

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: 09/01/2025 - 09/30/2025
Form Due Date: 10/21/2025
Permit Number: 0031232

Date Received:	
DOC:	577225
FIN:	6375
FID:	445005220
Region:	Northeast Region
Permit Drafter:	Jennifer K Jerich
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)
Yes - 601 sample point (River Monitoring)
Yes - 006 sample point (WLA BOD5 Discharge Compliance)
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	2.491	5.929	196	220	
	2	2.033	5.751	229	204	0.4
	3	2.676	5.871	236	244	
	4	2.952	5.853	234	228	
	5	3.692	5.828	232	204	
	6	3.121	5.219	193	196	
	7	1.745	5.257	282	224	
	8	1.832	5.070	217	252	
	9	1.680	5.351	222	240	
	10	1.475	5.068	261	188	
	11	1.785	5.072	228	176	
	12	1.461	4.990	240	220	
	13	2.054	5.477	194	192	
	14	1.728	5.553	216	216	
	15	2.310	5.471	222	232	
	16	1.470	5.320	248	224	
	17	1.258	5.187	304	232	
	18	1.624	5.250	240	248	
	19	1.474	5.011	232	216	
	20	1.832	5.340	200	184	
	21	2.246	5.833	244	212	
	22	2.692	6.351	190	200	
	23	2.638	6.098	231	220	
	24	2.766	6.061	250	188	
	25	2.073	5.762	222	188	
	26	2.148	5.524	240	212	
	27	1.459	5.146	200	176	
	28	2.066	5.393	214	192	
	29	2.212	5.408	192	132	
	30	5.270	5.270	250	164	
	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	2.208766667	5.490466667	228.633333333	207.466666667	0.4
	Daily Max	5.27	6.351	304	252	0.4
	Daily Max - Variable					
	Daily Min	1.258	4.99	190	132	0.4
	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					0.3
	LOQ					1
	QC Exceedance	N	N	Y	N	N
	Lab Certification			445005220	445005220	445023150

	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	3.9	75	3.5	11	172
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
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	21					
	22					
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	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	3.9	75	3.5	11	172
	Daily Max	3.9	75	3.5	11	172
	Daily Max - Variable					
	Daily Min	3.9	75	3.5	11	172
	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	0.8	3.5	1.3	4.3
	LOQ	4.3	2.7	12	4.3	14
	QC Exceedance	N	N	N	N	N
	Lab Certification	445023150	445023150	445023150	445023150	445023150

	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	7	7.9		<100	4.6
	2	6	7.7		<100	8.5
	3	7	7.7	20	<100	10.8
	4	6	8.2		<100	14.0
	5	6	7.8		<100	6.5
	6	7	7.8			8.5
	7	8	7.7			8.4
	8	3	7.8		<100	6.4
	9	7	7.6		<100	5.4
	10	11	7.4	117	<100	8.4
	11	10	7.5		<100	6.6
	12	10	7.2		<100	8.8
	13	8	8.2			5.2
	14	6	8.2			4.8
	15	6	7.7		<100	7.6
	16	6	7.7	28	<100	6.8
	17	8	7.8		<100	9.6
	18	6	7.8		<100	8.0
	19	5	8.0		<100	5.8
	20	5	7.8			4.8
	21	5	7.5			4.4
	22	4	7.8		<100	10.0
	23	8	7.8	0	<100	10.0
	24	5	7.7		<100	6.8
	25	5	7.8		<100	6.4
	26	6	7.8		<100	6.0
	27	7	7.8			8.8
	28	6	7.8			9.4
	29	6	7.5		<100	9.4
	30	8	8.2		<100	22.0
	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	6.6		7.773333333		41.25		0		8.09	
	Daily Max	11		8.2		117		<100		22	
	Daily Max - Variable										
	Daily Min	3		7.2		0		<100		4.4	
	Geometric Mean -					15.999023348					
	Geometric Mean -					1					
	Week 1 Avg	6.714285714								8.757142857	
	Week 2 Avg	7.857142857								6.514285714	
	Week 3 Avg	5.857142857								6.714285714	
	Week 4 Avg	5.857142857								8.2	
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	96	0	96	0.38	7.89
	2	144	0	144	0.27	4.58
	3	241	0	241	0.25	5.58
	4	345	0	345	0.28	6.89
	5	200	0	200	0.38	11.70
	6	221	0	221	0.47	12.23
	7	122	0	122	0.72	10.48
	8	98	0	98	0.39	5.96
	9	76	0	76	0.25	3.50
	10	103	0	103	0.28	3.44
	11	98	0	98	0.26	3.87
	12	107	0	107	0.37	4.51
	13	89	0	89	0.40	6.85
	14	69	0	69	0.34	4.90
	15	146	0	146	0.26	5.01
	16	83	0	83	0.26	3.19
	17	101	0	101	0.27	2.83
	18	108	0	108	0.25	3.39
	19	71	0	71	0.30	3.69
	20	73	0	73	0.39	5.96
	21	82	0	82	0.38	7.12
	22	225	0	225	0.27	6.06
	23	220	0	220	0.36	7.92
	24	157	0	157	0.33	7.61
	25	111	0	111	0.31	5.36
	26	107	0	107	0.43	7.70
	27	107	0	107	0.42	5.11
	28	162	0	162	0.43	7.41
	29	173	0	173	0.37	6.83
	30	967	0	967	0.81	35.60
	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	163.4	0	163.4	0.362666667	7.105666667	
	Daily Max	967	0	967	0.81	35.6	
	Daily Max - Variable						
	Daily Min	69	0	69	0.25	2.83	
	Geometric Mean -						
	Geometric Mean -						
	Week 1 Avg			195.571428571			
	Week 2 Avg			91.428571429			
	Week 3 Avg			94.857142857			
	Week 4 Avg			155.571428571			
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		Y	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	0.11				
	2	0.23	<0.3	<1.3	4.9	<3.5
	3	0.35				
	4	0.21				
	5					
	6					
	7	0.47				
	8	0.30				
	9	0.69				
	10	0.31				
	11	0.23				
	12					
	13					
	14	0.21				
	15	0.24				
	16	0.20				
	17	0.25				
	18	0.28				
	19					
	20					
	21	0.21				
	22	0.19				
	23	0.35				
	24	0.34				
	25	0.24				
	26					
	27					
	28	0.21				
	29	0.18				
	30	0.32				
	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	0.278181818	0	0	4.9	0
	Daily Max	0.69	<0.3	<1.3	4.9	<3.5
	Daily Max - Variable					
	Daily Min	0.11	<0.3	<1.3	4.9	<3.5
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg	0.274				
	Week 2 Avg	0.348				
	Week 3 Avg	0.236				
	Week 4 Avg	0.266				
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	0.3	1.3	0.8	3.5
	LOQ	0.09	1	4.3	2.7	12
	QC Exceedance	N	N	N	N	N
	Lab Certification	445005220	445023150	445023150	445023150	445023150

