

**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: 11/01/2022 - 11/30/2022  
 Form Due Date: 12/21/2022  
 Permit Number: 0031232

Date Received:  
 DOC: 503643  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Sarah J Adkins  
 Reviewer: Barti Oumarou  
 Office: Oshkosh

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	<b>Day 1</b>	1.919	5.030	290	208	
	<b>2</b>	2.454	5.045	314	188	
	<b>3</b>	2.680	5.254	381	256	
	<b>4</b>	5.065	7.623	282	192	<1.3
	<b>5</b>	10.829	12.598	194	92	
	<b>6</b>	6.311	9.033	274	136	
	<b>7</b>	4.688	7.262	216	144	
	<b>8</b>	4.225	6.409	212	144	
	<b>9</b>	2.976	6.100	248	160	
	<b>10</b>	2.999	6.486	264	164	
	<b>11</b>	4.674	7.118	346	204	
	<b>12</b>	4.254	6.519	197	104	
	<b>13</b>	3.331	6.391	195	164	
	<b>14</b>	2.782	5.892	224	140	
	<b>15</b>	2.827	5.938	262	152	
	<b>16</b>	3.021	6.132	314	156	
	<b>17</b>	3.013	5.898	319	168	
	<b>18</b>	3.367	5.862	241	128	
	<b>19</b>	3.095	5.369	275	132	
	<b>20</b>	3.570	5.838	234	224	
	<b>21</b>	2.679	5.485	245	180	
	<b>22</b>	2.229	5.328	238	172	
	<b>23</b>	3.319	5.735	246	184	
	<b>24</b>	3.844	5.406	235	196	
	<b>25</b>	3.416	5.300	179	128	
	<b>26</b>	2.307	5.307	227	176	
	<b>27</b>	2.690	5.639	244	208	
	<b>28</b>	2.467	5.271	282	200	
	<b>29</b>	2.509	5.016	286	240	
	<b>30</b>	2.846	5.010	292	188	
	<b>31</b>					

	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>	3.5462	6.176466667	258.533333333	170.933333333	0
	<b>Daily Max</b>	10.829	12.598	381	256	<1.3
	<b>Daily Min</b>	1.919	5.01	179	92	<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>					5.3
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>			445005220	445005220	405132750

	<b>Sample Point</b>	701	701	701	701	001
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	133	147	264	315	66
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	BOD5, Total
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	mg/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	5/WEEK
<b>Sample Results</b>	<b>Day 1</b>					12
	<b>2</b>					14
	<b>3</b>					11
	<b>4</b>	13.4	68.9	10.4	6.1	14
	<b>5</b>					16
	<b>6</b>					10
	<b>7</b>					8
	<b>8</b>					8
	<b>9</b>					9
	<b>10</b>					9
	<b>11</b>					6
	<b>12</b>					7
	<b>13</b>					9
	<b>14</b>					8
	<b>15</b>					9
	<b>16</b>					12
	<b>17</b>					10
	<b>18</b>					9
	<b>19</b>					10
	<b>20</b>					10
	<b>21</b>					10
	<b>22</b>					9
	<b>23</b>					8
	<b>24</b>					9
	<b>25</b>					8
	<b>26</b>					8
	<b>27</b>					11
	<b>28</b>					12
	<b>29</b>					9
	<b>30</b>					13
	<b>31</b>					

	<b>Sample Point</b>	701		701		701		701		001	
	<b>Description</b>	Influent		Influent		Influent		Influent		Effluent	
	<b>Parameter</b>	133		147		264		315		66	
	<b>Description</b>	Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable		BOD5, Total	
	<b>Units</b>	ug/L		ug/L		ug/L		ug/L		mg/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	13.4		68.9		10.4		6.1		9.933333333	
	<b>Daily Max</b>	13.4		68.9		10.4		6.1		16	
	<b>Daily Min</b>	13.4		68.9		10.4		6.1		6	
	<b>Week 1 Avg</b>									12.142857143	
	<b>Week 2 Avg</b>									8	
	<b>Week 3 Avg</b>									10	
	<b>Week 4 Avg</b>									9.285714286	
<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>	1.3		3.4		5.9		2.6			
	<b>LOQ</b>	5		10		20		10			
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	405132750		405132750		405132750		405132750		445005220	

	<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>		7.5	28.4	455	0
	<b>2</b>		7.3	26.4	540	0
	<b>3</b>		7.4	27.6	617	0
	<b>4</b>	154	7.4	24.8	1048	0
	<b>5</b>		7.4	26.4	2384	0
	<b>6</b>		7.3	18.8	990	0
	<b>7</b>		7.3	18.4	719	0
	<b>8</b>		7.5	18.8	662	0
	<b>9</b>		7.4	16.4	407	0
	<b>10</b>		7.5	17.2	430	0
	<b>11</b>		7.5	13.2	515	0
	<b>12</b>		7.5	10.4	369	0
	<b>13</b>		7.7	18.8	522	0
	<b>14</b>		7.4	16.0	371	0
	<b>15</b>		7.5	16.4	387	0
	<b>16</b>		7.4	14.4	363	0
	<b>17</b>		7.4	16.8	422	0
	<b>18</b>		7.4	14.4	404	0
	<b>19</b>		7.3	16.0	413	0
	<b>20</b>		7.3	18.8	560	0
	<b>21</b>		7.4	16.0	357	0
	<b>22</b>		7.4	16.0	297	0
	<b>23</b>		7.4	18.8	520	0
	<b>24</b>		7.4	15.6	500	0
	<b>25</b>		7.5	15.6	444	0
	<b>26</b>		7.3	17.2	331	0
	<b>27</b>		7.2	17.6	395	0
	<b>28</b>		7.3	17.6	362	0
	<b>29</b>		7.5	15.2	318	0
	<b>30</b>		7.5	18.0	427	0
	<b>31</b>					

