

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 Helminger, District Director
Phone Number: 920-766-5731
Reporting Period: 11/01/2024 - 11/30/2024
Form Due Date: 12/21/2024
Permit Number: 0031232

Date Received:	
DOC:	558322
FIN:	6375
FID:	445005220
Region:	Northeast Region
Permit Drafter:	Sarah J Adkins
Reviewer:	Barti Oumarou
Office:	Oshkosh

Sample Point(s) active?

Yes - 701 sample point (Influent)
Yes - 001 sample point (Effluent)
Yes - 101 sample point (Effluent Reuse)
No - 112 sample point (In-Plant Diversion)

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	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	3.010	6.340	170	160	
	2	2.785	5.887	193	192	
	3	4.230	6.929	156	204	
	4	4.974	8.471	160	164	
	5	10.280	13.315	90	144	
	6	7.715	11.262	144	128	<1.3
	7	5.756	8.847	140	136	
	8	4.417	7.580	242	228	
	9	4.025	6.995	198	156	
	10	4.634	7.627	198	204	
	11	4.941	7.340	208	224	
	12	3.585	6.792	261	212	
	13	3.705	6.689	216	232	
	14	3.989	7.006	184	200	
	15	3.452	6.494	165	188	
	16	4.546	6.658	207	168	
	17	4.557	6.975	216	208	
	18	3.877	7.067	222	192	
	19	7.361	10.282	130	116	
	20	6.082	9.094	136	140	
	21	7.459	10.333	126	128	
	22	8.059	10.957	74	100	
	23	6.050	9.178	94	120	
	24	5.644	8.416	133	140	
	25	5.302	8.051	154	152	
	26	5.123	8.036	160	220	
	27	4.815	7.599	184	160	
	28	4.595	7.158	132	188	
	29	4.421	6.655	194	180	
	30	3.766	6.412	177	156	
	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	5.105166667		8.014833333		168.8		171.333333333		0	
	Daily Max	10.28		13.315		261		232		<1.3	
	Daily Min	2.785		5.887		74		100		<1.3	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Min										
	Weekly Avg										
QA/QC Information	LOD									1.3	
	LOQ									5	
	QC Exceedance	N		N		Y		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	12.4	37.1	<5.9	7.5	79.9
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	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	12.4		37.1		0		7.5		79.9	
	Daily Max	12.4		37.1		<5.9		7.5		79.9	
	Daily Min	12.4		37.1		<5.9		7.5		79.9	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Min										
	Weekly Avg										
QA/QC Information	LOD	2.5		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	457	457	1348
	Description	BOD5, Total	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	Units	mg/L	su	mg/L	lbs/day	lbs/month
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	4	7.9	4.0	100	0
	2	4	8.0	3.6	84	0
	3	6	8.0	4.4	155	0
	4	7	7.2	4.4	183	0
	5	7	7.3	3.6	309	0
	6	8	7.5	3.2	206	0
	7	6	7.4	2.4	115	0
	8	4	7.8	3.2	118	0
	9	4	7.3	2.6	87	0
	10	4	7.4	2.8	108	0
	11	4	7.4	3.6	148	0
	12	4	7.3	3.0	90	0
	13	4	7.5	3.2	99	0
	14	4	7.0	3.0	100	0
	15	3	7.3	2.0	58	0
	16	3	7.7	3.2	121	0
	17	4	7.7	3.4	129	0
	18	3	7.3	2.4	78	0
	19	2	7.3	4.6	282	0
	20	3.0	7.4	3.0	152	0
	21	3.2	7.5	2.4	149	0
	22	3.5	7.7	2.4	161	0
	23	2.1	7.4	1.8	91	0
	24	3.7	7.3	1.8	85	0
	25	4.1	7.3	2.6	115	0
	26	4.9	7.4	3.0	128	0
	27	5.3	7.4	1.6	64	0
	28	7.8	7.4	5.4	207	0
	29	5.9	7.2	1.8	66	0
	30	6.6	7.4	2.6	82	0
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		377		457		457		1348	
	Description	BOD5, Total		pH Field		Suspended Solids, Total		Suspended Solids, Total		WQT Credits Used (TSS)	
	Units	mg/L		su		mg/L		lbs/day		lbs/month	
Summary Values	Monthly Avg	4.503333333		7.456666667		3.033333333		129		0	
	Daily Max	8		8		5.4		309		0	
	Daily Min	2		7		1.6		58		0	
	Week 1 Avg	6				3.657142857					
	Week 2 Avg	4				3.057142857					
	Week 3 Avg	3.028571429				3					