	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			3.438	2650	2748
	2	8.0	15	3.718	1960	2698
	3			3.195	1950	2515
	4			2.901	1920	2315
	5			2.136	2000	2120
	6			2.098	1830	1958
	7			3.512	1780	1925
	8			3.238	1600	1883
	9			3.671	1690	1803
	10			3.593	1620	1725
	11			3.287	1590	1673
	12			3.529	1650	1625
	13			3.423	1750	1638
	14			3.625	1740	1653
	15			3.161	1730	1683
	16			3.850	1740	1718
	17			3.929	1760	1740
	18			3.626	1730	1718
	19			3.537	1730	1718
	20			3.508	1730	1718
	21			3.587	1850	1715
	22			3.659	2880	1738
	23			3.460	3260	2028
	24			3.295	3200	2430
	25			3.689	3230	2798
	26			3.376	3240	3143
	27			3.687	3200	3233
	28			3.327	3160	3218
	29			3.196	3150	3208
	30			0	3170	3188
	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	8	15	3.275033333	2216.333333333	2175.766666667
	Daily Max	8	15	3.929	3260	3233
	Daily Max - Variable					
	Daily Min	8	15	0	1590	1625
	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	4.3			
	LOQ	4.3	14			
	QC Exceedance	N	N	N	N	N
	Lab Certification	445023150	445023150			

	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	71	1994	2752	149	18174
	2	71	1994	2752	106	17303
	3	72	1994	2752	148	16432
	4	71	1827	2521	137	15673
	5	68	1845	2546	188	14932
	6	64	1860	2567	173	14153
	7	63	1860	2567	112	13374
	8	62	1860	2567	53	13240
	9	63	1860	2567	96	13106
	10	64	1645	2270	139	12757
	11	65	1645	2270	145	12575
	12	65	1645	2270	121	12375
	13	66	1478	2040	145	11993
	14	67	1478	2040	91	11611
	15	69	1478	2040	125	11229
	16	71	1347	1859	73	10716
	17	72	1347	1859	84	10418
	18	73	1347	1859	79	9691
	19	73	1347	1859	79	9691
	20	73	1347	1859	79	9691
	21	73	1347	1859	97	9560
	22	72	1347	1859	97	9429
	23	72	1676	2313	185	9758
	24	71	1827	2521	120	10238
	25	70	2160	2981	86	11051
	26	70	2456	3389	99	12160
	27	69	2761	3810	81	13574
	28	68	2456	3389	101	14683
	29	69	2761	3810	110	16097
	30	69	2761	3810	360	17182
	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	68.866666667	1825	2518.566666667	121.933333333	12762.2
	Daily Max	73	2761	3810	360	18174
	Daily Max - Variable				360	
	Daily Min	62	1347	1859	53	9429
	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
	Description	WLA BOD5 Discharge Compliance
	Parameter	541
	Description	WLA 7 Day Sum Of BOD5 Discharged
	Units	lbs/day
	Sample Type	CALCULATED
	Frequency	DAILY
Sample Results	Day 1	1171
	2	1183
	3	1123
	4	1044
	5	983
	6	1033
	7	1013
	8	917
	9	907
	10	898
	11	906
	12	838
	13	811
	14	789
	15	861
	16	839
	17	784
	18	598
	19	598
	20	598
	21	605
	22	577
	23	689
	24	725
	25	732
	26	764
	27	766
	28	769
	29	782
	30	956
	31	

	Sample Point	006	
	Description	WLA BOD5 Discharge Compliance	
	Parameter	541	
	Description	WLA 7 Day Sum Of BOD5 Discharged	
	Units	lbs/day	
Summary Values	Monthly Avg	841.966666667	
	Daily Max	1183	
	Daily Max - Variable	1183	
	Daily Min	577	
	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

Laboratory Quality Control Comments

9-4 BOD GGA of 165.1	9-1 TP Blank = 0.028 (Exceeds 0.026)
9-15 BOD Blank =0.25	9-29 CL Residual of 0.05
9-24 BOD Blank =0.37	
9-25 BOD Blank =0.25	
9-29 BOD Blank = 0.27	

Submitted by Brian Helminger on 10/08/2025 11:23:54 AM