

**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: 12/01/2022 - 12/31/2022  
 Form Due Date: 01/21/2023  
 Permit Number: 0031232

Date Received:  
 DOC: 503644  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Sarah J Adkins  
 Reviewer: Barti Oumarou  
 Office: Oshkosh

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	5.066	2.230	306	272	
	2	5.311	2.974	283	216	
	3	5.149	2.532	274	200	
	4	5.332	2.365	278	196	
	5	5.158	2.142	309	248	
	6	4.723	1.922	359	224	
	7	4.864	2.062	366	208	<1.3
	8	4.851	2.080	327	232	
	9	4.795	2.542	378	204	
	10	4.801	1.698	320	196	
	11	5.118	2.170	350	208	
	12	4.956	2.394	318	188	
	13	4.826	2.780	368	220	
	14	5.840	3.380	271	212	
	15	6.780	4.215	250	184	
	16	6.512	3.944	209	156	
	17	6.012	3.442	258	148	
	18	6.104	3.524	388	152	
	19	5.592	2.844	253	204	
	20	5.288	2.696	294	188	
	21	5.388	3.089	283	180	
	22	5.272	3.562	265	130	
	23	5.616	3.616	268	184	
	24	5.350	3.466	262	232	
	25	4.598	2.720	262	180	
	26	5.080	3.231	303	256	
	27	5.023	2.658	297	248	
	28	4.930	2.891	290	220	
	29	6.405	3.982	284	160	
	30	8.826	6.918	216	152	
	31	7.478	4.946	268	220	

	<b>Sample Point</b>	701	001	701	701	701
	<b>Description</b>	Influent	Effluent	Influent	Influent	Influent
	<b>Parameter</b>	211	211	66	457	87
	<b>Description</b>	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	<b>Units</b>	MGD	MGD	mg/L	mg/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	5.517548387	3.065	295.387096774	200.580645161	0
	<b>Daily Max</b>	8.826	6.918	388	272	<1.3
	<b>Daily Min</b>	4.598	1.698	209	130	<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	Y	N	N
	<b>Lab Certification</b>			445005220	445005220	405132750

	<b>Sample Point</b>	701	701	701	001	701
	<b>Description</b>	Influent	Influent	Influent	Effluent	Influent
	<b>Parameter</b>	133	147	264	66	315
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	mg/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	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>				10	
	<b>2</b>				9	
	<b>3</b>				10	
	<b>4</b>				13	
	<b>5</b>				11	
	<b>6</b>				9	
	<b>7</b>	11.0	80.6	<5.9	12	8.1
	<b>8</b>				9	
	<b>9</b>				9	
	<b>10</b>				10	
	<b>11</b>				10	
	<b>12</b>				7	
	<b>13</b>				9	
	<b>14</b>				11	
	<b>15</b>				11	
	<b>16</b>				8	
	<b>17</b>				8	
	<b>18</b>				10	
	<b>19</b>				11	
	<b>20</b>				9	
	<b>21</b>				10	
	<b>22</b>				9	
	<b>23</b>				11	
	<b>24</b>				11	
	<b>25</b>				10	
	<b>26</b>				11	
	<b>27</b>				11	
	<b>28</b>				13	
	<b>29</b>				10	
	<b>30</b>				9	
	<b>31</b>				8	

	<b>Sample Point</b>	701	701	701	001	701
	<b>Description</b>	Influent	Influent	Influent	Effluent	Influent
	<b>Parameter</b>	133	147	264	66	315
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	mg/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	11	80.6	0	9.967741935	8.1
	<b>Daily Max</b>	11	80.6	<5.9	13	8.1
	<b>Daily Min</b>	11	80.6	<5.9	7	8.1
	<b>Week 1 Avg</b>				10.571428571	
	<b>Week 2 Avg</b>				9.285714286	
	<b>Week 3 Avg</b>				9.571428571	
	<b>Week 4 Avg</b>				10.857142857	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>				30	0
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>				45	0
<b>QA/QC Information</b>	<b>LOD</b>	2.5	3.4	5.9		2.6
	<b>LOQ</b>	10	10	20		10
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750	405132750	405132750	445005220	405132750

	<b>Sample Point</b>	701	001	001	001	001
	<b>Description</b>	Influent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	553	377	457	457	1348
	<b>Description</b>	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	<b>Units</b>	ug/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>	MONTHLY	5/WEEK	5/WEEK	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>		7.3	14	260	0
	<b>2</b>		7.2	14	347	0
	<b>3</b>		7.4	17.2	363	0
	<b>4</b>		7.3	16.4	323	0
	<b>5</b>		7.6	18	322	0
	<b>6</b>		7.2	17.2	276	0
	<b>7</b>	138	7.4	13.6	234	0
	<b>8</b>		7.3	16.4	284	0
	<b>9</b>		7.1	15.2	322	0
	<b>10</b>		7.3	15.6	221	0
	<b>11</b>		7.3	14.8	268	0
	<b>12</b>		7.1	11.6	232	0
	<b>13</b>		7.3	14.4	334	0
	<b>14</b>		7.5	14.4	406	0
	<b>15</b>		7.2	13.2	464	0
	<b>16</b>		7.3	10.0	329	0
	<b>17</b>		7.4	11.2	322	0
	<b>18</b>		7.5	10.0	294	0
	<b>19</b>		7.2	10.8	256	0
	<b>20</b>		7.1	13.2	297	0
	<b>21</b>		7.3	9.6	247	0
	<b>22</b>		7.5	10.8	321	0
	<b>23</b>		7.4	14.8	446	0
	<b>24</b>		7.4	11.2	324	0
	<b>25</b>		7.3	15.6	354	0
	<b>26</b>		7.3	12.0	323	0
	<b>27</b>		7.3	12.8	284	0
	<b>28</b>		7.4	10.8	260	0
	<b>29</b>		7.3	10.4	345	0
	<b>30</b>		7.0	9.2	531	0
	<b>31</b>		6.9	8.0	330	0

