Wisconsin Pollutant Discharge Elimination System (WPDES)
Wastewater Discharge Individual Permit Application

Permittee Name: **Waukesha City**
Facility Name: **WAUKESHA CITY**
Address: **600 Sentry Dr, Waukesha, WI 53186**
WPDES Permit Number: **0029971-09-0**
Proposed Permit Expiration Date: **06/30/2023**
FID #: **268005100**

Important - Please Read These Instructions

Completion of this application is required pursuant to ss. 283.37 and 283.53, Stats., and ch. NR 200, Wis. Adm. Code. Failure to provide the requested information may result in fines, forfeitures or other penalties pursuant to ss. 283.89 and 283.91, Stats. Personally identifiable information is not likely to be used by the Department of Natural Resources (DNR) for any purpose other than the reasons stated in the form or for the purpose the form is being submitted.

You must use this form (or a department-approved modification to this form) to apply for an initial permit or a reissued permit for a discharge that the DNR determines requires an individual permit under ss. NR 200.03(1)(a), (b) and (c), Wis. Adm. Code.

- Initial permit - If you are applying for an initial permit, s. NR 200.04(3), Wis. Adm. Code, requires that you file a complete application with the DNR no later than 180 days prior to the date you intend to commence discharging.
- Reissued permit - If you have an existing permit and wish to continue to discharge after expiration of the permit, s. NR 200.06, Wis. Adm. Code, requires that you must file a complete application with the DNR no later than 180 days prior to the current permit expiration date.

The application for a given permittee consists of a number of sections that may differ from another pemittee's application, based on discharge type (municipal, industrial, surface water, land treatment, land application, stormwater). If you have made changes to your facility since the last time the DNR reissued your permit and you did not inform the DNR of those changes, this application may not contain all of the correct applicable sections. The correct discharge type and number of outfalls should appear in the menu bar to the left. If the proper sections do not appear at the left, you should notify the department or you may complete this application, indicating what changes have occurred in answer to questions that ask you to report changes.

You must answer every question on the sections that apply to your facility. If you try to submit the application with required fields missing, an error message will alert you. The DNR may contact you to request additional information. Your application will not be considered complete until you supply this required information.

For some outfall types, effluent monitoring for a list of pollutants is required as part of the application. Please plan accordingly so results are available to submit with the application. Note, that some pollutants require multiple tests.

To begin, check to see if the Permittee and the Facility name shown at the top of this page are correct. If the facility name and permittee name are not correct, please report the problem to the DNR using the **Contact Us** button in the left menu. If the information is correct:

- Click on the various sections in the menu bar to the left one at a time and complete the information requested by checking boxes, clicking buttons or entering words and numbers.
- If you have questions about what information to supply for a certain question as you go about filling out the form, click on the **Instructions** button in the left menu bar to reveal instructions for the section you are working on. Useful tip: After you bring up the instructions, you may print them. However, you should understand that, the complete instructions are about 40 pages long.
- Use the **save** button as you go or as requested. Your work will automatically be saved upon exiting. You may complete some parts of the application and come back at another time to finish.
- To print a section or multiple sections at any time use the **PDF Print** button in the left menu bar, select the section(s) you want to print, open the PDF document and use the normal print function.
- When you believe a section is complete, click on the **validate** button in the left menu bar. If information is missing, a message will inform you what you need to do. If all the required information has been supplied, a red check mark will appear in the left menu bar next to the section. You may change your answer to a question in a validated section up until you **submit** your application.
- When all sections are complete and have been validated, use the **submit** button to send your application to the DNR. The Permit Application Certification Statement must be printed and then signed by the Authorized Representative. Mail the Certification Statement to the address given.

Facility Information

1. Permittee name: **Waukesha City**

2. Facility Site Name: **WAUKESHA CITY**
Site Address:**600 Sentry Drive**
MCD: **City of WAUKESHA**
County: **Waukesha**

3. Other environmental permits or approvals
Has the facility received or applied for coverage under any general WPDES permit or any other environmental permits, such as for management of hazardous wastes, emission of air pollutants or underground injection?

○ No

● Yes If yes, give the permit number(s) and briefly describe the discharge(s)

Permit Number	Description of Discharge
268005100-ropa	**Air Permit**
39-6005642	**Chemical Inventory permit**

4. Native American Lands

a. ○ Yes ● No Is any portion of the facility located on Native American lands?

b. ○ Yes ● No Does the receiving stream flow through Native American lands after it receives discharge from the treatment facility?

c. ○ Yes ● No Are biosolids stored on, disposed of, or land applied on Native American lands?

If yes, to any of the above, please identify those portions of the facility or wastewaters located on Native American lands.

5. Site Map
Attach to this application a detailed site map, such as a USGS topographic map, showing the area extending to at least one (1) mile beyond property boundaries. This map must show the outline of the facility, the locations of incoming wastewater, including hauled waste receiving stations, the locations of all surface water discharge points (e.g., to rivers, lakes, streams etc) and all land treatment sites (e.g., seepage cells). For surface water discharges, estimate the approximate distance from the plant to the receiving waters. For groundwater discharges, include all groundwater monitoring wells, nearby residences and all potable wells within 1,000 feet of all land treatment sites. Number all discharge points and sampling points on the map. Include the map scale and a meridian arrow showing north.

☒ Site map is attached to the Certification Statement

Contact Information

Check over the contact information below and fill in any missing information or make any needed changes. It is not necessary to have a person's name as Owner. Also, fax numbers are not required. All other fields are required.

AUTHORIZED REPRESENTATIVE	Name	**Fred Abadi**	Title	**Dept. of Public Works Director**
	Address	**130 Delafield St Waukesha,WI 53188**		
			Phone	**(262) 524-3596**
	EMail	**fabadi@waukesha-wi.gov**	FAX	
OWNER OF FACILITY	Name	**City of Waukesha**	Title	
	Address	**201 Delafield St Waukesha,WI 53188**		
			Phone	**(262) 524-3500**
	EMail	**www.waukesha-wi.gov**	FAX	
DISCHARGE MONITORING CONTACT	Name	**Greg Markle**	Title	**Process Control Supervisor**
	Address	**600 Sentry Drive Waukesha,WI 53186**		
			Phone	**(262) 524-3631**
	EMail	**gmarkle@waukesha-wi.gov**	FAX	
FACILITY OPERATOR/PLANT MANAGER	Name	**Jeff Harenda**	Title	**Plant Manager**
	Address	**600 Sentry Dr. Waukesha,WI 53186**		
			Phone	**(262) 524-3629**
	EMail	**jharenda@waukesha-wi.gov**	FAX	**(262) 524-3632**

Description Of Municipal Activity

1. Treatment Facility Information

a. Provide a brief description of the wastewater treatment facility.

14 MGD design flow, preliminary treatment with screening and grit removal, primary settling, activated sludge, chemical phosphorus removal, tertiary filtration, UV disinfection, post aeration, solids thickening, anaerobic digestion, solids dewatering, solids storage, and land application of bio-solids.

b. Blending - If the treatment facility is designed to operate with blending (the routing of untreated or partially treated wastewater around a biological treatment unit), you may request approval for blending. Please use the Blending Approval Checklist to help guide you in preparing a request for blending approval. Attach a paper copy to the Certification Statement.

Are you applying for blending approval?

○ Yes ● No

2. Change in Operations

a. If this application is for reissuance of a current WPDES permit, since the most recent issuance, have any changes in the operations of the facility or modifications of the facility's wastewater treatment system affected either the quantity or quality of the discharges from the facility?

● No. (continue to b)

○ Yes. If yes, indicate changes and modifications that have been made and then continue to b.

○ NA. This is a first-time application.

b. In the next five years, do you intend to expand or change the operations of the facility or modify the wastewater treatment system to an extent that the quantity or quality of the discharge will be affected?

○ No. (continue to 3)

● Yes. If yes, provide a brief summary of the planned changes.

Addition of advanced phosphorus treatment for WQBEL.
Addition of a return flow pump station for Lake Michigan water supply.

Description Of Municipal Activity

3. Design Flow

Based on information available to the Department, the wastewater treatment plant's average flow (may also be known as the "dry weather design flow") is shown below. This is the flow that the Department uses for most of the effluent limit calculations. The Department will determine other needed flow values from our records. Please indicate if you agree or disagree with the average design flow given. If you disagree, please briefly explain your reason.

