

**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: 04/01/2018 - 04/30/2018  
 Form Due Date: 05/21/2018  
 Permit Number: 0031232

Date Received:  
 DOC: 400833  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Richard P Sachs  
 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	2.081	4.797	232	160	
	2	2.304	5.030	237	240	
	3	2.083	4.810	251	188	<1.3
	4	2.509	5.233	182	208	
	5	2.428	5.157	217	152	
	6	2.638	5.360	214	148	
	7	2.376	5.050	201	176	
	8	3.013	5.186	196	136	
	9	2.529	5.195	206	160	
	10	1.875	4.903	215	192	
	11	2.163	5.183	244	256	
	12	2.728	5.668	221	192	
	13	7.627	9.405	197	200	
	14	8.777	8.777	75	68	
	15	7.604	7.604	153	132	
	16	7.469	7.469	152	120	
	17	7.643	7.643	156	116	
	18	7.447	7.447	155	96	
	19	9.854	9.854	131	68	
	20	13.014	13.014	56	36	
	21	15.304	15.304	90	120	
	22	17.058	17.058	123	72	
	23	16.340	16.340	95	104	
	24	14.050	14.050	77	56	
	25	12.180	12.180	90	108	
	26	10.210	10.260	116	88	
	27	9.080	9.080	119	100	
	28	7.970	7.970	111	120	
	29	7.917	7.917	166	128	
	30	7.288	7.288	153	140	
	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>	7.1853	8.341066667	161.033333333	136	0
	<b>Daily Max</b>	17.058	17.058	251	256	<1.3
	<b>Daily Min</b>	1.875	4.797	56	36	<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	701	001
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	133	147	264	315	649
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	CBOD5
	<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>					6
	<b>2</b>					5
	<b>3</b>	10.4	63.3	5.6	6.3	6
	<b>4</b>					6
	<b>5</b>					5
	<b>6</b>					4
	<b>7</b>					5
	<b>8</b>					5
	<b>9</b>					6
	<b>10</b>					5
	<b>11</b>					5
	<b>12</b>					8
	<b>13</b>					5
	<b>14</b>					3
	<b>15</b>					5
	<b>16</b>					5
	<b>17</b>					5
	<b>18</b>					3
	<b>19</b>					7
	<b>20</b>					5
	<b>21</b>					4
	<b>22</b>					12
	<b>23</b>					5
	<b>24</b>					4
	<b>25</b>					8
	<b>26</b>					6
	<b>27</b>					5
	<b>28</b>					4
	<b>29</b>					6
	<b>30</b>					5
	<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		649	
	<b>Description</b>	Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable		CBOD5	
	<b>Units</b>	ug/L		ug/L		ug/L		ug/L		mg/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	10.4		63.3		5.6		6.3		5.433333333	
	<b>Daily Max</b>	10.4		63.3		5.6		6.3		12	
	<b>Daily Min</b>	10.4		63.3		5.6		6.3		3	
	<b>Week 1 Avg</b>									5.285714286	
	<b>Week 2 Avg</b>									5.285714286	
	<b>Week 3 Avg</b>									4.857142857	
	<b>Week 4 Avg</b>									6.285714286	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>									25	0
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Weekly Avg</b>									40	0
<b>QA/QC Information</b>	<b>LOD</b>	2.5		6.3		4.3		2.6			
	<b>LOQ</b>	10		20		13		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	457	377	388	789
	<b>Description</b>	Zinc, Total Recoverable	Suspended Solids, Total	pH Field	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total
	<b>Units</b>	ug/L	mg/L	su	mg/L	mg/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	5/WEEK	5/WEEK	5/WEEK	5/WEEK
<b>Sample Results</b>	<b>Day 1</b>		10	7.3	0.28	0.1
	<b>2</b>		7	7.2	0.24	0.1
	<b>3</b>	126	9	7.4	0.24	0.6
	<b>4</b>		8	7.1	0.24	0.1
	<b>5</b>		7	7.2	0.19	0.1
	<b>6</b>		9	7.3	0.18	
	<b>7</b>		8	7.5	0.22	
	<b>8</b>		7	7.5	0.19	0.1
	<b>9</b>		9	7.2	0.22	0.1
	<b>10</b>		9	7.3	0.15	0.1
	<b>11</b>		9	7.3	0.25	0.1
	<b>12</b>		9	7.2	0.22	0.2
	<b>13</b>		8	7.1	0.23	
	<b>14</b>		9	7.1	0.09	
	<b>15</b>		8	7.0	0.19	0.2
	<b>16</b>		7	7.3	0.17	0.2
	<b>17</b>		10	7.2	0.22	0.2
	<b>18</b>		8	7.2	0.11	0.2
	<b>19</b>		12	7.3	0.20	0.3
	<b>20</b>		14	7.5	0.21	
	<b>21</b>		9	7.5	0.14	
	<b>22</b>		16	7.3	0.17	0.1
	<b>23</b>		12	7.3	0.17	0.08
	<b>24</b>		9	7.3	0.18	0.1
	<b>25</b>		19	7.3	0.35	0.5
	<b>26</b>		8	7.4	0.15	0.2
	<b>27</b>		13	7.2	0.22	
	<b>28</b>		10	7.5	0.13	
	<b>29</b>		9	7.6	0.15	0.1
	<b>30</b>		10	7.3	0.18	0.1
	<b>31</b>					

