

# 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: 11/01/2021 - 11/30/2021  
 Form Due Date: 12/21/2021  
 Permit Number: 0031232

Date Received:  
 DOC: 479881  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Drafter not set  
 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	Day 1	1.999	5.124	350	268
	2	1.598	5.077	362	296
	3	2.150	5.068	350	284
	4	2.361	5.594	347	284
	5	1.275	4.612	320	132
	6	1.863	4.956	332	116
	7	2.165	5.082	345	280
	8	1.345	4.632	373	244
	9	1.512	4.796	382	292
	10	1.588	4.382	416	308
	11	2.092	4.867	377	268
	12	1.473	4.644	353	232
	13	2.077	4.637	381	240
	14	2.317	5.550	408	288
	15	1.694	4.734	396	268
	16	1.920	5.046	346	280
	17	1.866	4.951	356	232
	18	1.600	4.711	359	260
	19	1.578	4.609	370	280
	20	1.344	4.474	374	240
	21	1.828	4.739	415	296
	22	1.821	4.815	<110	248
	23	1.757	4.700	414	276
	24	2.357	5.143	434	372
	25	1.939	4.544	358	328
	26	1.484	4.424	299	272
	27	1.236	4.408	350	280
	28	2.047	4.749	362	264
	29	1.483	4.527	374	288
	30	2.531	5.419	390	312
	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
<b>Summary Values</b>	<b>Monthly Avg</b>	1.81	4.8338	356.433333333	267.6	0
	<b>Daily Max</b>	2.531	5.594	434	372	<1.3
	<b>Daily Min</b>	1.236	4.382	<110	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	001	701	701
	<b>Description</b>	Influent	Influent	Effluent	Influent	Influent
	<b>Parameter</b>	133	147	66	264	315
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	BOD5, Total	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	mg/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	5/WEEK	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>			10		
	<b>2</b>	17.9	99.7	12	9.3	13.8
	<b>3</b>			12		
	<b>4</b>			9		
	<b>5</b>			13		
	<b>6</b>			10		
	<b>7</b>			16		
	<b>8</b>			10		
	<b>9</b>			16		
	<b>10</b>			12		
	<b>11</b>			18		
	<b>12</b>			13		
	<b>13</b>			12		
	<b>14</b>			22		
	<b>15</b>			10		
	<b>16</b>			12		
	<b>17</b>			13		
	<b>18</b>			13		
	<b>19</b>			12		
	<b>20</b>			12		
	<b>21</b>			17		
	<b>22</b>			14		
	<b>23</b>			12		
	<b>24</b>			14		
	<b>25</b>			13		
	<b>26</b>			14		
	<b>27</b>			11		
	<b>28</b>			11		
	<b>29</b>			12		
	<b>30</b>			12		
	<b>31</b>					

	<b>Sample Point</b>	701		701		001		701		701	
	<b>Description</b>	Influent		Influent		Effluent		Influent		Influent	
	<b>Parameter</b>	133		147		66		264		315	
	<b>Description</b>	Chromium, Total Recoverable		Copper, Total Recoverable		BOD5, Total		Lead, Total Recoverable		Nickel, Total Recoverable	
	<b>Units</b>	ug/L		ug/L		mg/L		ug/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	17.9		99.7		12.9		9.3		13.8	
	<b>Daily Max</b>	17.9		99.7		22		9.3		13.8	
	<b>Daily Min</b>	17.9		99.7		9		9.3		13.8	
	<b>Week 1 Avg</b>					11.714285714					
	<b>Week 2 Avg</b>					14.714285714					
	<b>Week 3 Avg</b>					12.714285714					
	<b>Week 4 Avg</b>					12.714285714					
<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		445005220		405132750		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	16.8	280	0
	<b>2</b>	194	7.4	26.0	347	0
	<b>3</b>		7.2	18.4	330	0
	<b>4</b>		7.3	14.4	284	0
	<b>5</b>		7.4	16.4	174	0
	<b>6</b>		7.6	15.6	242	0
	<b>7</b>		7.4	19.2	347	0
	<b>8</b>		7.3	20.8	233	0
	<b>9</b>		7.6	23.6	298	0
	<b>10</b>		7.2	18.0	238	0
	<b>11</b>		7.2	24.4	426	0
	<b>12</b>		7.2	22.4	275	0
	<b>13</b>		7.4	23.6	409	0
	<b>14</b>		7.6	24.8	479	0
	<b>15</b>		7.1	20.8	294	0
	<b>16</b>		7.4	18.8	301	0
	<b>17</b>		7.2	17.2	268	0
	<b>18</b>		7.3	19.2	256	0
	<b>19</b>		7.4	16.4	216	0
	<b>20</b>		7.2	16.4	184	0
	<b>21</b>		7.3	21.6	329	0
	<b>22</b>		7.1	22.0	334	0
	<b>23</b>		7.2	20.0	293	0
	<b>24</b>		7.1	18.0	354	0
	<b>25</b>		7.4	17.2	278	0
	<b>26</b>		7.4	19.6	243	0
	<b>27</b>		7.2	17.6	181	0
	<b>28</b>		7.2	17.6	300	0
	<b>29</b>		7.1	19.2	237	0
	<b>30</b>		7.1	18.0	380	0
	<b>31</b>					