Average Design Flow **14** MGD (million gallons per day)

- ● I agree that the given flow is correct.
- ○ I disagree for the following reason:

NOTE: Contact your DNR representative regarding development of an industrial pretreatment program if your Average Design Flow exceeds 5 MGD or will do so in the next 5 years.

4. Influent Flow Monitoring and Sampling Devices

Influent Flow Monitoring Type & Age	Parshall flume (installed 1992) with ultrasonic level sensor (replaced 2015).
Influent Flow Monitoring Location	Preliminary treatment bldg.
Influent Sampling Type	Flow proportional-refrigerated vacuum sampler
Influent Sampling Location	Preliminary treatment bldg. in front of flume

5. Service Area Information

a. List all governmental jurisdictions or private developments served by the treatment works (cities, villages, towns or sanitary districts), who own sewers in each of those entities and the approximate population of each entity.

Entity Name	Who Owns Sewers	Approx Pop Served
City of Waukesha	City of Waukesha	71,700
Village of Wales	Village of Wales	1084

b. List sources of water supply serving the sewered service area (include any water supplies serving industrial contributors not connected to the municipal supply where it is located). Indicate approximate average flows and any chemical treatment (other than chlorine or fluoride) for each water supply.

Source Name	Flow (avg. in MGD)	Chemical Treatment
Waukesha Water Utility	6.7	Current groundwater supply: sodium silicate for iron sequestering, HMO process for radium removal

6. Have there been any collection system overflow or treatment plant bypass events in the last 5 years?

- ○ No. If no, continue to next question.
- ● Yes. If yes, were the details of these incidences reported to the Department?
  - ● Yes. If yes, continue to the next question.
  - ○ No. If no, provide detailed descriptions of the problems, using the Overflow/Bypass Form. Attach a paper copy of the completed Overflow/Bypass form to the Certification Statement.

Description Of Municipal Activity

7. Contributors of Non-domestic Wastewater

a. Pretreatment Program -- Does the treatment works have, or is it subject to, an approved pretreatment program (flow greater than 5 MGD)?

● Yes. If yes, record the date of program approval. 6/6/1985

Also, record the number of industrial users of the following types:

Categorical Industrial Users

Record the number of Categorical Industrial Users that contribute wastewater to the treatment works: 18

Other significant Industrial Users

Record the number of other significant industrial users that contribute wastewater to the treatment works: 6

○ No. If no, record the name(s) of industrial users of the types designated. If there are no users of a given type, enter "None":

Name any **Categorical Industrial User(s)** (see list of categorical industry types in instructions) that contributes wastewater, other than sanitary wastewater, to the treatment works(If none, enter none):

Name any Industrial user(s) that is not a categorical user but has been previously designated as a **Significant Industrial User** or contributes; 1) an average of 25,000 gallons per day or more of wastewater, excluding sanitary wastewater, noncontact cooling water and boiler blowdown or 2) a process waste stream that makes up 5% or more of the average dry weather hydraulic or organic capacity of the treatment plant(If none, enter none):

b. Potentially Toxic Discharges -- Name any industrial user(s) not included above that contributes wastewater from food processing, dairy operations (including condensate of whey), can cooling, meat packing or fish hatchery operation (If none, enter none):

None

c. Wastes From Other Activities -- Name other entities that contribute wastewater from any of the following activities (If none, enter none):

Groundwater Remediation or Other Remedial Cleanup: none

Discharges from Hazardous Waste Generators: none

d. Total Number of Non-domestic Contributors named above (enter 0 if none): 0

e. Detailed Contributor Information -- For each of the non-domestic contributors **named** in parts of question 7, complete a Detailed Non-Domestic Contributor Sheet. (If you operate a pretreatment program, you only need to provide this information for contributors named in parts b. and c.)

Description Of Municipal Activity

8. Hauled Wastes (check all wastes accepted and enter the average amount in gallons per day)

Sources	Monthly Average Amount (gallons per day)
☒ Domestic holding tank wastes	26,544
☒ Septic tank waste	21,540
☐ Grease trap/interceptor waste	
☐ Commercial Septage	
☒ Landfill leachate	3,729
☒ Other	5,245
☐ None of the above	

9. Schematic Diagram of Treatment System - Attach a schematic diagram (paper copy) of your wastewater treatment system. Show all sample locations and treatment units and processes including any chemical addition or treatment. Also show plant recycle lines and sludge draw off points.

☒ Schematic diagram attached to the Certification Statement

Surface Water Outfall Information for outfall 001: EFFLUENT - Fox River

1. Receiving Water: **FOX RIVER**

2. Outfall Location
Describe the outfall location (for example, east bank of Wisconsin River one-quarter mile down stream of Second Street bridge)

East bank of Illinois Fox River, one half mile downstream of Prairie Street bridge.

3. Seasonal or Intermittent Discharges (select one of following options and provide information requested)

- ● Discharge is year round.
- ○ Discharge is intermittent (describe the frequency, duration and flow rate of each discharge occurrence, except for storm water runoff and spillage or leaks).
- ○ Discharge is seasonal (specify dates)

Date From **Through Date**

4. Effluent Flow Monitoring and Sampling Devices

Flow Monitoring Type & Age:	Parshall flume with ultrasonic level sensor both installed in 2016.
Flow Monitoring Location:	Effluent channel between river and UV system
Effluent Sampling Type:	Flow proportional refrigerated composite sampler
Effluent Composite Sample Location:	Effluent channel between flume and UV system
Effluent Grab Sample Location:	Effluent channel after flume

5. Phosphorus ○
Alternative Technology Based Effluent Limit OR Adaptive Management/Trading OR Variance:
As of December 2010, Wisconsin's phosphorus rules, NR 217 Wis. Adm. Code, were updated to include procedures for calculating water quality based effluent limits (WQBELs) for phosphorus in addition to the existing technology based limits of 1.0 mg/L and existing provisions for requesting an alternative technology-based phosphorus limit. Options available for phosphorus compliance (based on eligibility) are listed below.

a. Alternative Technology Based Effluent Limit - If you wish to request an alternative technology-based phosphorus limit, please contact your DNR representative to determine if your facility is eligible. Should you decide to pursue an alternative technology-based phosphorus limit, please use the Alternative Phosphorus Effluent Limitation Request Checklist and attach a copy to the Certification Statement.

Are you applying for an alternative technology-based phosphorus limitation?

○ Yes ● No

Surface Water Outfall Information for outfall 001: EFFLUENT - Fox River

b. Adaptive Management/Water Quality Trading - If you wish to request either the Adaptive Management option to achieve the phosphorus water quality criteria per s. NR 217.18, Wis. Adm.Code or the Water Quality Trading option per s. 283.84, Wis. Stats., please use the applicable form (see links below) and attach a copy to the Certification Statement.

Watershed Adaptive Management Request form 3200-139

Notice to Conduct Water Quality Trading form 3400-206

Are you requesting the Adaptive Management option or Water Quality Trading option to achieve phosphorus water quality compliance?

○ Yes ● No

c. Variance
PERMITEES WITH A PHOSPHORUS WATER QUALITY BASED EFFLUENT LIMIT FOR AN EXISTING SOURCE: You may apply for a variance to the phosphorus water quality standard used to calculate the water quality based effluent limits per s. 283.15, Wis. Stats. (Variance, Form 3200-143) or per s. 283.16, Wis. Stats. (Multi-Discharger Variance, Form 3200-150).
PERMITEES WITH A PERMITTED STABILIZATION POND/LAGOON SYSTEM: You may apply for a variance to the phosphorus water quality based effluent limitations if your wastewater treatment system consists primarily of a stabilization pond or lagoon system per s. NR 217.19, Wis. Adm. Code.
To apply for the phosphorus variance, please use the applicable form (see links below) and attach a copy to the Certification Statement.

Phosphorus Variance Application for Municipal Facilities form 3200-143

Phosphorus Multi-Discharge Variance Application form 3200-150

Phosphorus Variance Application form 3200-138 for Stabilization Ponds/Lagoon Systems

Are you applying for a Phosphorus variance?

○ ●

6. Biological Toxicity Data - In the last five years, have any biological tests for acute or chronic toxicity been made on the discharge from this outfall or on the receiving water for this outfall?