	Week 4 Avg	4.485714286				2.657142857					
Limit(s) in Effect	Monthly Avg	30	0			30	0				
	Daily Max			9	0						
	Daily Min			6	0						
	Weekly Avg	45	0			45	0				
QA/QC Information	LOD										
	LOQ										
	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	1347	388	388	789	87
	Description	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable
	Units	lbs/day	mg/L	lbs/day	mg/L	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	100	0.28	7.03		
	2	84	0.29	6.74		
	3	155	0.28	9.88	0.9	
	4	183	0.19	7.88	0.4	
	5	309	0.14	12.00	0.1	
	6	206	0.12	7.72	0.1	<1.3
	7	115	0.10	4.80	0.04	
	8	118	0.16	5.89		
	9	87	0.17	5.71		
	10	108	0.13	5.02	0.2	
	11	148	0.12	4.94	0.2	
	12	90	0.11	3.29	0.2	
	13	99	0.14	4.33	0.2	
	14	100	0.13	4.32	0.3	
	15	58	0.15	4.32		
	16	121	0.13	4.93		
	17	129	0.15	5.70	0.2	
	18	78	0.12	3.88	0.3	
	19	282	0.10	6.14	0.1	
	20	152	0.10	5.07	0.09	
	21	149	0.11	6.84	0.17	
	22	161	0.15	10.08		
	23	91	0.15	7.57		
	24	85	0.15	7.06	0.18	
	25	115	0.13	5.75	0.20	
	26	128	0.15	6.41	0.16	
	27	64	0.14	5.62	0.22	
	28	207	0.16	6.13	0.38	
	29	66	0.11	4.06		
	30	82	0.14	4.40		
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	1347		388		388		789		87	
	Description	WQT Computed Compliance (TSS)		Phosphorus, Total		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable	
	Units	lbs/day		mg/L		lbs/day		mg/L		ug/L	
Summary Values	Monthly Avg	129		0.15		6.117		0.232		0	
	Daily Max	309		0.29		12		0.9		<1.3	
	Daily Min	58		0.1		3.29		0.04		<1.3	
	Week 1 Avg	164.571428571						0.308			
	Week 2 Avg	107.142857143						0.22			
	Week 3 Avg	138.428571429						0.172			
	Week 4 Avg	121.571428571						0.228			
Limit(s) in Effect	Monthly Avg	801	0	1	0			18	0		
	Daily Max							17	0		
	Daily Min										
	Weekly Avg	1345	0					17	0		
QA/QC Information	LOD			0.026				0.027		1.3	
	LOQ			0.087				0.09		5	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			445005220				445005220		405132750	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	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	<2.5	<3.4	<5.9	<2.6	<11.6
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	30					
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	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	0		0		0		0		0	
	Daily Max	<2.5		<3.4		<5.9		<2.6		<11.6	
	Daily Min	<2.5		<3.4		<5.9		<2.6		<11.6	
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Min										
	Weekly Avg										
QA/QC Information	LOD	2.5		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	101
	Description	Effluent Reuse
	Parameter	671
	Description	Flow Unregulated
	Units	MGD
	Sample Type	CONTINUOUS
	Frequency	DAILY
Sample Results	Day 1	3.330
	2	3.102
	3	2.699
	4	3.497
	5	3.035
	6	3.547
	7	3.091
	8	3.163
	9	2.970
	10	2.993
	11	2.399
	12	3.207
	13	2.984
	14	3.017
	15	3.042
	16	2.112
	17	2.418
	18	3.190
	19	2.921
	20	3.012
	21	2.874
	22	2.898
	23	3.128
	24	2.772
	25	2.749
	26	2.913
	27	2.784
	28	2.563
	29	2.234
	30	2.646
	31	

	Sample Point	101	
	Description	Effluent Reuse	
	Parameter	671	
	Description	Flow Unregulated	
	Units	MGD	
Summary Values	Monthly Avg	2.909666667	
	Daily Max	3.547	
	Daily Min	2.112	
	Week 1 Avg		
	Week 2 Avg		
	Week 3 Avg		
	Week 4 Avg		
Limit(s) in Effect	Monthly Avg		
	Daily Max		
	Daily Min		
	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

Laboratory Quality Control Comments

BOD Blank 11/3/24 Exceeded Limit with 0.26 mg/L

Submitted by mantywwtfsupt2004 on 12/19/2024 7:02:10 AM