

# Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: FOND DU LAC WTRRF  
 Contact Address: 700 Doty St  
 Fond du Lac, WI 54935  
 Facility Contact: Cody Schoepke, Wastewater Superintendent  
 Phone Number: 920-251-9859  
 Reporting Period: 05/01/2022 - 05/31/2022  
 Form Due Date: 06/21/2022  
 Permit Number: 0023990

Date Received:  
 DOC: 496194  
 FIN: 7290  
 FID: 420004860  
 Region: Northeast Region  
 Permit Drafter: Drafter not set  
 Reviewer: Mark F Stanek  
 Office: Oshkosh

	Sample Point	703	703	703	703	703
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	211	66	457	87	133
	Description	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable	Chromium, Total Recoverable
	Units	MGD	mg/L	mg/L	ug/L	ug/L
	Sample Type	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	DAILY	MONTHLY	MONTHLY
Sample Results	Day 1	6.551	407	240	0.3	28.0
	2	6.776	266	266		
	3	9.502	283	240		
	4	8.800	275	232		
	5	8.125	284	240		
	6	7.782	257	188		
	7	6.774	320	180		
	8	6.371	233	204		
	9	7.478	319	332		
	10	7.801	255	248		
	11	7.177	278	300		
	12	7.111	365	283		
	13	6.400	381	246		
	14	5.904	306	211		
	15	5.900	199	194		
	16	6.245	351	304		
	17	5.974	341	262		
	18	6.207	287	252		
	19	6.823	355	280		
	20	6.799	326	264		
	21	5.921	270	200		
	22	5.716	233	204		
	23	6.180	346	292		
	24	5.737	300	275		
	25	9.201	351	362		
	26	12.770	262	216		
	27	11.019	184	177		
	28	8.512	189	196		
	29	7.403	204	84		
	30	7.139	228	200		
	31	7.091	292	248		

	<b>Sample Point</b>	703	703	703	703	703
	<b>Description</b>	Influent	Influent	Influent	Influent	Influent
	<b>Parameter</b>	211	66	457	87	133
	<b>Description</b>	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable	Chromium, Total Recoverable
	<b>Units</b>	MGD	mg/L	mg/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	7.328677419	288.612903226	239.35483871	0.3	28
	<b>Daily Max</b>	12.77	407	362	0.3	28
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	5.716	184	84	0.3	28
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<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 Max - Variable</b>					
	<b>Daily Min</b>					
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>				0.3	1.3
	<b>LOQ</b>				1	4.3
	<b>QC Exceedance</b>	N	Y	N	N	N
	<b>Lab Certification</b>		420004860	420004860	445023150	445023150

	<b>Sample Point</b>	703	703	703	703	003
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	147	264	315	553	211
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	MGD
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	TOT DAILY
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	76.0	9.5	78.0	138.0	6.551
	<b>2</b>					6.776
	<b>3</b>					9.502
	<b>4</b>					8.800
	<b>5</b>					8.125
	<b>6</b>					7.782
	<b>7</b>					6.774
	<b>8</b>					6.371
	<b>9</b>					7.478
	<b>10</b>					7.801
	<b>11</b>					7.177
	<b>12</b>					7.111
	<b>13</b>					6.400
	<b>14</b>					5.904
	<b>15</b>					5.900
	<b>16</b>					6.245
	<b>17</b>					5.974
	<b>18</b>					6.207
	<b>19</b>					6.823
	<b>20</b>					6.799
	<b>21</b>					5.921
	<b>22</b>					5.716
	<b>23</b>					6.180
	<b>24</b>					5.737
	<b>25</b>					9.201
	<b>26</b>					12.770
	<b>27</b>					11.019
	<b>28</b>					8.512
	<b>29</b>					7.403
	<b>30</b>					7.139
	<b>31</b>					7.091

	Sample Point	703	703	703	703	003
	Description	Influent	Influent	Influent	Influent	Effluent
	Parameter	147	264	315	553	211
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	ug/L	MGD
<b>Summary Values</b>	Monthly Avg	76	9.5	78	138	7.328677419
	Daily Max	76	9.5	78	138	12.77
	Daily Max - Variable					
	Daily Min	76	9.5	78	138	5.716
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
<b>Limit(s) in Effect</b>	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
<b>QA/QC Information</b>	LOD	0.8	3.5	1.3	2.2	
	LOQ	2.7	12	4.3	7.3	
	QC Exceedance					
	Lab Certification	445023150	445023150	445023150	445023150	