○ No.

● Yes. If yes, provide all test dates and types below. Also, submit to the Department test results for those tests not previously submitted.

Dates	Type (acute or chronic)
2/14/2012	**Both**
7/8/2012	**Both**
2/4/2013	**Both**
10/7/2013	**Both**
11/15/2013	**Chronic**
12/3/2013	**Chronic**
5/11/2014	**Chronic**
7/6/2014	**Both**
5/3/2015	**Both**
3/6/2016	**Both**
9/10/2017	**Both**

Surface Water Outfall Information for outfall 001: EFFLUENT - Fox River	
7.	Chloride Variance - If your current permit contains a chloride variance and you wish the variance to continue, you must re-apply. If your effluent chloride concentration approaches or exceeds 1500 mg/L as a daily maximum (or 395 as a weekly average, if you discharge to a very low-flow stream) you may have trouble meeting effluent chloride limits. You may apply for a chloride variance under section NR 106, subchapter IV, Wisconsin Administrative Code. To apply, use the Chloride Variance Application Form 3400-193 and attach a copy to the Certification Statement. Are you applying for a chloride variance? ● Yes ○ No
8.	Mercury Variance - If your effluent mercury concentration approaches or exceeds 1.3 ng/L as a monthly average, and you discharge net quantities of mercury, you may have trouble meeting water quality based effluent limits for mercury. You may apply for a mercury variance (alternative mercury effluent limitation) under section NR 106.145, Wisconsin Administrative Code. To apply for a variance, use the Mercury Variance Application Form 3400-192 and attach a paper copy to the Certification Statement. Are you applying for a mercury variance? ○ Yes ● No
9.	Temperature - Dissipative Cooling (DC) or Alternative Effluent Limit (AEL) Options available for temperature compliance (as applicable) are listed below: a) Dissipative Cooling Request - The department may account for Dissipative Cooling of the POTW's effluent in determining the need for sub-lethal temperature limits, upon request by the POTW. If you wish to request consideration of DC per s. NR 106.59 (4) or s. NR 106.59(6) Wis. Adm. Code, please use the Dissipative Cooling Request Form and attach a copy to the Certification Statement. b) Continued Consideration of Dissipative Cooling - If your current permit does not include sub-lethal temperature limits due to recognition of dissipative cooling you may request continued consideration of DC. In accordance with s. NR 106.59(8), Wis. Adm. Code, your request must: 1) Be submitted with this application; 2) Certify that there has been no substantive change in operations or loadings since the previous permit application; 3) Include any new information generated during the current permit term with certification that it is consistent with the previous permit application. Attach your request for continued consideration of DC to the Certification Statement or enter your request in the Comments section. c) Temperature Alternative Effluent Limit (AEL) - An application for an alternative effluent limitation may be submitted by the permitee if the facility is subject to effluent temperature limitations per s. NR 106.72, Wis. Adm. Code. The application for an AEL shall include a demonstration that the effluent temperature limitations are more stringent than necessary to assure protection of aquatic life. If you wish to apply for an alternative effluent temperature limit per s. NR 106.72, please use the Notice of Application for an Alternative Effluent Limit for Temperature and attach a copy to the Certification Statement. Are you applying for dissipative cooling or an alternative effluent limitation for temperature? ● ○
10.	Variance to a Water Quality Standard and/or Water Quality Trading a. Request for a Variance to a Water Quality Standard - If it is your intent to apply for a variance to any water quality standard not referenced above please refer to the DNR web page for variances at http://dnr.wi.gov/topic/wastewater/variances.html b. Request for Water Quality Trading - If it is your intent to use Water Quality Trading to demonstrate compliance with a water quality based effluent limitation, please refer to the DNR web page for trading at http://dnr.wi.gov/topic/surfacewater/waterqualitytrading.html

Surface Water Outfall Information for outfall 001: EFFLUENT - Fox River

11. Discharge Monitoring Report (DMR) Information

Select one and give details, if appropriate.

- ○ This is a first-time permit application for a facility that does not yet have a discharge.
- ● I believe that data previously reported on DMRs for this outfall for the last 36 months are representative of the effluent quality.
- ○ Certain of the data previously reported on DMRs for this outfall for the last 36 months are not representative of the effluent quality. The data (give specific dates or date ranges) and the reasons for them not being representative are as follows.

12.	**Required Effluent Monitoring for Outfall 001**
a.	Permittees are required to monitor and record results in the attached Monitoring Grid for each substance listed for each municipal major outfall. If you test any parameter more frequently than indicated by the number of rows in the Grid, use the Additional Values Grid to report the results. See Table 1 of the instructions for appropriate sample types, recommended analytical methods and proper sample preservation and holding times. All samples should be representative of normal operating conditions.
b.	You may not be required to provide monitoring results of this outfall discharge. Indicate if one of the following conditions apply, please show which one applies and leave all or parts of the monitoring table blank. ● I am required to provide monitoring results. ○ I am NOT required to provide monitoring results because one of the following conditions apply. ○ I have two or more outfalls that discharge substantially identical wastewaters and I have received permission by contacting the responsible DNR staff person to only sample one of them. I am providing results for another substantially identical outfall. ○ This is a first-time permit application for a facility that does not yet have a discharge. ○ This outfall is no longer in use. ○ This outfall has a seasonal discharge that I was unable to sample prior to submitting the application. I will take the required samples once discharge resumes and send in the results as soon as possible. ○ I have received instructions in the application notification letter that I am exempt from certain standard monitoring requirements. ○ I have received instructions in the application notification letter that I may submit hard copies of the test results. I have attached them to the Certification Statement.

