

## 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: 12/01/2024 - 12/31/2024  
Form Due Date: 01/21/2025  
Permit Number: 0031232

Date Received:	
DOC:	558323
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	3.742	6.537	215	184	
	2	3.151	6.124	220	200	
	3	2.855	6.160	232	188	<1.3
	4	3.355	6.158	220	188	
	5	3.267	5.962	230	204	
	6	2.850	5.787	239	172	
	7	3.114	5.722	232	184	
	8	3.563	5.914	298	264	
	9	3.649	5.776	226	200	
	10	2.577	5.590	232	244	
	11	2.564	5.395	238	256	
	12	2.435	5.408	246	208	
	13	2.753	5.592	259	216	
	14	2.740	5.441	246	248	
	15	2.721	5.845	269	232	
	16	2.449	5.579	215	240	
	17	3.023	5.512	271	276	
	18	2.254	5.356	248	236	
	19	2.570	5.542	314	228	
	20	2.529	5.162	244	204	
	21	2.201	5.249	253	268	
	22	2.320	5.228	254	264	
	23	2.200	5.217	221	236	
	24	2.511	5.405	269	232	
	25	2.305	4.930	245	224	
	26	2.332	5.227	266	232	
	27	3.966	6.582	218	268	
	28	6.071	8.858	119	116	
	29	5.002	7.972	158	116	
	30	4.713	7.322	211	176	
	31	4.546	7.000	268	220	

	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
<b>Summary Values</b>	<b>Monthly Avg</b>	3.107354839	5.921032258	237.935483871	216.903225806	0
	<b>Daily Max</b>	6.071	8.858	314	276	<1.3
	<b>Daily Min</b>	2.2	4.93	119	116	<1.3
	<b>Week 1 Avg</b>					
	<b>Week 2 Avg</b>					
	<b>Week 3 Avg</b>					
	<b>Week 4 Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>					1.3
	<b>LOQ</b>					5
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>			445005220	445005220	405132750

	<b>Sample Point</b>	701	701	701	701	701
	<b>Description</b>	Influent	Influent	Influent	Influent	Influent
	<b>Parameter</b>	133	147	264	315	553
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>	2.7	52.6	<5.9	7.0	93.5
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	<b>Sample Point</b>	701		701		701		701		701	
	<b>Description</b>	Influent		Influent		Influent		Influent		Influent	
	<b>Parameter</b>	133		147		264		315		553	
	<b>Description</b>	Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable	
	<b>Units</b>	ug/L		ug/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	2.7		52.6		0		7		93.5	
	<b>Daily Max</b>	2.7		52.6		<5.9		7		93.5	
	<b>Daily Min</b>	2.7		52.6		<5.9		7		93.5	
	<b>Week 1 Avg</b>										
	<b>Week 2 Avg</b>										
	<b>Week 3 Avg</b>										
	<b>Week 4 Avg</b>										
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>										
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Weekly Avg</b>										
<b>QA/QC Information</b>	<b>LOD</b>	2.5		3.4		5.9		2.6		11.6	
	<b>LOQ</b>	10		10		20		10		40	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	405132750		405132750		405132750		405132750		405132750	

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	66	377	457	457	1348
	<b>Description</b>	BOD5, Total	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	<b>Units</b>	mg/L	su	mg/L	lbs/day	lbs/month
	<b>Sample Type</b>	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED	CALCULATED
	<b>Frequency</b>	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	7	7.4	3.0	94	0
	<b>2</b>	8	7.6	5.0	131	0
	<b>3</b>	7	7.7	3.0	71	0
	<b>4</b>	7	7.7	4.0	112	0
	<b>5</b>	7	7.7	5.4	147	0
	<b>6</b>	8	7.6	5.0	119	0
	<b>7</b>	7	7.5	5.0	130	0
	<b>8</b>	7	7.6	6.8	202	0
	<b>9</b>	6	7.4	6.8	207	0
	<b>10</b>	5	7.8	7.2	155	0
	<b>11</b>	6	7.7	8.8	188	0
	<b>12</b>	5	7.7	4.8	97	0
	<b>13</b>	6	7.8	6.4	147	0
	<b>14</b>	6	7.5	4.4	101	0
	<b>15</b>	5	7.5	5.8	132	0
	<b>16</b>	5	7.7	6.2	127	0
	<b>17</b>	5	7.8	7.2	182	0
	<b>18</b>	10	7.6	6.8	128	0
	<b>19</b>	5	7.6	5.0	107	0
	<b>20</b>	5	7.8	4.2	89	0
	<b>21</b>	5	7.3	4.6	84	0
	<b>22</b>	4	7.4	4.2	81	0
	<b>23</b>	6	7.8	5.2	95	0
	<b>24</b>	5	7.8	4.8	101	0
	<b>25</b>	7	7.7	7.4	142	0
	<b>26</b>	6	7.4	6.2	121	0
	<b>27</b>	6	7.4	5.8	192	0
	<b>28</b>	5	7.9	5.6	284	0
	<b>29</b>	4	7.8	4.0	167	0
	<b>30</b>	5	8.0	5.2	204	0
	<b>31</b>	5	7.3	4.0	152	0