	Sample Point	701	001	001	001	001			
	Description	Influent	Effluent	Effluent	Effluent	Effluent			
	Parameter	553	457	377	388	789			
	Description	Zinc, Total Recoverable	Suspended Solids, Total	pH Field	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total			
Units	ug/L	mg/L	su	mg/L	mg/L				
<b>Summary Values</b>	<b>Monthly Avg</b>	126	9.733333333	7.296666667	0.196	0.176363636			
	<b>Daily Max</b>	126	19	7.6	0.35	0.6			
	<b>Daily Min</b>	126	7	7	0.09	0.08			
	<b>Week 1 Avg</b>		8.285714286			0.2			
	<b>Week 2 Avg</b>		8.571428571			0.12			
	<b>Week 3 Avg</b>		9.714285714			0.22			
	<b>Week 4 Avg</b>		12.428571429			0.196			
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>		30	0	1	0	11	0	
	<b>Daily Max</b>				9	0		17	0
	<b>Daily Min</b>				6	0			
	<b>Weekly Avg</b>		45	0				29	0
<b>QA/QC Information</b>	<b>LOD</b>	9.3			0.026		0.045		
	<b>LOQ</b>	40			0.087		0.15		
	<b>QC Exceedance</b>	N	N	N	N	N	N	N	
	<b>Lab Certification</b>	405132750	445005220		445005220		445005220		

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	87	133	147	264	315
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, 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>	<1.3	3.2	8	4.4	6.1
	<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>	87	133	147	264	315
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	0	3.2	8	4.4	6.1
	<b>Daily Max</b>	<1.3	3.2	8	4.4	6.1
	<b>Daily Min</b>	<1.3	3.2	8	4.4	6.1
	<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	2.5	6.3	4.3	2.6
	<b>LOQ</b>	5	10	20	13	10
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750	405132750	405132750	405132750	405132750



	<b>Sample Point</b>	001	101
	<b>Description</b>	Effluent	Effluent Reuse
	<b>Parameter</b>	553	671
	<b>Description</b>	Zinc, Total Recoverable	Flow Unregulated
	<b>Units</b>	ug/L	MGD
	<b>Sample Type</b>	24 HR FLOW PROP	CONTINUOUS
	<b>Frequency</b>	MONTHLY	DAILY
<b>Sample Results</b>	<b>Day 1</b>		2.716
	<b>2</b>		2.726
	<b>3</b>	25.2	2.727
	<b>4</b>		2.724
	<b>5</b>		2.729
	<b>6</b>		2.722
	<b>7</b>		2.674
	<b>8</b>		2.173
	<b>9</b>		2.666
	<b>10</b>		3.028
	<b>11</b>		3.020
	<b>12</b>		2.940
	<b>13</b>		1.778
	<b>14</b>		0
	<b>15</b>		0
	<b>16</b>		0
	<b>17</b>		0
	<b>18</b>		0
	<b>19</b>		0
	<b>20</b>		0
	<b>21</b>		0
	<b>22</b>		0
	<b>23</b>		0
	<b>24</b>		0
	<b>25</b>		0
	<b>26</b>		0.05
	<b>27</b>		0
	<b>28</b>		0
	<b>29</b>		0
	<b>30</b>		0
	<b>31</b>		

	<b>Sample Point</b>	001	101
	<b>Description</b>	Effluent	Effluent Reuse
	<b>Parameter</b>	553	671
	<b>Description</b>	Zinc, Total Recoverable	Flow Unregulated
	<b>Units</b>	ug/L	MGD
<b>Summary Values</b>	<b>Monthly Avg</b>	25.2	1.155766667
	<b>Daily Max</b>	25.2	3.028
	<b>Daily Min</b>	25.2	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>	9.3	
	<b>LOQ</b>	40	
	<b>QC Exceedance</b>	N	N
	<b>Lab Certification</b>	405132750	

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

BOD Blank Failures: 4-7-18(0.28ppm)

Submitted by K3vin1 on 05/24/2018 8:02:40 AM