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
Common Pollutants										
330	**Nitrogen, Nitrite + Nitrate Total**	20.9	mg/L	☐	0.95	2.5	EPA 353.2	10/10/2017	Comp	405132750
335	**Nitrogen, Total Kjeldahl**	0.57	mg/L	☐			EPA 351.2	10/10/2017	Comp	405132750
338	**Nitrogen, Total**	21.5	mg/L	☐			Calculation	10/10/2017	Comp	
Explanation of QC Flags										
Metals, Cyanide, Hardness and Phenols										
31	**Antimony, Total Recoverable (7440360)**	<7.6	ug/L	☐	7.6	25.0	EPA 200.7	10/10/2017	Comp	405132750
35	**Arsenic, Total Recoverable (7440-38-2)**	<8.3	ug/L	☐	8.3	25.0	EPA 200.7	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
50	**Beryllium, Total Recoverable (7440417)**	<1.2	ug/L	☐	1.2	4.0	EPA 200.7	10/10/2017	Comp	405132750
127	**Chromium +6 (18540-29-9)**	<5.1	ug/L	☐	5.1	17	SM3500-CRB	10/10/2017	Grab	405132750
155	**Cyanide, Total (57-12-5)**	<6.7	ug/L	☐	6.7	22.4	SM4500-CNE	10/10/2017	Grab	999446800
152	**Cyanide, Amenable (57-12-5)**	<6.7	ug/L	☐	6.7	22.4	SM4500-CNG	10/10/2017	Grab	999446800
423	**Selenium, Total Recoverable (7782-49-2)**	<16.6	ug/L	☐	16.6	50.0	EPA 200.7	10/10/2017	Comp	405132750
430	**Silver, Total Recoverable (7440-22-4)**	<3.3	ug/L	☐	3.3	10.0	EPA 200.7	10/10/2017	Comp	405132750
494	**Thallium, Total Recoverable (7440-28-0)**	<7.4	ug/L	☐	7.4	40.0	EPA 200.7	10/10/2017	Comp	405132750
231	**Hardness, Total as CaCO3 (Submit a minimum of 4 sample results collected at 3 days apart.)**	376	mg/L	☐			EPA 200.7	10/1/2017	Comp	405132750
		381	mg/L	☐			EPA 200.7	10/5/2017	Comp	405132750
		396	mg/L	☐			EPA 200.7	10/10/2017	Comp	405132750
		410	mg/L	☐			EPA 200.7	10/25/2017	Comp	405132750
382	**Phenols, Total**	<3.9	ug/L	☐	3.9	13.1	EPA 420.4	10/10/2017	Comp	999407970
Explanation of QC Flags										
Volatile Organics										
6	**Acrolein (107-02-8)**	<10.0	ug/L	☐	10.0	20.0	EPA 624	10/10/2017	Grab	405132750
8	**Acrylonitrile (107-13-1)**	<2.3	ug/L	☐	2.3	5.0	EPA 624	10/10/2017	Grab	405132750
40	**Benzene (71-43-2)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
174	**Dichlorobromo- methane (bromo-dichloromethane) (75-27-4)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
80	**Bromoform (75-25-2)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
93	**Carbon tetrachloride (56-23-5)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
113	**Chlorobenzene (108-90-7)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
115	**Chlorodibromo-methane (124-48-1)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
117	**Chloroethane (75003)**	<0.37	ug/L	☐	0.37	1.0	EPA 624	10/10/2017	Grab	405132750
118	**Chloroform (67-66-3)**	<2.5	ug/L	☐	2.5	5.0	EPA 624	10/10/2017	Grab	405132750
584	**1,3-Dichloropropylene (542-75-6)**	<0.73	ug/L	☐	0.73	2.0	EPA 624	10/10/2017	Grab	405132750
568	**1,2-Dichloro- benzene**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
581	**1,3-Dichloro- benzene (541731)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
587	**1,4-Dichloro- benzene (106-46-7)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
556	**1,1-Dichloro- ethane (75-34-3)**	<0.24	ug/L	☐	0.24	1.0	EPA 624	10/10/2017	Grab	405132750
570	**1,2-Dichloro- ethane (107-06-2)**	<0.17	ug/L	☐	0.17	1.0	EPA 624	10/10/2017	Grab	405132750
558	**1,1-Dichloro- ethylene (75-35-4)**	<0.41	ug/L	☐	0.41	1.0	EPA 624	10/10/2017	Grab	405132750
576	**1,2-trans Dichloroethylene (156-60-5)**	<0.26	ug/L	☐	0.26	1.0	EPA 624	10/10/2017	Grab	405132750
573	**1,2-Dichloropropane (78-87-5)**	<0.23	ug/L	☐	0.23	4.0	EPA 624	10/10/2017	Grab	405132750
589	**2-Chloroethyl vinyl ether (110-75-8)**	<1.9	ug/L	☐	1.9	5.0	EPA 624	10/10/2017	Grab	405132750
200	**Ethylbenzene (100414)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
82	**Methyl bromide (74839)**	<2.4	ug/L	☐	2.4	5.0	EPA 624	10/10/2017	Grab	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
120	**Chloromethane (74873)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
285	**Methylene chloride (75092)**	<0.23	ug/L	☐	0.23	4.0	EPA 624	10/10/2017	Grab	405132750
565	**1,1,2,2-Tetrachloro- ethane (79-34-5)**	<0.25	ug/L	☐	0.25	1.0	EPA 624	10/10/2017	Grab	405132750
490	**Tetrachloroethylene (127-18-4)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
500	**Toluene (108-88-3)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
561	**1,1,1-Trichloro- ethane (71-55-6)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
563	**1,1,2-Trichloro- ethane (79-00-5)**	<0.20	ug/L	☐	0.20	1.0	EPA 624	10/10/2017	Grab	405132750
508	**Trichloro- ethylene (79-01-6)**	<0.33	ug/L	☐	0.33	1.0	EPA 624	10/10/2017	Grab	405132750
517	**Vinyl chloride (75-01-4)**	<0.18	ug/L	☐	0.18	1.0	EPA 624	10/10/2017	Grab	405132750
Explanation of QC Flags										
Acid Extractable Compounds (Phenols)										
592	**2-Chlorophenol (95-57-8)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
603	**2,4-Dichlorophenol (120-83-2)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
604	**2,4-Dimethyl- phenol (105-67-9)**	<0.89	ug/L	☐	0.89	4.8	EPA 625	10/10/2017	Comp	405132750
605	**2,4-Dinitrophenol (51-28-5)**	<0.82	ug/L	☐	0.82	9.5	EPA 625	10/10/2017	Comp	405132750
349	**P-Chloro-m-Cresol (3-methyl-4-chlorophenol) (59-50-7)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
593	**2-Methyl-4,6- dinitrophenol (534521)**	<0.59	ug/L	☐	0.59	4.8	EPA 625	10/10/2017	Comp	405132750
596	**2-Nitrophenol (88-75-5)**	<0.81	ug/L	☐	0.81	4.8	EPA 625	10/10/2017	Comp	405132750
624	**4-Nitrophenol (100-02-7)**	<0.56	ug/L	☐	0.56	9.5	EPA 625	10/10/2017	Comp	405132750
368	**Pentachloro- phenol (87-86-5)**	1.9	ug/L	☐	0.71	9.5	EPA 625	10/10/2017	Comp	405132750
633	**Phenol (108-95-2)**	1.4	ug/L	☐	0.52	4.8	EPA 625	10/10/2017	Comp	405132750
608	**2,4,6-Trichloro- phenol (88-06-2)**	<1.0	ug/L	☐	1.0	4.8	EPA 625	10/10/2017	Comp	405132750
Explanation of QC Flags										
Base/Neutral Compounds										
867	**Acenaphthene (83-32-9)**	<0.91	ug/L	☐	0.91	4.8	EPA 625	10/10/2017	Comp	405132750
4	**Acenaphthylene (208-96-8)**	<0.95	ug/L	☐	0.95	4.8	EPA 625	10/10/2017	Comp	405132750
42	**Benzidine (92-87-5)**	<26.8	ug/L	☐	26.8	47.6	EPA 625	10/10/2017	Comp	405132750
61	**Bis(2-Chloroethoxy) methane (111-91-1)**	<0.96	ug/L	☐	0.96	4.8	EPA 625	10/10/2017	Comp	405132750
62	**Bis(2-Chloroethyl)ether (111-44-4)**	<0.70	ug/L	☐	0.70	4.8	EPA 625	10/10/2017	Comp	405132750
63	**Bis(2-Chloroisopropyl) ether (66-56-8)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
64	**Bis(2-Ethylhexyl) phthalate (117-81-7)**	5.4	ug/L	☐	0.73	4.8	EPA 625	10/10/2017	Comp	405132750
621	**4-Bromophenyl-plenyl ether (101-55-3)**	<0.48	ug/L	☐	0.48	4.8	EPA 625	10/10/2017	Comp	405132750
84	**Butyl benzyl phthalate (85-68-7)**	<0.72	ug/L	☐	0.72	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
591	**2-Chloronaphthalene (91-58-7)**	<1.0	ug/L	☐	1.0	4.8	EPA 625	10/10/2017	Comp	405132750
622	**4-Chloro-phenyl-phenyl ether (7005-72-3)**	<0.90	ug/L	☐	0.90	4.8	EPA 625	10/10/2017	Comp	405132750
617	**3,3'-Dichlorobenzidine (91-94-1)**	<1.3	ug/L	☐	1.3	4.8	EPA 625	10/10/2017	Comp	405132750
178	**Diethyl phthalate (84-66-2)**	<0.51	ug/L	☐	0.51	4.8	EPA 625	10/10/2017	Comp	405132750
181	**Dimethyl phthalate (131-11-3)**	<0.69	ug/L	☐	0.69	4.8	EPA 625	10/10/2017	Comp	405132750
167	**Di-n-butyl phthalate (dibutyl phthalate) (84-74-2)**	<0.91	ug/L	☐	0.91	4.8	EPA 625	10/10/2017	Comp	405132750
606	**2,4-Dinitro- toluene (121-14-2)**	<0.95	ug/L	☐	0.95	4.8	EPA 625	10/10/2017	Comp	405132750
612	**2,6-Dinitro- toluene (606-20-2)**	<1.5	ug/L	☐	1.5	4.8	EPA 625	10/10/2017	Comp	405132750
169	**Di-n-octyl phthalate (117-84-0)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
574	**1,2-Diphenylhydrazine (122-66-7)**	<1.2	ug/L	☐	1.2	4.8	EPA 625	10/10/2017	Comp	405132750
240	**Hexachloroethane (67721)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
253	**Isophorone (78-59-1)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
302	**N-Nitrosodimethyl-amine (62-75-9)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
304	**N-Nitrosodiphenyl-amine (86-30-6)**	<2.1	ug/L	☐	2.1	9.5	EPA 625	10/10/2017	Comp	405132750
299	**N-Nitrosodi-n-propylamine (319-84-6)**	<0.97	ug/L	☐	0.97	4.8	EPA 625	10/10/2017	Comp	405132750
307	**Naphthalene (91-20-3)**	<0.67	ug/L	☐	0.67	4.8	EPA 625	10/10/2017	Comp	405132750
317	**Nitrobenzene (98953)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
577	**1,2,4-Trichloro- benzene (120-82-1)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
234	**Hexachlorobenzene (118-74-1)**	<0.54	ug/L	☐	0.54	4.8	EPA 625	10/10/2017	Comp	405132750
236	**Hexachlorobutadiene (87683)**	<1.7	ug/L	☒	1.7	9.5	EPA 625	10/10/2017	Comp	405132750
238	**Hexachlorocyclo-pentadiene (77-47-4)**	<0.86	ug/L	☐	0.86	4.8	EPA 625	10/10/2017	Comp	405132750
28	**Anthracene (120-12-7)**	<0.60	ug/L	☐	0.60	4.8	EPA 625	10/10/2017	Comp	405132750
43	**Benzo(a)anthracene (56-55-3)**	<0.58	ug/L	☐	0.58	4.8	EPA 625	10/10/2017	Comp	405132750
44	**Benzo(a)pyrene (50-32-8)**	<0.92	ug/L	☐	0.92	4.8	EPA 625	10/10/2017	Comp	405132750
45	**Benzo(b)fluoranthene (205-99-2)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
46	**Benzo(ghi)perylene (191-24-2)**	<0.73	ug/L	☐	0.73	4.8	EPA 625	10/10/2017	Comp	405132750
47	**Benzo(k)fluoranthene (207-08-9)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
135	**Chrysene (218-01-9)**	<0.74	ug/L	☐	0.74	4.8	EPA 625	10/10/2017	Comp	405132750
172	**Dibenzo(a,h)-anthracene (53-70-3)**	<1.3	ug/L	☐	1.3	4.8	EPA 625	10/10/2017	Comp	405132750
213	**Fluoranthene (206-44-0)**	<0.87	ug/L	☐	0.87	4.8	EPA 625	10/10/2017	Comp	405132750
215	**Fluorene (86-73-7)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
244	**Indeno(1,2,3-cd)-pyrene (193-39-5)**	<0.64	ug/L	☐	0.64	4.8	EPA 625	10/10/2017	Comp	405132750
380	**Phenanthrene (85-01-8)**	<0.60	ug/L	☐	0.60	4.8	EPA 625	10/10/2017	Comp	405132750
403	**Pyrene (129-00-0)**	<1.5	ug/L	☐	1.5	4.8	EPA 625	10/10/2017	Comp	405132750
Explanation of QC Flags										