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	66	457	377	204	388
	<b>Description</b>	BOD5, Total	Suspended Solids, Total	pH Field	Fecal Coliform	Phosphorus, Total
	<b>Units</b>	mg/L	mg/L	mg/L	#/100ml	mg/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	GRAB	24 HR FLOW PROP
	<b>Frequency</b>	DAILY	DAILY	DAILY	WEEKLY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	9.4	5.7	7.4		0.24
	<b>2</b>	8.6	6.5	7.3		0.22
	<b>3</b>	10.3	5.0	7.3	1	0.27
	<b>4</b>	6.9	4.7	7.4		0.21
	<b>5</b>	6.6	4.1	7.4		0.18
	<b>6</b>	4.8	5.2	7.3		0.20
	<b>7</b>	4.6	3.2	7.4		0.13
	<b>8</b>	4.6	3.8	7.3		0.16
	<b>9</b>	6.2	4.8	7.4		0.18
	<b>10</b>	5.8	4.0	7.4	2	0.16
	<b>11</b>	4.4	3.3	7.3		0.17
	<b>12</b>	4.9	4.1	7.3		0.18
	<b>13</b>	3.7	3.7	7.4		0.19
	<b>14</b>	3.6	3.4	7.4		0.17
	<b>15</b>	4.7	3.8	7.4		0.18
	<b>16</b>	6.6	5.2	7.4		0.21
	<b>17</b>	7.1	4.2	7.4	15	0.22
	<b>18</b>	9.9	4.7	7.3		0.24
	<b>19</b>	7.4	5.0	7.4		0.24
	<b>20</b>	5.9	5.1	7.4		0.24
	<b>21</b>	5.4	4.6	7.4		0.22
	<b>22</b>	7.0	4.7	7.3		0.22
	<b>23</b>	8.0	4.5	7.2		0.22
	<b>24</b>	7.1	6.0	7.3	13	0.23
	<b>25</b>	9.5	6.0	7.4		0.30
	<b>26</b>	9.0	6.7	7.3		0.24
	<b>27</b>	6.0	5.3	7.3		0.15
	<b>28</b>	5.4	4.6	7.3		0.16
	<b>29</b>	5.3	4.0	7.5		0.14
	<b>30</b>	4.8	3.4	7.5		0.14
	<b>31</b>	5.0	3.4	7.5	5	0.14

	<b>Sample Point</b>	003		003		003		003		003	
	<b>Description</b>	Effluent		Effluent		Effluent		Effluent		Effluent	
	<b>Parameter</b>	66		457		377		204		388	
	<b>Description</b>	BOD5, Total		Suspended Solids, Total		pH Field		Fecal Coliform		Phosphorus, Total	
	<b>Units</b>	mg/L		mg/L		mg/L		#/100ml		mg/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	6.403225806		4.603225806		7.364516129		7.2		0.198387097	
	<b>Daily Max</b>	10.3		6.7		7.5		15		0.3	
	<b>Daily Max - Variable</b>										
	<b>Daily Min</b>	3.6		3.2		7.2		1		0.13	
	<b>Geometric Mean -</b>							4.549953123			
	<b>Geometric Mean -</b>							13			
	<b>Week 1 Avg</b>	7.314285714		4.914285714							
	<b>Week 2 Avg</b>	4.742857143		3.871428571							
	<b>Week 3 Avg</b>	6.714285714		4.657142857							
	<b>Week 4 Avg</b>	7.428571429		5.4							
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	30	0	30	0					0.80	0
	<b>Daily Max</b>					9	0				
	<b>Daily Max - Variable</b>										
	<b>Daily Min</b>					6	0				
	<b>Geometric Mean -</b>							400	0		
	<b>Geometric Mean -</b>							656	0		
	<b>Weekly Avg</b>	45	0	45	0						
<b>QA/QC Information</b>	<b>LOD</b>									0.005	
	<b>LOQ</b>									0.017	
	<b>QC Exceedance</b>	Y		N		N		N		N	
	<b>Lab Certification</b>	420004860		420004860						420004860	

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	388	789	320	87	133
	<b>Description</b>	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable
	<b>Units</b>	lbs/month	mg/L	mg/L	ug/L	ug/L
	<b>Sample Type</b>	CALCULATED	24 HR FLOW PROP	SEE TABLE	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	DAILY	DAILY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>		0.24	>34	<0.3000	1.5000
	<b>2</b>		0.18	>34		
	<b>3</b>		0.68	>34		
	<b>4</b>		0.15	>34		
	<b>5</b>		0.10	>34		
	<b>6</b>		0.12	>34		
	<b>7</b>		0.11	>34		
	<b>8</b>		0.10	>34		
	<b>9</b>		0.12	>34		
	<b>10</b>		0.09	>34		
	<b>11</b>		0.06	>34		
	<b>12</b>		0.06	>34		
	<b>13</b>		0.12	>34		
	<b>14</b>		0.08	>34		
	<b>15</b>		0.05	>34		
	<b>16</b>		0.13	>34		
	<b>17</b>		0.10	>34		
	<b>18</b>		0.07	>34		
	<b>19</b>		0.17	>34		
	<b>20</b>		0.11	>34		
	<b>21</b>		0.17	>34		
	<b>22</b>		0.17	>34		
	<b>23</b>		0.17	>34		
	<b>24</b>		0.12	>34		
	<b>25</b>		0.82	>34		
	<b>26</b>		0.56	>34		
	<b>27</b>		0.19	>34		
	<b>28</b>		0.19	>34		
	<b>29</b>		0.12	>34		
	<b>30</b>		0.13	>34		
	<b>31</b>		375.25	0.10	>34	