	<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>	194	7.293333333	19.466666667	293.666666667	0
	<b>Daily Max</b>	194	7.6	26	479	0
	<b>Daily Min</b>	194	7.1	14.4	174	0
	<b>Week 1 Avg</b>			18.114285714		
	<b>Week 2 Avg</b>			22.514285714		
	<b>Week 3 Avg</b>			18.628571429		
	<b>Week 4 Avg</b>			18.857142857		
<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>	280	0.40	6.67	0.3	
	<b>2</b>	347	0.45	6.00	0.3	<1.3
	<b>3</b>	330	0.48	8.61	0.3	
	<b>4</b>	284	0.41	8.07	0.7	
	<b>5</b>	174	2.40	26.48		
	<b>6</b>	242	0.40	6.21		
	<b>7</b>	347	0.38	6.86	0.9	
	<b>8</b>	233	0.55	6.17	0.8	
	<b>9</b>	298	0.48	6.05	0.4	
	<b>10</b>	238	0.43	5.69	0.4	
	<b>11</b>	426	0.62	10.82	0.5	
	<b>12</b>	275	0.51	6.27		
	<b>13</b>	409	0.51	8.83		
	<b>14</b>	479	0.69	13.33	0.9	
	<b>15</b>	294	0.54	7.63	0.4	
	<b>16</b>	301	0.43	6.89	0.3	
	<b>17</b>	268	0.44	6.85	0.5	
	<b>18</b>	256	0.46	6.14	0.5	
	<b>19</b>	216	0.38	5.00		
	<b>20</b>	184	0.39	4.37		
	<b>21</b>	329	0.45	6.86	1.2	
	<b>22</b>	334	0.47	7.14	0.3	
	<b>23</b>	293	0.49	7.18	0.5	
	<b>24</b>	354	0.41	8.06	0.9	
	<b>25</b>	278	0.51	8.25	0.5	
	<b>26</b>	243	0.44	5.45		
	<b>27</b>	181	0.41	4.23		
	<b>28</b>	300	0.45	7.68	0.5	
	<b>29</b>	237	0.46	5.69	0.6	
	<b>30</b>	380	0.43	9.08	0.7	
	<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>	293.666666667		0.529		7.752		0.563636364		0	
	<b>Daily Max</b>	479		2.4		26.48		1.2		<1.3	
	<b>Daily Min</b>	174		0.38		4.23		0.3		<1.3	
	<b>Week 1 Avg</b>	286.285714286						0.5			
	<b>Week 2 Avg</b>	336.857142857						0.6			
	<b>Week 3 Avg</b>	264						0.58			
	<b>Week 4 Avg</b>	283.285714286						0.54			
<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>	<2.5	7.6	<5.9	9.2	14.8
	<b>3</b>					
	<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>					
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	<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		7.6		0		9.2		14.8	
	<b>Daily Max</b>	<2.5		7.6		<5.9		9.2		14.8	
	<b>Daily Min</b>	<2.5		7.6		<5.9		9.2		14.8	
	<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>	3.125	0
	<b>2</b>	3.479	0
	<b>3</b>	2.918	0
	<b>4</b>	3.233	0
	<b>5</b>	3.337	0
	<b>6</b>	3.093	0
	<b>7</b>	2.917	0
	<b>8</b>	3.287	0
	<b>9</b>	3.284	0
	<b>10</b>	2.794	0
	<b>11</b>	2.775	0
	<b>12</b>	3.171	0
	<b>13</b>	2.560	0
	<b>14</b>	3.233	0
	<b>15</b>	3.040	0
	<b>16</b>	3.126	0
	<b>17</b>	3.085	0
	<b>18</b>	3.111	0
	<b>19</b>	3.031	0
	<b>20</b>	3.130	0
	<b>21</b>	2.911	0
	<b>22</b>	2.994	0
	<b>23</b>	2.943	0
	<b>24</b>	2.786	0
	<b>25</b>	2.605	0
	<b>26</b>	2.940	0
	<b>27</b>	3.172	0
	<b>28</b>	2.702	0
	<b>29</b>	3.044	0
	<b>30</b>	2.888	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>	3.0238	0
	<b>Daily Max</b>	3.479	0
	<b>Daily Min</b>	2.56	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

11-22 Influent BOD- All dilutions under depleted, Reported less than 110 ppm.

Submitted by K3vin1 on 12/07/2021 8:23:08 AM