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
	Code 236 - Analyte recovery in lab control sample was above QC limits. Results may be biased high.									
Pesticides										
16	**Aldrin (309002)**	<0.0071	ug/L	☐	0.0071	0.024	EPA 608	10/10/2017	Comp	405132750
56	**BHC, alpha (319846)**	<0.0075	ug/L	☐	0.0075	0.025	EPA 608	10/10/2017	Comp	405132750
51	**BHC, beta (319-85-7)**	<0.0077	ug/L	☐	0.0077	0.026	EPA 608	10/10/2017	Comp	405132750
57	**BHC, delta (319868)**	<0.011	ug/L	☐	0.011	0.037	EPA 608	10/10/2017	Comp	405132750
58	**BHC, gamma (Lindane) (58899)**	<0.0060	ug/L	☐	0.0060	0.020	EPA 608	10/10/2017	Comp	405132750
103	**Chlordane (57-74-9)**	<0.21	ug/L	☐	0.21	0.69	EPA 608	10/10/2017	Comp	405132750
629	**4,4'-DDT (50-29-3)**	<0.014	ug/L	☐	0.014	0.045	EPA 608	10/10/2017	Comp	405132750
628	**4,4'-DDE (72-55-9)**	<0.018	ug/L	☐	0.018	0.058	EPA 608	10/10/2017	Comp	405132750
627	**4,4'-DDD (72-54-8)**	<0.013	ug/L	☐	0.013	0.045	EPA 608	10/10/2017	Comp	405132750
176	**Dieldrin (60-57-1)**	<0.013	ug/L	☐	0.013	0.042	EPA 608	10/10/2017	Comp	405132750
194	**Endosulfan alpha (959-98-8)**	<0.0092	ug/L	☐	0.0092	0.031	EPA 608	10/10/2017	Comp	405132750
195	**Endosulfan beta (33213-65-9)**	<0.023	ug/L	☐	0.023	0.076	EPA 608	10/10/2017	Comp	405132750
196	**Endosulfan sulfate (1031-07-8)**	<0.014	ug/L	☐	0.014	0.047	EPA 608	10/10/2017	Comp	405132750
197	**Endrin (72-20-8)**	<0.015	ug/L	☐	0.015	0.050	EPA 608	10/10/2017	Comp	405132750
198	**Endrin aldehyde (7421934)**	<0.015	ug/L	☐	0.015	0.049	EPA 608	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
232	**Heptachlor (76-44-8)**	<0.0062	ug/L	☐	0.0062	0.021	EPA 608	10/10/2017	Comp	405132750
233	**Heptachlorepoxide (1024-57-3)**	<0.012	ug/L	☐	0.012	0.041	EPA 608	10/10/2017	Comp	405132750
506	**Toxaphene (8001-35-2)**	<1.4	ug/L	☐	1.4	2.9	EPA 608	10/10/2017	Comp	405132750
353	**PCB 1016 (12674-11-2)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
355	**PCB 1221 (11104282)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
356	**PCB 1232 (2921-88-2)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
357	**PCB 1242 (53469-21-9)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
359	**PCB 1248 (12672-29-6)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
361	**PCB 1254 (11097-69-1)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
363	**PCB 1260 (11096-82-5)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750

Explanation of QC Flags

Surface Water Outfall Information for outfall 006: EFFLUENT - Root River

1. Receiving Water: **ROOT RIVER**

2. Outfall Location
Describe the outfall location (for example, east bank of Wisconsin River one-quarter mile down stream of Second Street bridge)

Root River downstream of 60th Street and Oakwood in Franklin WI

3. Seasonal or Intermittent Discharges (select one of following options and provide information requested)

- ● Discharge is year round.
- ○ Discharge is intermittent (describe the frequency, duration and flow rate of each discharge occurrence, except for storm water runoff and spillage or leaks).
- ○ Discharge is seasonal (specify dates)

Date From **Through Date**

4. Effluent Flow Monitoring and Sampling Devices

Flow Monitoring Type & Age:	TBD
Flow Monitoring Location:	TBD
Effluent Sampling Type:	Refrigerated flow composite sampler
Effluent Composite Sample Location:	Effluent channel at CWP prior to split between Root and Fox River discharges
Effluent Grab Sample Location:	Same as composite sample

5. Phosphorus ○
Alternative Technology Based Effluent Limit OR Adaptive Management/Trading OR Variance:
As of December 2010, Wisconsin's phosphorus rules, NR 217 Wis. Adm. Code, were updated to include procedures for calculating water quality based effluent limits (WQBELs) for phosphorus in addition to the existing technology based limits of 1.0 mg/L and existing provisions for requesting an alternative technology-based phosphorus limit. Options available for phosphorus compliance (based on eligibility) are listed below.

a. Alternative Technology Based Effluent Limit - If you wish to request an alternative technology-based phosphorus limit, please contact your DNR representative to determine if your facility is eligible. Should you decide to pursue an alternative technology-based phosphorus limit, please use the Alternative Phosphorus Effluent Limitation Request Checklist and attach a copy to the Certification Statement.

Are you applying for an alternative technology-based phosphorus limitation?

