

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: 01/01/2023 - 01/31/2023
 Form Due Date: 02/21/2023
 Permit Number: 0023990

Date Received:
 DOC: 509667
 FIN: 7290
 FID: 420004860
 Region: Northeast Region
 Permit Drafter: Sarah J Adkins
 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	5.961	376	240	<0.3	6.8
	2	6.256	346	242		
	3	6.865	323	252		
	4	7.372	357	276		
	5	7.321	289	229		
	6	7.492	373	246		
	7	7.094	334	331		
	8	6.829	288	234		
	9	6.908	344	252		
	10	6.618	357	266		
	11	6.027	399	248		
	12	5.644	370	276		
	13	5.619	369	286		
	14	5.269	360	460		
	15	5.282	330	280		
	16	6.234	351	397		
	17	6.183	497	302		
	18	5.923	370	320		
	19	6.522	359	224		
	20	6.441	273	208		
	21	6.186	327	204		
	22	5.864	235	184		
	23	6.061	289	260		
	24	5.985	389	244		
	25	6.298	282	240		
	26	6.582	344	260		
	27	6.266	309	248		
	28	5.861	418	268		
	29	5.862	250	252		
	30	6.094	306	266		
	31	5.875	380	250		

	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
Summary Values	Monthly Avg	6.283677419	341.741935484	265.967741935	0	6.8
	Daily Max	7.492	497	460	<0.3	6.8
	Daily Max - Variable					
	Daily Min	5.269	235	184	<0.3	6.8
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD				0.3	1.3
	LOQ				1	4.3
	QC Exceedance	N	Y	N	N	N
	Lab Certification		420004860	420004860	445023150	445023150

	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
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	TOT DAILY
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	DAILY
Sample Results	Day 1	52.0	<3.5	10.0	106.0	5.961
	2					6.256
	3					6.865
	4					7.372
	5					7.321
	6					7.492
	7					7.094
	8					6.829
	9					6.908
	10					6.618
	11					6.027
	12					5.644
	13					5.619
	14					5.269
	15					5.282
	16					6.234
	17					6.183
	18					5.923
	19					6.522
	20					6.441
	21					6.186
	22					5.864
	23					6.061
	24					5.985
	25					6.298
	26					6.582
	27					6.266
	28					5.861
	29					5.862
	30					6.094
	31					5.875

	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
Summary Values	Monthly Avg	52	0	10	106	6.283677419
	Daily Max	52	<3.5	10	106	7.492
	Daily Max - Variable					
	Daily Min	52	<3.5	10	106	5.269
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	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	

	Sample Point	003	003	003	003	003
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	66	457	377	388	388
	Description	BOD5, Total	Suspended Solids, Total	pH Field	Phosphorus, Total	Phosphorus, Total
	Units	mg/L	mg/L	mg/L	mg/L	lbs/month
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	MONTHLY
Sample Results	Day 1	7	5.6	7.2	0.19	
	2	9	5.7	7.2	0.19	
	3	11	6.0	7.2	0.21	
	4	8	6.2	7.2	0.20	
	5	9	7.0	7.2	0.25	
	6	7	6.8	7.2	0.25	
	7	7	8.4	7.4	0.23	
	8	8	7.3	7.2	0.24	
	9	10	8.0	7.2	0.25	
	10	12	7.4	7.3	0.26	
	11	8	7.8	7.3	0.29	
	12	9	7.8	7.3	0.31	
	13	8	8.3	7.3	0.29	
	14	7	7.7	7.2	0.27	
	15	8	7.5	7.3	0.28	
	16	13	9.3	7.2	0.27	
	17	12	8.3	7.3	0.31	
	18	13	9.8	7.3	0.31	
	19	9	8.8	7.3	0.32	
	20	8	9.8	7.3	0.34	
	21	7	9.8	7.2	0.33	
	22	7	9.4	7.3	0.34	
	23	14	10.8	7.2	0.36	
	24	12	11.8	7.2	0.39	
	25	10	6.5	7.2	0.47	
	26	10	12.4	7.2	0.49	
	27	10	13.8	7.2	0.53	
	28	11	14.7	7.2	0.54	
	29	14	17.1	7.3	0.42	
	30	20	12.2	7.2	0.42	
	31	12	16.6	7.1	0.46	524.22