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	388	789	320	87	133
	<b>Description</b>	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable
	<b>Units</b>	lbs/month	mg/L	mg/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	375.25	0.18	>34	0	1.5
	<b>Daily Max</b>	375.25	0.82	>34	<0.3	1.5
	<b>Daily Max - Variable</b>		0.82			
	<b>Daily Min</b>	375.25	0.05	>34	<0.3	1.5
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<b>Week 1 Avg</b>		0.225714286			
	<b>Week 2 Avg</b>		0.09			
	<b>Week 3 Avg</b>		0.114285714			
	<b>Week 4 Avg</b>		0.317142857			
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>		19	0		
	<b>Daily Max</b>					
	<b>Daily Max - Variable</b>		0	0		
	<b>Daily Min</b>					
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<b>Weekly Avg</b>		34	0		
<b>QA/QC Information</b>	<b>LOD</b>		0.02		0.3	1.3
	<b>LOQ</b>		0.06		1	4.3
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>		420004860		445023150	445023150



	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	147	264	315	553	391
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	E. coli
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	#/100ml
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	GRAB
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	WEEKLY
<b>Sample Results</b>	<b>Day 1</b>	10.0000	<3.5000	18.0000	27.0000	
	<b>2</b>					
	<b>3</b>					51.2
	<b>4</b>					
	<b>5</b>					
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					7.5
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					50.4
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					33.6
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					13.1

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	147	264	315	553	391
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	E. coli
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	#/100ml
<b>Summary Values</b>	<b>Monthly Avg</b>	10	0	18	27	31.16
	<b>Daily Max</b>	10	<3.5	18	27	51.2
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	10	<3.5	18	27	7.5
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<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 Max - Variable</b>					
	<b>Daily Min</b>					
	<b>Geometric Mean -</b>					
	<b>Geometric Mean -</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>	0.8	3.5	1.3	2.2	
	<b>LOQ</b>	2.7	12	4.3	7.3	
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	445023150	445023150	445023150	445023150	

	<b>Sample Point</b>	199
	<b>Description</b>	In-Plant Blending
	<b>Parameter</b>	211
	<b>Description</b>	Flow Rate
	<b>Units</b>	MGD
	<b>Sample Type</b>	CALCULATED
	<b>Frequency</b>	PER OCCURRNCE
<b>Sample Results</b>	<b>Day 1</b>	0.00
	<b>2</b>	0.00
	<b>3</b>	0.00
	<b>4</b>	0.00
	<b>5</b>	0.00
	<b>6</b>	0.00
	<b>7</b>	0.00
	<b>8</b>	0.00
	<b>9</b>	0.00
	<b>10</b>	0.00
	<b>11</b>	0.00
	<b>12</b>	0.00
	<b>13</b>	0.00
	<b>14</b>	0.00
	<b>15</b>	0.00
	<b>16</b>	0.00
	<b>17</b>	0.00
	<b>18</b>	0.00
	<b>19</b>	0.00
	<b>20</b>	0.00
	<b>21</b>	0.00
	<b>22</b>	0.00
	<b>23</b>	0.00
	<b>24</b>	0.00
	<b>25</b>	0.00
	<b>26</b>	0.00
	<b>27</b>	0.00
	<b>28</b>	0.00
	<b>29</b>	0.00
	<b>30</b>	0.00
	<b>31</b>	0.00

	<b>Sample Point</b>	199	
	<b>Description</b>	In-Plant Blending	
	<b>Parameter</b>	211	
	<b>Description</b>	Flow Rate	
	<b>Units</b>	MGD	
<b>Summary Values</b>	<b>Monthly Avg</b>	0	
	<b>Daily Max</b>	0	
	<b>Daily Max - Variable</b>		
	<b>Daily Min</b>	0	
	<b>Geometric Mean -</b>		
	<b>Geometric Mean -</b>		
	<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 Max - Variable</b>		
	<b>Daily Min</b>		
	<b>Geometric Mean -</b>		
	<b>Geometric Mean -</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

5/12/22 BOD GGA: The BOD GGA sample set up on 5/12/22 failed high. The result was >368.57 mg/L which was above the highest acceptable limit of 228.5 mg/L. Too much GGA solution was added. The GGA set up on 5/13/22 passed at 203.18 mg/L.

Submitted by 73chev on 06/07/2022 2:12:38 PM