○ Yes ● No

Surface Water Outfall Information for outfall 006: EFFLUENT - Root River	
b.	Adaptive Management/Water Quality Trading - If you wish to request either the Adaptive Management option to achieve the phosphorus water quality criteria per s. NR 217.18, Wis. Adm.Code or the Water Quality Trading option per s. 283.84, Wis. Stats., please use the applicable form (see links below) and attach a copy to the Certification Statement. Watershed Adaptive Management Request form 3200-139 Notice to Conduct Water Quality Trading form 3400-206 Are you requesting the Adaptive Management option or Water Quality Trading option to achieve phosphorus water quality compliance? ○ Yes ● No
c.	Variance PERMITEES WITH A PHOSPHORUS WATER QUALITY BASED EFFLUENT LIMIT FOR AN EXISTING SOURCE: You may apply for a variance to the phosphorus water quality standard used to calculate the water quality based effluent limits per s. 283.15, Wis. Stats. (Variance, Form 3200-143) or per s. 283.16, Wis. Stats. (Multi-Discharger Variance, Form 3200-150). PERMITEES WITH A PERMITTED STABILIZATION POND/LAGOON SYSTEM: You may apply for a variance to the phosphorus water quality based effluent limitations if your wastewater treatment system consists primarily of a stabilization pond or lagoon system per s. NR 217.19, Wis. Adm. Code. To apply for the phosphorus variance, please use the applicable form (see links below) and attach a copy to the Certification Statement. Phosphorus Variance Application for Municipal Facilities form 3200-143 Phosphorus Multi-Discharge Variance Application form 3200-150 Phosphorus Variance Application form 3200-138 for Stabilization Ponds/Lagoon Systems Are you applying for a Phosphorus variance? ○ ●
6.	Biological Toxicity Data - In the last five years, have any biological tests for acute or chronic toxicity been made on the discharge from this outfall or on the receiving water for this outfall? ● No. ○ Yes. If yes, provide all test dates and types below. Also, submit to the Department test results for those tests not previously submitted. **Dates** **Type (acute or chronic)**
7.	Chloride Variance - If your current permit contains a chloride variance and you wish the variance to continue, you must re-apply. If your effluent chloride concentration approaches or exceeds 1500 mg/L as a daily maximum (or 395 as a weekly average, if you discharge to a very low-flow stream) you may have trouble meeting effluent chloride limits. You may apply for a chloride variance under section NR 106, subchapter IV, Wisconsin Administrative Code. To apply, use the Chloride Variance Application Form 3400-193 and attach a copy to the Certification Statement. Are you applying for a chloride variance? ○ Yes ● No
8.	Mercury Variance - If your effluent mercury concentration approaches or exceeds 1.3 ng/L as a monthly average, and you discharge net quantities of mercury, you may have trouble meeting water quality based effluent limits for mercury. You may apply for a mercury variance (alternative mercury effluent limitation) under section NR 106.145, Wisconsin Administrative Code. To apply for a variance, use the Mercury Variance Application Form 3400-192 and attach a paper copy to the Certification Statement. Are you applying for a mercury variance? ○ Yes ● No

Surface Water Outfall Information for outfall 006: EFFLUENT - Root River	
9.	Temperature - Dissipative Cooling (DC) or Alternative Effluent Limit (AEL) Options available for temperature compliance (as applicable) are listed below: a) Dissipative Cooling Request - The department may account for Dissipative Cooling of the POTW's effluent in determining the need for sub-lethal temperature limits, upon request by the POTW. If you wish to request consideration of DC per s. NR 106.59 (4) or s. NR 106.59(6) Wis. Adm. Code, please use the Dissipative Cooling Request Form and attach a copy to the Certification Statement. b) Continued Consideration of Dissipative Cooling - If your current permit does not include sub-lethal temperature limits due to recognition of dissipative cooling you may request continued consideration of DC. In accordance with s. NR 106.59(8), Wis. Adm. Code, your request must: 1) Be submitted with this application; 2) Certify that there has been no substantive change in operations or loadings since the previous permit application; 3) Include any new information generated during the current permit term with certification that it is consistent with the previous permit application. Attach your request for continued consideration of DC to the Certification Statement or enter your request in the Comments section. c) Temperature Alternative Effluent Limit (AEL) - An application for an alternative effluent limitation may be submitted by the permitee if the facility is subject to effluent temperature limitations per s. NR 106.72, Wis. Adm. Code. The application for an AEL shall include a demonstration that the effluent temperature limitations are more stringent than necessary to assure protection of aquatic life. If you wish to apply for an alternative effluent temperature limit per s. NR 106.72, please use the Notice of Application for an Alternative Effluent Limit for Temperature and attach a copy to the Certification Statement. Are you applying for dissipative cooling or an alternative effluent limitation for temperature? ● ○
10.	Variance to a Water Quality Standard and/or Water Quality Trading a. Request for a Variance to a Water Quality Standard - If it is your intent to apply for a variance to any water quality standard not referenced above please refer to the DNR web page for variances at http://dnr.wi.gov/topic/wastewater/variances.html b. Request for Water Quality Trading - If it is your intent to use Water Quality Trading to demonstrate compliance with a water quality based effluent limitation, please refer to the DNR web page for trading at http://dnr.wi.gov/topic/surfacewater/waterqualitytrading.html
11.	Discharge Monitoring Report (DMR) Information Select one and give details, if appropriate. ● This is a first-time permit application for a facility that does not yet have a discharge. ○ I believe that data previously reported on DMRs for this outfall for the last 36 months are representative of the effluent quality. ○ Certain of the data previously reported on DMRs for this outfall for the last 36 months are not representative of the effluent quality. The data (give specific dates or date ranges) and the reasons for them not being representative are as follows.

12.	**Required Effluent Monitoring for Outfall 006**
a.	Permittees are required to monitor and record results in the attached Monitoring Grid for each substance listed for each municipal major outfall. If you test any parameter more frequently than indicated by the number of rows in the Grid, use the Additional Values Grid to report the results. See Table 1 of the instructions for appropriate sample types, recommended analytical methods and proper sample preservation and holding times. All samples should be representative of normal operating conditions.
b.	You may not be required to provide monitoring results of this outfall discharge. Indicate if one of the following conditions apply, please show which one applies and leave all or parts of the monitoring table blank. ● I am required to provide monitoring results. ○ I am NOT required to provide monitoring results because one of the following conditions apply. ○ I have two or more outfalls that discharge substantially identical wastewaters and I have received permission by contacting the responsible DNR staff person to only sample one of them. I am providing results for another substantially identical outfall. ○ This is a first-time permit application for a facility that does not yet have a discharge. ○ This outfall is no longer in use. ○ This outfall has a seasonal discharge that I was unable to sample prior to submitting the application. I will take the required samples once discharge resumes and send in the results as soon as possible. ○ I have received instructions in the application notification letter that I am exempt from certain standard monitoring requirements. ○ I have received instructions in the application notification letter that I may submit hard copies of the test results. I have attached them to the Certification Statement.