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		457		377		388		388	
	Description	BOD5, Total		Suspended Solids, Total		pH Field		Phosphorus, Total		Phosphorus, Total	
Units	mg/L		mg/L		mg/L		mg/L		lbs/month		
Summary Values	Monthly Avg	10		9.309677419		7.238709677		0.322903226		524.22	
	Daily Max	20		17.1		7.4		0.54		524.22	
	Daily Max - Variable										
	Daily Min	7		5.6		7.1		0.19		524.22	
	Week 1 Avg	8.285714286		6.528571429							
	Week 2 Avg	8.857142857		7.757142857							
	Week 3 Avg	10		9.042857143							
	Week 4 Avg	10.571428571		11.342857143							
Limit(s) in Effect	Monthly Avg	30	0	30	0			0.80	0		
	Daily Max					9	0				
	Daily Max - Variable										
	Daily Min					6	0				
	Weekly Avg	45	0	45	0						
QA/QC Information	LOD							0.005			
	LOQ							0.017			
	QC Exceedance	Y		N		N		N		N	
	Lab Certification	420004860		420004860				420004860			

	Sample Point	003	003	003	003	003
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	320	87	133	147
	Description	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable
	Units	mg/L	mg/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	SEE TABLE	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.32	>34	<0.3000	2.0000	9.3000
	2	0.67	>34			
	3	1.22	>34			
	4	0.98	>34			
	5	0.83	>34			
	6	1.07	>34			
	7	1.00	>34			
	8	0.62	>34			
	9	1.21	>34			
	10	2.24	>34			
	11	1.25	>34			
	12	0.88	>34			
	13	1.12	>34			
	14	0.95	>34			
	15	0.77	>34			
	16	1.81	>34			
	17	1.32	>34			
	18	1.78	>34			
	19	1.42	>34			
	20	1.26	>34			
	21	0.89	>34			
	22	0.84	>34			
	23	1.09	>34			
	24	1.03	>34			
	25	1.30	>34			
	26	1.66	>34			
	27	1.46	>34			
	28	1.49	>34			
	29	1.20	>34			
	30	1.23	>34			
	31	2.09	>34			

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	789		320		87		133		147	
	Description	Nitrogen, Ammonia (NH3-N) Total		Nitrogen, Ammonia Variable Limit		Cadmium, Total Recoverable		Chromium, Total Recoverable		Copper, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	1.193548387		>34		0		2		9.3	
	Daily Max	2.24		>34		<0.3		2		9.3	
	Daily Max - Variable	2.24									
	Daily Min	0.32		>34		<0.3		2		9.3	
	Week 1 Avg	0.87									
	Week 2 Avg	1.181428571									
	Week 3 Avg	1.321428571									
	Week 4 Avg	1.267142857									
Limit(s) in Effect	Monthly Avg	22	0								
	Daily Max										
	Daily Max - Variable	0	0								
	Daily Min										
	Weekly Avg	34	0								
QA/QC Information	LOD	0.02				0.3		1.3		0.8	
	LOQ	0.06				1		4.3		2.7	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	420004860				445023150		445023150		445023150	

	Sample Point	003	003	003	199
	Description	Effluent	Effluent	Effluent	In-Plant Blending
	Parameter	264	315	553	211
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	MGD
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	PER OCCURNC
Sample Results	Day 1	5.2000	7.1000	25.0000	0.00
	2				0.00
	3				0.00
	4				0.00
	5				0.00
	6				0.00
	7				0.00
	8				0.00
	9				0.00
	10				0.00
	11				0.00
	12				0.00
	13				0.00
	14				0.00
	15				0.00
	16				0.00
	17				0.00
	18				0.00
	19				0.00
	20				0.00
	21				0.00
	22				0.00
	23				0.00
	24				0.00
	25				0.00
	26				0.00
	27				0.00
	28				0.00
	29				0.00
	30				0.00
	31				0.00

	Sample Point	003		003		003		199	
	Description	Effluent		Effluent		Effluent		In-Plant Blending	
	Parameter	264		315		553		211	
	Description	Lead, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Flow Rate	
	Units	ug/L		ug/L		ug/L		MGD	
Summary Values	Monthly Avg	5.2		7.1		25		0	
	Daily Max	5.2		7.1		25		0	
	Daily Max - Variable								
	Daily Min	5.2		7.1		25		0	
	Week 1 Avg								
	Week 2 Avg								
	Week 3 Avg								
	Week 4 Avg								
Limit(s) in Effect	Monthly Avg								
	Daily Max								
	Daily Max - Variable								
	Daily Min								
	Weekly Avg								
QA/QC Information	LOD	3.5		1.3		2.2			
	LOQ	12		4.3		7.3			
	QC Exceedance	N		N		N		N	
	Lab Certification	445023150		445023150		445023150			

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

1-24-23 BOD Blank Depletion: A blank set up on 1/24/2023 failed. The failed blank was associated with the sample date 1/22/2023 and had a depletion of 0.27 mg/L. The acceptable limit is 0.24 mg/L. The dilution jug was cleaned. The BOD blank for sample date 1/23/2023, set up on 1/25/2023, passed at 0.22 mg/L.

Submitted by 73chev on 02/13/2023 8:22:17 AM