	<b>Sample Point</b>	001		001		001		001		001	
	<b>Description</b>	Effluent		Effluent		Effluent		Effluent		Effluent	
	<b>Parameter</b>	66		377		457		457		1348	
	<b>Description</b>	BOD5, Total		pH Field		Suspended Solids, Total		Suspended Solids, Total		WQT Credits Used (TSS)	
	<b>Units</b>	mg/L		su		mg/L		lbs/day		lbs/month	
<b>Summary Values</b>	<b>Monthly Avg</b>	5.967741935		7.629032258		5.412903226		138.35483871		0	
	<b>Daily Max</b>	10		8		8.8		284		0	
	<b>Daily Min</b>	4		7.3		3		71		0	
	<b>Week 1 Avg</b>	7.285714286				4.342857143					
	<b>Week 2 Avg</b>	5.857142857				6.457142857					
	<b>Week 3 Avg</b>	5.714285714				5.685714286					
	<b>Week 4 Avg</b>	5.571428571				5.6					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	30	0			30	0				
	<b>Daily Max</b>			9	0						
	<b>Daily Min</b>			6	0						
	<b>Weekly Avg</b>	45	0			45	0				
<b>QA/QC Information</b>	<b>LOD</b>										
	<b>LOQ</b>										
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	445005220				445005220					

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	1347	388	388	789	87
	<b>Description</b>	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable
	<b>Units</b>	lbs/day	mg/L	lbs/day	mg/L	ug/L
	<b>Sample Type</b>	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	94	0.11	3.43	0.2	
	<b>2</b>	131	0.15	3.94	0.3	
	<b>3</b>	71	0.14	3.33	0.2	<1.3
	<b>4</b>	112	0.13	3.64	0.2	
	<b>5</b>	147	0.14	3.81	0.2	
	<b>6</b>	119	0.19	4.52		
	<b>7</b>	130	0.16	4.16		
	<b>8</b>	202	0.17	5.05	0.3	
	<b>9</b>	207	0.23	7.00	0.5	
	<b>10</b>	155	0.16	3.44	0.4	
	<b>11</b>	188	0.17	3.64	0.4	
	<b>12</b>	97	0.14	2.84	0.3	
	<b>13</b>	147	0.19	4.36		
	<b>14</b>	101	0.19	4.34		
	<b>15</b>	132	0.15	3.40	0.5	
	<b>16</b>	127	0.13	2.66	0.4	
	<b>17</b>	182	0.16	4.03	0.4	
	<b>18</b>	128	0.19	3.57	0.3	
	<b>19</b>	107	0.16	3.43	0.5	
	<b>20</b>	89	0.16	3.37		
	<b>21</b>	84	0.19	3.49		
	<b>22</b>	81	0.15	2.90	0.1	
	<b>23</b>	95	0.20	3.67	0.7	
	<b>24</b>	101	0.19	3.98	0.5	
	<b>25</b>	142	0.28	5.38	0.8	
	<b>26</b>	121	0.25	4.86	0.9	
	<b>27</b>	192	0.25	8.27		
	<b>28</b>	284	0.19	9.62		
	<b>29</b>	167	0.14	5.84	0.1	
	<b>30</b>	204	0.17	6.68	0.1	
	<b>31</b>	152	0.13	4.93		