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
Common Pollutants										
789	**Nitrogen, Ammonia (NH3-N) Total (7664-41-7) (Submit a minimum of 4 sample results collected at least 3 days apart.)**	<0.07	mg/L	☐	0.07	0.24	SM4500 NH3D	10/1/2017	Comp	268005100
		<0.07	mg/L	☐	0.07	0.24	SM4500 NH3D	10/4/2017	Comp	268005100
		<0.07	mg/L	☐	0.07	0.24	SM4500 NH3D	10/7/2017	Comp	268005100
		<0.07	mg/L	☐	0.07	0.24	SM4500 NH3D	10/10/2017	Comp	268005100
330	**Nitrogen, Nitrite + Nitrate Total**	20.9	mg/L	☐	0.95	2.5	EPA 353.2	10/10/2017	Comp	405132750
335	**Nitrogen, Total Kjeldahl**	0.57	mg/L	☐			EPA 351.2	10/10/2017	Comp	405132750
338	**Nitrogen, Total**	21.5	mg/L	☐			calculation	10/10/2017	Comp	
105	**Chloride (16887-00-6) (Submit a minimum of 4 sample results collected at least 3 days apart.)**	521	mg/L	☐			EPA 300	10/1/2017	Comp	405132750
		539	mg/L	☐			EPA 300	10/4/2017	Comp	405132750
		537	mg/L	☐			EPA 300	11/2/2017	Comp	405132750
		514	mg/L	☐			EPA 300	11/5/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
147	**Copper, Total Recoverable (7440-50-8) (Submit a minimum of 11 sample results collected at least 3 days apart)**	<6.3	ug/L	☐	6.3	20.0	EPA 200.7	1/3/2017	Comp	405132750
		<6.3	ug/L	☐	6.3	20.0	EPA 200.7	2/6/2017	Comp	405132750
		9.5	ug/L	☐	6.3	20.0	EPA 200.7	3/3/2017	Comp	405132750
		7.3	ug/L	☐	6.3	20.0	EPA 200.7	4/5/2017	Comp	405132750
		<6.3	ug/L	☐	6.3	20.0	EPA 200.7	5/1/2017	Comp	405132750
		10.9	ug/L	☐	6.3	20.0	EPA 200.7	6/5/2017	Comp	405132750
		9.5	ug/L	☐	6.3	20.0	EPA 200.7	7/3/2017	Comp	405132750
		9.7	ug/L	☐	6.3	20.0	EPA 200.7	8/16/2017	Comp	405132750
		8.3	ug/L	☐	6.3	20.0	EPA 200.7	9/5/2017	Comp	405132750
		<6.3	ug/L	☐	6.3	20.0	EPA 200.7	10/10/2017	Comp	405132750
		<6.3	ug/L	☐	6.3	20.0	EPA 200.7	11/1/2017	Comp	405132750
Explanation of QC Flags										
Metals, Cyanide, Hardness and Phenols										
31	**Antimony, Total Recoverable (7440360)**	<7.6	ug/L	☐	7.6	25.0	EPA 200.7	10/10/2017	Comp	405132750
35	**Arsenic, Total Recoverable (7440-38-2)**	<8.3	ug/L	☐	8.3	25.0	EPA 200.7	10/10/2017	Comp	405132750
50	**Beryllium, Total Recoverable (7440417)**	<1.2	ug/L	☐	1.2	4.0	EPA 200.7	10/10/2017	Comp	405132750
87	**Cadmium, Total Recoverable (7440-43-9)**	<1.3	ug/L	☐	1.3	5.0	EPA 200.7	10/10/2017	Comp	405132750
127	**Chromium +6 (18540-29-9)**	<5.1	ug/L	☐	5.1	17	SM3500CRB	10/10/2017	Grab	405132750
133	**Chromium, Total Recoverable (7440-47-3)**	<2.5	ug/L	☐	2.5	10.0	EPA 200.7	10/10/2017	Comp	405132750
155	**Cyanide, Total (57-12-5)**	<6.7	ug/L	☐	6.7	22.4	SM4500CNE	10/10/2017	Grab	999446800
152	**Cyanide, Amenable (57-12-5)**	<6.7	ug/L	☐	6.7	22.4	SM4500CNG	10/10/2017	Grab	999446800

