

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: 05/01/2025 - 05/31/2025
Form Due Date: 06/21/2025
Permit Number: 0031232

Date Received:	
DOC:	570879
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	12.726	12.726	119	140	
	2	13.512	13.512	107	76	
	3	11.017	11.017	116	104	
	4	10.104	10.104	150	152	
	5	9.285	9.285	133	268	
	6	8.460	8.460	173	156	<0.3
	7	7.952	7.952	160	156	
	8	7.730	7.730	164	196	
	9	7.288	7.288	173	152	
	10	7.351	7.351	176	120	
	11	7.051	7.051	186	76	
	12	6.891	6.891	197	196	
	13	6.897	6.897	219	208	
	14	6.628	6.628	212	176	
	15	6.522	6.522	214	204	
	16	6.654	6.654	139	188	
	17	6.538	6.538	146	160	
	18	6.570	6.570	222	176	
	19	6.401	7.008	212	192	
	20	7.008	7.008	180	160	
	21	10.023	10.023	214	176	
	22	7.567	7.567	166	172	
	23	7.306	7.306	179	148	
	24	7.017	7.017	130	144	
	25	6.572	6.572	184	136	
	26	7.008	7.008	166	176	
	27	6.663	6.663	226	192	
	28	6.744	6.744	<60	156	
	29	5.898	7.250	174	184	
	30	6.170	6.788	191	196	
	31	3.392	6.595	178	92	

	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	7.643387097	7.82983871	167.935483871	162.193548387	0
	Daily Max	13.512	13.512	226	268	<0.3
	Daily Max - Variable					
	Daily Min	3.392	6.522	<60	76	<0.3
	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					0.3
	LOQ					1
	QC Exceedance	N	N	N	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					
	4					
	5					
	6	4.3	54	<3.5	7.4	91
	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	4.3		54		0		7.4		91	
	Daily Max	4.3		54		<3.5		7.4		91	
	Daily Max - Variable										
	Daily Min	4.3		54		<3.5		7.4		91	
	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		2.2	
	LOQ	4.3		2.7		12		4.3		7.3	
	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	3	7.2	10	<100	3.8
	2	2	7.4		<100	<2.0
	3	3	7.8			2.6
	4	3	7.8			2.6
	5	<2.0	7.5		<100	6.0
	6	3	7.2		<100	3.8
	7	5	7.5		<100	5.2
	8	4	7.4	5	<100	4.6
	9	7	7.4		<100	6.0
	10	8	7.6			3.8
	11	9	7.5			7.2
	12	11	7.3		<100	9.2
	13	10	7.5		<100	7.4
	14	8	7.3		<100	6.0
	15	8	7.3	9	<100	4.8
	16	7	7.4		<100	3.8
	17	5	7.5			3.8
	18	7	7.6			5.0
	19	5	7.4		<100	12.8
	20	4	7.4		<100	7.2
	21	4	7.3		<100	6.0
	22	4	7.3	13	<100	3.6
	23	3	7.5		<100	3.6
	24	3	7.8			4.8
	25	2	7.7			2.6
	26	3	7.8		<100	3.4
	27	4	7.4		<100	3.2
	28	5	7.4		<100	3.6
	29	6	7.4		<100	4.4
	30	6	7.5		<100	4.2
	31	6	7.3			3.6

	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	5.096774194		7.464516129		9.25		0		4.793548387	
	Daily Max	11		7.8		13		<100		12.8	
	Daily Max - Variable										
	Daily Min	<2		7.2		5		<100		<2	
	Geometric Mean -					8.745587042					
	Geometric Mean -					9					
	Week 1 Avg	2.714285714								3.428571429	
	Week 2 Avg	8.142857143								6.314285714	
	Week 3 Avg	5.714285714								6.2	
	Week 4 Avg	3.428571429								3.542857143	
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	403	0	403	0.12	12.74
	2	203	0	203	0.10	11.27
	3	239	0	239	0.12	11.03
	4	219	0	219	0.09	7.58
	5	465	0	465	0.25	19.36
	6	268	0	268	0.15	10.58
	7	345	0	345	0.23	15.25
	8	297	0	297	0.20	12.89
	9	365	0	365	0.26	15.80
	10	233	0	233	0.29	17.78
	11	423	0	423	0.31	18.23
	12	529	0	529	0.33	18.97
	13	426	0	426	0.35	20.13
	14	332	0	332	0.19	10.50
	15	261	0	261	0.35	19.04
	16	211	0	211	0.27	14.98
	17	207	0	207	0.20	10.91
	18	274	0	274	0.19	10.41
	19	683	0	683	0.14	7.47
	20	421	0	421	0.12	7.01
	21	502	0	502	0.16	13.37
	22	227	0	227	0.15	9.47
	23	219	0	219	0.17	10.36
	24	281	0	281	0.12	7.02
	25	143	0	143	0.11	6.03
	26	199	0	199	0.12	7.01
	27	178	0	178	0.20	11.11
	28	202	0	202	0.26	14.62
	29	216	0	216	0.25	12.30
	30	216	0	216	0.19	9.78
	31	102	0	102	0.19	5.37

