					
	9	0.1				
	10	0.2				
	11	0.1				
	12	1.4				
	13	0.3				
	14					
	15					
	16	0.2				
	17	0.2				
	18	0.1				
	19	0.1				
	20	0.5				
	21					
	22					
	23	0.1				
	24	0.6				
	25	0.2				
	26	0.1				
	27	0.2				
	28					
	29					
	30	0.1				
	31					

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	87	133	147	264
	Description	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable
	Units	mg/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	0.271428571	0	0	3.8	0
	Daily Max	1.4	<1.3	<2.5	3.8	<5.9
	Daily Max - Variable					
	Daily Min	0.1	<1.3	<2.5	3.8	<5.9
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg	0.24				
	Week 2 Avg	0.42				
	Week 3 Avg	0.22				
	Week 4 Avg	0.24				
Limit(s) in Effect	Monthly Avg	4.4	0			
	Daily Max	17	0			
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg	11	0			
QA/QC Information	LOD	0.027	1.3	2.5	3.4	5.9
	LOQ	0.09	5	10	10	20
	QC Exceedance	N	N	N	N	N
	Lab Certification	445005220	405132750	405132750	405132750	405132750

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CONTINUOUS	GAUGE STN	CALCULATED
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	DAILY
Sample Results	Day 1			3.440	9800	9178
	2			3.204	9880	9593
	3			3.184	9300	9848
	4			3.438	9700	9720
	5	9.2	14.9	3.666	9980	9670
	6			2.402	9860	9715
	7			2.849	9970	9710
	8			3.197	9950	9878
	9			2.738	9840	9940
	10			3.607	8970	9905
	11			3.229	7620	9683
	12			3.306	6240	9095
	13			3.795	5430	8186
	14			2.854	5600	7065
	15			1.850	5370	6223
	16			2.635	6200	5660
	17			3.070	6680	5650
	18			3.590	6780	5963
	19			3.416	6970	6258
	20			2.886	7500	6658
	21			3.275	8450	6983
	22			2.989	9800	7425
	23			3.398	11100	8180
	24			3.167	12300	9213
	25			3.465	12900	10413
	26			3.458	12300	11525
	27			2.783	12100	12150
	28			2.610	12100	12400
	29			3.351	11900	12350
	30			3.311	11500	12100
	31					

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
Summary Values	Monthly Avg	9.2	14.9	3.138766667	9203	9011.2333333333
	Daily Max	9.2	14.9	3.795	12900	12400
	Daily Max - Variable					
	Daily Min	9.2	14.9	1.85	5370	5650
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD	2.6	11.6			
	LOQ	10	40			
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750			

	Sample Point	601	006	006	006	006
	Description	River Monitoring	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance
	Parameter	401	544	12	843	543
	Description	WLA Previous Day River Temp	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values
	Units	degF	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	SEE TABLE	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	66	5568	7684	255	38976
	2	66	5568	7684	250	38976
	3	67	5568	7684	228	38976
	4	67	5568	7684	241	38976
	5	67	5568	7684	287	38976
	6	69	5568	7684	253	38976
	7	70	5568	7684	184	38976
	8	69	5568	7684	192	38976
	9	68	5568	7684	244	38976
	10	68	5568	7684	202	38976
	11	67	5568	7684	201	38976
	12	67	5568	7684	250	38976
	13	67	5568	7684	155	38976
	14	68	5568	7684	222	38976
	15	70	5265	7266	254	38673
	16	71	5265	7266	185	38370
	17	71	5265	7266	206	38067
	18	73	5265	7266	199	37764
	19	75	4652	6420	207	36848
	20	75	4652	6420	182	35932
	21	74	4652	6420	158	35016
	22	72	5265	7266	1087	35016
	23	72	5568	7684	423	35319
	24	72	5568	7684	349	35622
	25	73	5568	7684	585	35925
	26	74	5568	7684	340	36841
	27	74	5568	7684	241	37757
	28	73	5568	7684	191	38673
	29	72	5568	7684	171	38976
	30	72	5568	7684	140	38976
	31					

	Sample Point	601	006	006	006	006
	Description	River Monitoring	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance
	Parameter	401	544	12	843	543
	Description	WLA Previous Day River Temp	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values
	Units	degF	lbs/day	lbs/day	lbs/day	lbs/day
Summary Values	Monthly Avg	70.3	5425.9	7487.9333333333	269.4	37981.3
	Daily Max	75	5568	7684	1087	38976
	Daily Max - Variable				1087	
	Daily Min	66	4652	6420	140	35016
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable				0	0
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	006	112
	Description	WLA BOD5 Discharge Compliance	In-Plant Diversion
	Parameter	541	211
	Description	WLA 7 Day Sum Of BOD5 Discharged	Flow Rate
	Units	lbs/day	MGD
	Sample Type	CALCULATED	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1	3514	
	2	3557	
	3	3314	
	4	2929	
	5	2087	
	6	1774	
	7	1698	
	8	1635	
	9	1629	
	10	1603	
	11	1563	
	12	1526	
	13	1429	
	14	1466	
	15	1527	
	16	1468	
	17	1472	
	18	1470	
	19	1427	
	20	1454	
	21	1390	
	22	2223	
	23	2462	
	24	2605	
	25	2992	
	26	3125	
	27	3184	
	28	3217	
	29	2301	
	30	2018	
	31		

	Sample Point	006	112
	Description	WLA BOD5 Discharge Compliance	In-Plant Diversion
	Parameter	541	211
	Description	WLA 7 Day Sum Of BOD5 Discharged	Flow Rate
	Units	lbs/day	MGD
Summary Values	Monthly Avg	2135.3	
	Daily Max	3557	
	Daily Max - Variable	3557	
	Daily Min	1390	
	Geometric Mean -		
	Geometric Mean -		
	Week 1 Avg		
	Week 2 Avg		
	Week 3 Avg		
	Week 4 Avg		
Limit(s) in Effect	Monthly Avg		
	Daily Max		
	Daily Max - Variable	0	0
	Daily Min		
	Geometric Mean -		
	Geometric Mean -		
	Weekly Avg		
QA/QC Information	LOD		
	LOQ		
	QC Exceedance	N	
	Lab Certification		

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

I certify that management practices identified in the approved water quality trading plan as the source of pollution reduction credits are installed, established, and properly maintained.

June represents the first month of reported effluent data from samples taken after the effluent disk filters and prior to disinfection.

Laboratory Quality Control Comments

Submitted by mantywwtfsupt2004 on 07/08/2024 12:03:58 PM