	<b>Sample Point</b>	701	001	001	001	001
	<b>Description</b>	Influent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	553	377	457	457	1348
	<b>Description</b>	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	<b>Units</b>	ug/L	su	mg/L	lbs/day	lbs/month
<b>Summary Values</b>	<b>Monthly Avg</b>	138	7.293548387	13.109677419	319.967741935	0
	<b>Daily Max</b>	138	7.6	18	531	0
	<b>Daily Min</b>	138	6.9	8	221	0
	<b>Week 1 Avg</b>			15.771428571		
	<b>Week 2 Avg</b>			14.628571429		
	<b>Week 3 Avg</b>			11.142857143		
	<b>Week 4 Avg</b>			12.571428571		
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>			30	0	
	<b>Daily Max</b>		9	0		
	<b>Daily Min</b>		6	0		
	<b>Weekly Avg</b>			45	0	
<b>QA/QC Information</b>	<b>LOD</b>	11.6				
	<b>LOQ</b>	40				
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750		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>	260	0.35	6.51	0.5	
	<b>2</b>	347	0.55	13.64		
	<b>3</b>	363	0.37	7.81		
	<b>4</b>	323	0.49	9.66	1.2	
	<b>5</b>	322	0.35	6.25	0.6	
	<b>6</b>	276	0.37	5.93	0.5	
	<b>7</b>	234	0.43	7.39	0.5	<1.3
	<b>8</b>	284	0.49	8.50	0.4	
	<b>9</b>	322	0.39	8.27		
	<b>10</b>	221	0.37	5.24		
	<b>11</b>	268	0.49	8.87	0.7	
	<b>12</b>	232	0.32	6.39	0.4	
	<b>13</b>	334	0.38	8.81	0.4	
	<b>14</b>	406	0.37	10.43	0.5	
	<b>15</b>	464	0.36	12.66	0.9	
	<b>16</b>	329	0.33	10.85		
	<b>17</b>	322	0.34	9.76		
	<b>18</b>	294	0.30	8.82	0.4	
	<b>19</b>	256	0.33	7.83	0.5	
	<b>20</b>	297	0.35	7.87	0.4	
	<b>21</b>	247	0.34	8.76	0.3	
	<b>22</b>	321	0.32	9.51	0.4	
	<b>23</b>	446	0.38	11.46		
	<b>24</b>	324	0.34	9.83		
	<b>25</b>	354	0.37	8.39		
	<b>26</b>	323	0.33	8.89		
	<b>27</b>	284	0.31	6.87		
	<b>28</b>	260	0.31	7.47		
	<b>29</b>	345	0.22	7.31		
	<b>30</b>	531	0.28	16.15		
	<b>31</b>	330	0.26	10.72		

	<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>	319.967741935		0.360967742		8.930645161		0.5375		0	
	<b>Daily Max</b>	531		0.55		16.15		1.2		<1.3	
	<b>Daily Min</b>	221		0.22		5.24		0.3		<1.3	
	<b>Week 1 Avg</b>	303.571428571						0.66			
	<b>Week 2 Avg</b>	295.285714286						0.48			
	<b>Week 3 Avg</b>	315.571428571						0.5			
	<b>Week 4 Avg</b>	330.285714286						0.4			
<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>					
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>	2.9	6.7	<5.9	6.6	19.8
	<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>	2.9		6.7		0		6.6		19.8	
	<b>Daily Max</b>	2.9		6.7		<5.9		6.6		19.8	
	<b>Daily Min</b>	2.9		6.7		<5.9		6.6		19.8	
	<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>	101	112
	<b>Description</b>	Effluent Reuse	In-Plant Diversion
	<b>Parameter</b>	671	211
	<b>Description</b>	Flow Unregulated	Flow Rate
	<b>Units</b>	MGD	MGD
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	2.836	0
	<b>2</b>	2.337	0
	<b>3</b>	2.617	0
	<b>4</b>	2.967	0
	<b>5</b>	3.016	0
	<b>6</b>	2.801	0
	<b>7</b>	2.802	0
	<b>8</b>	2.771	0
	<b>9</b>	2.253	0
	<b>10</b>	3.103	0
	<b>11</b>	2.948	0
	<b>12</b>	2.562	0
	<b>13</b>	2.046	0
	<b>14</b>	2.460	0
	<b>15</b>	2.565	0
	<b>16</b>	2.568	0
	<b>17</b>	2.570	0
	<b>18</b>	2.580	0
	<b>19</b>	2.748	0
	<b>20</b>	2.592	0
	<b>21</b>	2.299	0
	<b>22</b>	1.710	0
	<b>23</b>	2.000	0
	<b>24</b>	1.884	0
	<b>25</b>	1.878	0
	<b>26</b>	1.849	0
	<b>27</b>	2.365	0
	<b>28</b>	2.039	0
	<b>29</b>	2.423	0
	<b>30</b>	1.908	0
	<b>31</b>	2.532	0

	<b>Sample Point</b>	101	112
	<b>Description</b>	Effluent Reuse	In-Plant Diversion
	<b>Parameter</b>	671	211
	<b>Description</b>	Flow Unregulated	Flow Rate
	<b>Units</b>	MGD	MGD
<b>Summary Values</b>	<b>Monthly Avg</b>	2.452548387	0
	<b>Daily Max</b>	3.103	0
	<b>Daily Min</b>	1.71	0
	<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	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

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

Laboratory Quality Control Comments

12/20/22. BOD Blank of 0.3.

Submitted by K3vin1 on 01/13/2023 8:01:12 AM