	<b>Sample Point</b>	001		001		001		001		001	
	<b>Description</b>	Effluent		Effluent		Effluent		Effluent		Effluent	
	<b>Parameter</b>	1347		388		388		789		87	
	<b>Description</b>	WQT Computed Compliance (TSS)		Phosphorus, Total		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable	
	<b>Units</b>	lbs/day		mg/L		lbs/day		mg/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	138.35483871		0.172903226		4.438064516		0.377272727		0	
	<b>Daily Max</b>	284		0.28		9.62		0.9		<1.3	
	<b>Daily Min</b>	71		0.11		2.66		0.1		<1.3	
	<b>Week 1 Avg</b>	114.857142857						0.22			
	<b>Week 2 Avg</b>	156.714285714						0.38			
	<b>Week 3 Avg</b>	121.285714286						0.42			
	<b>Week 4 Avg</b>	145.142857143						0.6			
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	801	0	1	0			18	0		
	<b>Daily Max</b>							17	0		
	<b>Daily Min</b>										
	<b>Weekly Avg</b>	1345	0					17	0		
<b>QA/QC Information</b>	<b>LOD</b>			0.026				0.027		1.3	
	<b>LOQ</b>			0.087				0.09		5	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>			445005220				445005220		405132750	

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	133	147	264	315	553
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>	<2.5	4.8	<5.9	5.9	16.5
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	133	147	264	315	553
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	0	4.8	0	5.9	16.5
	<b>Daily Max</b>	<2.5	4.8	<5.9	5.9	16.5
	<b>Daily Min</b>	<2.5	4.8	<5.9	5.9	16.5
	<b>Week 1 Avg</b>					
	<b>Week 2 Avg</b>					
	<b>Week 3 Avg</b>					
	<b>Week 4 Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>	1.3	3.4	5.9	2.6	11.6
	<b>LOQ</b>	5	10	20	10	40
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750	405132750	405132750	405132750	405132750

	<b>Sample Point</b>	101
	<b>Description</b>	Effluent Reuse
	<b>Parameter</b>	671
	<b>Description</b>	Flow Unregulated
	<b>Units</b>	MGD
	<b>Sample Type</b>	CONTINUOUS
	<b>Frequency</b>	DAILY
<b>Sample Results</b>	<b>Day 1</b>	2.795
	<b>2</b>	2.973
	<b>3</b>	3.305
	<b>4</b>	2.803
	<b>5</b>	2.695
	<b>6</b>	2.937
	<b>7</b>	2.608
	<b>8</b>	2.351
	<b>9</b>	2.127
	<b>10</b>	3.013
	<b>11</b>	2.831
	<b>12</b>	2.973
	<b>13</b>	2.839
	<b>14</b>	2.701
	<b>15</b>	3.124
	<b>16</b>	3.130
	<b>17</b>	2.489
	<b>18</b>	3.102
	<b>19</b>	2.972
	<b>20</b>	2.633
	<b>21</b>	3.048
	<b>22</b>	2.908
	<b>23</b>	3.017
	<b>24</b>	2.894
	<b>25</b>	2.625
	<b>26</b>	2.895
	<b>27</b>	2.616
	<b>28</b>	2.787
	<b>29</b>	2.97
	<b>30</b>	2.609
	<b>31</b>	2.454

	<b>Sample Point</b>	101	
	<b>Description</b>	Effluent Reuse	
	<b>Parameter</b>	671	
	<b>Description</b>	Flow Unregulated	
	<b>Units</b>	MGD	
<b>Summary Values</b>	<b>Monthly Avg</b>	2.813677419	
	<b>Daily Max</b>	3.305	
	<b>Daily Min</b>	2.127	
	<b>Week 1 Avg</b>		
	<b>Week 2 Avg</b>		
	<b>Week 3 Avg</b>		
	<b>Week 4 Avg</b>		
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>		
	<b>Daily Max</b>		
	<b>Daily Min</b>		
	<b>Weekly Avg</b>		
<b>QA/QC Information</b>	<b>LOD</b>		
	<b>LOQ</b>		
	<b>QC Exceedance</b>	N	
	<b>Lab Certification</b>		

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

None

Submitted by Brian Helminger(mantyywwtfsupt2004) on 1/7/2025 8:52:01 AM