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
Units	ug/L	su	mg/L	lbs/day	lbs/month	
<b>Summary Values</b>	<b>Monthly Avg</b>	154	7.41	18.2	550.966666667	0
	<b>Daily Max</b>	154	7.7	28.4	2384	0
	<b>Daily Min</b>	154	7.2	10.4	297	0
	<b>Week 1 Avg</b>			24.4		
	<b>Week 2 Avg</b>			15.828571429		
	<b>Week 3 Avg</b>			16.114285714		
	<b>Week 4 Avg</b>			16.914285714		
<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>	455	0.55	8.80	0.2	
	<b>2</b>	540	0.60	12.28	0.3	
	<b>3</b>	617	0.57	12.74	0.3	
	<b>4</b>	1048	0.61	25.77		<1.3
	<b>5</b>	2384	0.42	37.93		
	<b>6</b>	990	0.38	20.00	0.3	
	<b>7</b>	719	0.43	16.81	0.1	
	<b>8</b>	662	0.43	15.15	0.1	
	<b>9</b>	407	0.43	10.67	0.2	
	<b>10</b>	430	0.38	9.50	0.2	
	<b>11</b>	515	0.33	12.86		
	<b>12</b>	369	0.22	7.81		
	<b>13</b>	522	0.38	10.56	0.5	
	<b>14</b>	371	0.54	12.53	0.2	
	<b>15</b>	387	0.42	9.90	0.4	
	<b>16</b>	363	0.38	9.57	0.4	
	<b>17</b>	422	0.40	10.05	0.5	
	<b>18</b>	404	0.35	9.83		
	<b>19</b>	413	0.37	9.55		
	<b>20</b>	560	0.44	13.10	0.7	
	<b>21</b>	357	0.38	8.49	0.4	
	<b>22</b>	297	0.41	7.62	0.4	
	<b>23</b>	520	0.37	10.24	0.4	
	<b>24</b>	500	0.35	11.22	0.6	
	<b>25</b>	444	0.38	10.83		
	<b>26</b>	331	0.41	7.89		
	<b>27</b>	395	0.51	11.44	0.7	
	<b>28</b>	362	0.43	8.85	0.5	
	<b>29</b>	318	0.39	8.16	0.6	
	<b>30</b>	427	0.38	9.02	0.6	
	<b>31</b>					

	<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>	550.966666667		0.421333333		12.305666667		0.390909091		0	
	<b>Daily Max</b>	2384		0.61		37.93		0.7		<1.3	
	<b>Daily Min</b>	297		0.22		7.62		0.1		<1.3	
	<b>Week 1 Avg</b>	964.714285714						0.24			
	<b>Week 2 Avg</b>	468						0.24			
	<b>Week 3 Avg</b>	415.142857143						0.48			
	<b>Week 4 Avg</b>	407						0.52			
<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>	2.7	6.4	6.4	6.3	16.7
	<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>	2.7		6.4		6.4		6.3		16.7	
	<b>Daily Max</b>	2.7		6.4		6.4		6.3		16.7	
	<b>Daily Min</b>	2.7		6.4		6.4		6.3		16.7	
	<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	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>	3.111	0
	<b>2</b>	2.591	0
	<b>3</b>	2.574	0
	<b>4</b>	2.558	0
	<b>5</b>	1.769	0
	<b>6</b>	2.722	0
	<b>7</b>	2.574	0
	<b>8</b>	2.184	0
	<b>9</b>	3.124	0
	<b>10</b>	3.487	0
	<b>11</b>	2.444	0
	<b>12</b>	2.265	0
	<b>13</b>	3.060	0
	<b>14</b>	3.110	0
	<b>15</b>	3.111	0
	<b>16</b>	3.111	0
	<b>17</b>	2.885	0
	<b>18</b>	2.495	0
	<b>19</b>	2.274	0
	<b>20</b>	2.268	0
	<b>21</b>	2.806	0
	<b>22</b>	3.099	0
	<b>23</b>	2.416	0
	<b>24</b>	1.562	0
	<b>25</b>	1.884	0
	<b>26</b>	3.000	0
	<b>27</b>	2.949	0
	<b>28</b>	2.804	0
	<b>29</b>	2.507	0
	<b>30</b>	2.164	0
	<b>31</b>		

	<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>	2.630266667	0
	<b>Daily Max</b>	3.487	0
	<b>Daily Min</b>	1.562	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

Submitted by K3vin1 on 12/19/2022 2:39:20 PM