	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	299.64516129		0		299.64516129		0.199354839		12.205483871	
	Daily Max	683		0		683		0.35		20.13	
	Daily Max - Variable										
	Daily Min	102		0		102		0.09		5.37	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg					306					
	Week 2 Avg					372.142857143					
	Week 3 Avg					365.571428571					
	Week 4 Avg					207					
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	
	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	0.1				
	2					
	3					
	4	0.1				
	5	<0.027				
	6	0.4	<0.3	<1.3	4.7	<3.5
	7	0.4				
	8	0.3				
	9					
	10					
	11	0.4				
	12	0.4				
	13	0.3				
	14	0.1				
	15	0.4				
	16					
	17					
	18	0.1				
	19	0.2				
	20	0.1				
	21	0.1				
	22	0.1				
	23					
	24					
	25	0.1				
	26	0.1				
	27	0.3				
	28	0.4				
	29	0.3				
	30					
	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	0.223809524		0		0		4.7		0	
	Daily Max	0.4		<0.3		<1.3		4.7		<3.5	
	Daily Max - Variable										
	Daily Min	<0.027		<0.3		<1.3		4.7		<3.5	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg	0.2									
	Week 2 Avg	0.3									
	Week 3 Avg	0.18									
	Week 4 Avg	0.2									
Limit(s) in Effect	Monthly Avg	11	0								
	Daily Max	17	0								
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg	17	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			0	6240	5655
	2			0	7030	5693
	3			0	7040	6020
	4			0	7040	6425
	5			0	7390	6838
	6	4.5	15	0	8030	7125
	7			0	7970	7375
	8			0	7800	7608
	9			0	7890	7798
	10			0	7980	7923
	11			0	7900	7910
	12			0	7470	7893
	13			0	6980	7810
	14			0	6490	7583
	15			0	6010	7210
	16			0	6310	6738
	17			0	6200	6448
	18			0	6090	6253
	19			0	5710	6153
	20			0	5260	6078
	21			0	4990	5815
	22			1.329	4990	5513
	23			0.743	5000	5238
	24			0	5000	5060
	25			0	5000	4995
	26			0	4990	4998
	27			0	5010	4998
	28			0	5010	5000
	29			1.352	5010	5003
	30			0.618	5380	5005
	31			3.203	5020	5103

	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	4.5	15	0.233709677	6265.483870968	6298.838709677
	Daily Max	4.5	15	3.203	8030	7923
	Daily Max - Variable					
	Daily Min	4.5	15	0	4990	4995
	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	2.2			
	LOQ	4.3	7.3			
	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	55	5568	7684	347	33408
	2	54	5568	7684	275	38976
	3	53	5568	7684	274	38976
	4	53	5568	7684	239	38976
	5	55	5568	7684	155	38976
	6	56	5568	7684	229	38976
	7	59	5568	7684	327	38976
	8	60	5568	7684	289	38976
	9	58	5568	7684	418	38976
	10	58	5568	7684	503	38976
	11	60	5568	7684	543	38976
	12	60	5568	7684	603	38976
	13	62	5568	7684	581	38976
	14	63	5568	7684	427	38976
	15	67	5568	7684	449	38976
	16	70	5568	7684	386	38976
	17	69	5568	7684	276	38976
	18	66	5568	7684	359	38976
	19	64	5568	7684	283	38976
	20	62	5568	7684	231	38976
	21	59	5568	7684	371	38976
	22	56	5568	7684	261	38976
	23	57	5568	7684	174	38976
	24	58	5568	7684	175	38976
	25	58	5568	7684	134	38976
	26	60	5568	7684	177	38976
	27	62	5568	7684	230	38976
	28	64	4735	6534	258	38143
	29	64	5568	7684	310	38143
	30	63	5568	7684	316	38143
	31	64	5568	7684	156	38143

	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	60.290322581		5541.129032258		7646.903225806		314.709677419		38688.903225806	
	Daily Max	70		5568		7684		603		38976	
	Daily Max - Variable							603			
	Daily Min	53		4735		6534		134		33408	
	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	1996
	2	2005
	3	2003
	4	1940
	5	1805
	6	1763
	7	1846
	8	1787
	9	1931
	10	2160
	11	2464
	12	2912
	13	3264
	14	3365
	15	3525
	16	3493
	17	3266
	18	3083
	19	2762
	20	2413
	21	2356
	22	2169
	23	1956
	24	1855
	25	1629
	26	1523
	27	1522
	28	1409
	29	1458
	30	1600
	31	1581

	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	2220.677419355	
	Daily Max	3525	
	Daily Max - Variable	3525	
	Daily Min	1409	
	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

5/5 Effluent BOD under depleted.
5/28 Influent BOD under depleted.
5/05 Effluent Ammonia was less than the detection limit of 0.027

Submitted by mantywwtfsupt2004 on 06/18/2025 8:30:34 AM