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
264	**Lead, Total Recoverable (7439-92-1)**	7.4	ug/L	☐	4.3	13.0	EPA 200.7	10/10/2017	Comp	405132750
280	**Mercury, Total Recoverable (7439976)**	<0.20	ng/L	☐	0.20	0.50	EPA 1631E	10/10/2017	Grab	405132750
315	**Nickel, Total Recoverable (7440-02-0)**	3.8	ug/L	☐	2.6	10.0	EPA 200.7	10/10/2017	Comp	405132750
423	**Selenium, Total Recoverable (7782-49-2)**	<16.6	ug/L	☐	16.6	50.0	EPA 200.7	10/10/2017	Comp	405132750
430	**Silver, Total Recoverable (7440-22-4)**	<3.3	ug/L	☐	3.3	10.0	EPA 200.7	10/10/2017	Comp	405132750
494	**Thallium, Total Recoverable (7440-28-0)**	<7.4	ug/L	☐	7.4	40.0	EPA 200.7	10/10/2017	Comp	405132750
553	**Zinc, Total Recoverable (7440-66-6)**	13.9	ug/L	☐	9.3	40.0	EPA 200.7	10/10/2017	Comp	405132750
231	**Hardness, Total as CaCO3 (Submit a minimum of 4 sample results collected at 3 days apart.)**	376	mg/L	☐			EPA 200.7	10/1/2017	Comp	405132750
		381	mg/L	☐			EPA 200.7	10/5/2017	Comp	405132750
		396	mg/L	☐			EPA 200.7	10/10/2017	Comp	405132750
		410	mg/L	☐			EPA 200.7	10/25/2017	Comp	405132750
382	**Phenols, Total**	<3.9	ug/L	☐	3.9	13.1	EPA 420.4	10/10/2017	Comp	999407970
Explanation of QC Flags										
Volatile Organics										
6	**Acrolein (107-02-8)**	<10.0	ug/L	☐	10.0	20.0	EPA 624	10/10/2017	Grab	405132750
8	**Acrylonitrile (107-13-1)**	<2.3	ug/L	☐	2.3	5.0	EPA 624	10/10/2017	Grab	405132750
40	**Benzene (71-43-2)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
174	**Dichlorobromo- methane (bromo-dichloromethane) (75-27-4)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
80	**Bromoform (75-25-2)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
93	**Carbon tetrachloride (56-23-5)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
113	**Chlorobenzene (108-90-7)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
115	**Chlorodibromo-methane (124-48-1)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
117	**Chloroethane (75003)**	<0.37	ug/L	☐	0.37	1.0	EPA 624	10/10/2017	Grab	405132750
118	**Chloroform (67-66-3)**	<2.5	ug/L	☐	2.5	5.0	EPA 624	10/10/2017	Grab	405132750
584	**1,3-Dichloropropylene (542-75-6)**	<0.73	ug/L	☐	0.73	2.0	EPA 624	10/10/2017	Grab	405132750
568	**1,2-Dichloro- benzene**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
581	**1,3-Dichloro- benzene (541731)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
587	**1,4-Dichloro- benzene (106-46-7)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
556	**1,1-Dichloro- ethane (75-34-3)**	<0.24	ug/L	☐	0.24	1.0	EPA 624	10/10/2017	Grab	405132750
570	**1,2-Dichloro- ethane (107-06-2)**	<0.17	ug/L	☐	0.17	1.0	EPA 624	10/10/2017	Grab	405132750
558	**1,1-Dichloro- ethylene (75-35-4)**	<0.41	ug/L	☐	0.41	1.0	EPA 624	10/10/2017	Grab	405132750
576	**1,2-trans Dichloroethylene (156-60-5)**	<0.26	ug/L	☐	0.26	1.0	EPA 624	10/10/2017	Grab	405132750
573	**1,2-Dichloropropane (78-87-5)**	<0.23	ug/L	☐	0.23	4.0	EPA 624	10/10/2017	Grab	405132750
589	**2-Chloroethyl vinyl ether (110-75-8)**	<1.9	ug/L	☐	1.9	5.0	EPA 624	10/10/2017	Grab	405132750
200	**Ethylbenzene (100414)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
82	**Methyl bromide (74839)**	<2.4	ug/L	☐	2.4	5.0	EPA 624	10/10/2017	Grab	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
120	**Chloromethane (74873)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
285	**Methylene chloride (75092)**	<0.23	ug/L	☐	0.23	4.0	EPA 624	10/10/2017	Grab	405132750
565	**1,1,2,2-Tetrachloro- ethane (79-34-5)**	<0.25	ug/L	☐	0.25	1.0	EPA 624	10/10/2017	Grab	405132750
490	**Tetrachloroethylene (127-18-4)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
500	**Toluene (108-88-3)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
561	**1,1,1-Trichloro- ethane (71-55-6)**	<0.50	ug/L	☐	0.50	1.0	EPA 624	10/10/2017	Grab	405132750
563	**1,1,2-Trichloro- ethane (79-00-5)**	<0.20	ug/L	☐	0.20	1.0	EPA 624	10/10/2017	Grab	405132750
508	**Trichloro- ethylene (79-01-6)**	<0.33	ug/L	☐	0.33	1.0	EPA 624	10/10/2017	Grab	405132750
517	**Vinyl chloride (75-01-4)**	<0.18	ug/L	☐	0.18	1.0	EPA 624	10/10/2017	Grab	405132750
Explanation of QC Flags										
Acid Extractable Compounds (Phenols)										
592	**2-Chlorophenol (95-57-8)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
603	**2,4-Dichlorophenol (120-83-2)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
604	**2,4-Dimethyl- phenol (105-67-9)**	<0.89	ug/L	☐	0.89	4.8	EPA 625	10/10/2017	Comp	405132750
605	**2,4-Dinitrophenol (51-28-5)**	<0.82	ug/L	☐	0.82	9.5	EPA 625	10/10/2017	Comp	405132750
349	**P-Chloro-m-Cresol (3-methyl-4-chlorophenol) (59-50-7)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
593	**2-Methyl-4,6- dinitrophenol (534521)**	<0.59	ug/L	☐	0.59	4.8	EPA 625	10/10/2017	Comp	405132750
596	**2-Nitrophenol (88-75-5)**	<0.81	ug/L	☐	0.81	4.8	EPA 625	10/10/2017	Comp	405132750
624	**4-Nitrophenol (100-02-7)**	<0.56	ug/L	☐	0.56	9.5	EPA 625	10/10/2017	Comp	405132750
368	**Pentachloro- phenol (87-86-5)**	1.9	ug/L	☐	0.71	9.5	EPA 625	10/10/2017	Comp	405132750
633	**Phenol (108-95-2)**	1.4	ug/L	☐	0.52	4.8	EPA 625	10/10/2017	Comp	405132750
608	**2,4,6-Trichloro- phenol (88-06-2)**	<1.0	ug/L	☐	1.0	4.8	EPA 625	10/10/2017	Comp	405132750
Explanation of QC Flags										
Base/Neutral Compounds										
867	**Acenaphthene (83-32-9)**	<0.91	ug/L	☐	0.91	4.8	EPA 625	10/10/2017	Comp	405132750
4	**Acenaphthylene (208-96-8)**	<0.95	ug/L	☐	0.95	4.8	EPA 625	10/10/2017	Comp	405132750
42	**Benzidine (92-87-5)**	<26.8	ug/L	☐	26.8	47.6	EPA 625	10/10/2017	Comp	405132750
61	**Bis(2-Chloroethoxy) methane (111-91-1)**	<0.96	ug/L	☐	0.96	4.8	EPA 625	10/10/2017	Comp	405132750
62	**Bis(2-Chloroethyl)ether (111-44-4)**	<0.70	ug/L	☐	0.70	4.8	EPA 625	10/10/2017	Comp	405132750
63	**Bis(2-Chloroisopropyl) ether (66-56-8)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
64	**Bis(2-Ethylhexyl) phthalate (117-81-7)**	5.4	ug/L	☐	0.73	4.8	EPA 625	10/10/2017	Comp	405132750
621	**4-Bromophenyl-plenyl ether (101-55-3)**	<0.48	ug/L	☐	0.48	4.8	EPA 625	10/10/2017	Comp	405132750
84	**Butyl benzyl phthalate (85-68-7)**	<0.72	ug/L	☐	0.72	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
591	**2-Chloronaphthalene (91-58-7)**	<1.0	ug/L	☐	1.0	4.8	EPA 625	10/10/2017	Comp	405132750
622	**4-Chloro-phenyl-phenyl ether (7005-72-3)**	<0.90	ug/L	☐	0.90	4.8	EPA 625	10/10/2017	Comp	405132750
617	**3,3'-Dichlorobenzidine (91-94-1)**	<1.3	ug/L	☐	1.3	4.8	EPA 625	10/10/2017	Comp	405132750
178	**Diethyl phthalate (84-66-2)**	<0.51	ug/L	☐	0.51	4.8	EPA 625	10/10/2017	Comp	405132750
181	**Dimethyl phthalate (131-11-3)**	<0.69	ug/L	☐	0.69	4.8	EPA 625	10/10/2017	Comp	405132750
167	**Di-n-butyl phthalate (dibutyl phthalate) (84-74-2)**	<0.91	ug/L	☐	0.91	4.8	EPA 625	10/10/2017	Comp	405132750
606	**2,4-Dinitro- toluene (121-14-2)**	<0.95	ug/L	☐	0.95	4.8	EPA 625	10/10/2017	Comp	405132750
612	**2,6-Dinitro- toluene (606-20-2)**	<1.5	ug/L	☐	1.5	4.8	EPA 625	10/10/2017	Comp	405132750
169	**Di-n-octyl phthalate (117-84-0)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
574	**1,2-Diphenylhydrazine (122-66-7)**	<1.2	ug/L	☐	1.2	4.8	EPA 625	10/10/2017	Comp	405132750
240	**Hexachloroethane (67721)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
253	**Isophorone (78-59-1)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
302	**N-Nitrosodimethyl-amine (62-75-9)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
304	**N-Nitrosodiphenyl-amine (86-30-6)**	<2.1	ug/L	☐	2.1	9.5	EPA 625	10/10/2017	Comp	405132750
299	**N-Nitrosodi-n-propylamine (319-84-6)**	<0.97	ug/L	☐	0.97	4.8	EPA 625	10/10/2017	Comp	405132750
307	**Naphthalene (91-20-3)**	<0.67	ug/L	☐	0.67	4.8	EPA 625	10/10/2017	Comp	405132750
317	**Nitrobenzene (98953)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
577	**1,2,4-Trichloro- benzene (120-82-1)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
234	**Hexachlorobenzene (118-74-1)**	<0.54	ug/L	☐	0.54	4.8	EPA 625	10/10/2017	Comp	405132750
236	**Hexachlorobutadiene (87683)**	<1.7	ug/L	☒	1.7	9.5	EPA 625	10/10/2017	Comp	405132750
238	**Hexachlorocyclo-pentadiene (77-47-4)**	<0.86	ug/L	☐	0.86	4.8	EPA 625	10/10/2017	Comp	405132750
28	**Anthracene (120-12-7)**	<0.60	ug/L	☐	0.60	4.8	EPA 625	10/10/2017	Comp	405132750
43	**Benzo(a)anthracene (56-55-3)**	<0.58	ug/L	☐	0.58	4.8	EPA 625	10/10/2017	Comp	405132750
44	**Benzo(a)pyrene (50-32-8)**	<0.92	ug/L	☐	0.92	4.8	EPA 625	10/10/2017	Comp	405132750
45	**Benzo(b)fluoranthene (205-99-2)**	<1.4	ug/L	☐	1.4	4.8	EPA 625	10/10/2017	Comp	405132750
46	**Benzo(ghi)perylene (191-24-2)**	<0.73	ug/L	☐	0.73	4.8	EPA 625	10/10/2017	Comp	405132750
47	**Benzo(k)fluoranthene (207-08-9)**	<0.98	ug/L	☐	0.98	4.8	EPA 625	10/10/2017	Comp	405132750
135	**Chrysene (218-01-9)**	<0.74	ug/L	☐	0.74	4.8	EPA 625	10/10/2017	Comp	405132750
172	**Dibenzo(a,h)-anthracene (53-70-3)**	<1.3	ug/L	☐	1.3	4.8	EPA 625	10/10/2017	Comp	405132750
213	**Fluoranthene (206-44-0)**	<0.87	ug/L	☐	0.87	4.8	EPA 625	10/10/2017	Comp	405132750
215	**Fluorene (86-73-7)**	<1.1	ug/L	☐	1.1	4.8	EPA 625	10/10/2017	Comp	405132750
244	**Indeno(1,2,3-cd)-pyrene (193-39-5)**	<0.64	ug/L	☐	0.64	4.8	EPA 625	10/10/2017	Comp	405132750
380	**Phenanthrene (85-01-8)**	<0.60	ug/L	☐	0.60	4.8	EPA 625	10/10/2017	Comp	405132750
403	**Pyrene (129-00-0)**	<1.5	ug/L	☐	1.5	4.8	EPA 625	10/10/2017	Comp	405132750
Explanation of QC Flags										

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
	Code 236 - Analyte recovery in lab control sample was above QC limits. Results may be biased higher.									
Pesticides										
16	**Aldrin (309002)**	<0.0071	ug/L	☐	0.0071	0.024	EPA 608	10/10/2017	Comp	405132750
56	**BHC, alpha (319846)**	<0.0075	ug/L	☐	0.0075	0.25	EPA 608	10/10/2017	Comp	405132750
51	**BHC, beta (319-85-7)**	<0.0077	ug/L	☐	0.0077	0.026	EPA 608	10/10/2017	Comp	405132750
57	**BHC, delta (319868)**	<0.011	ug/L	☐	0.011	0.037	EPA 608	10/10/2017	Comp	405132750
58	**BHC, gamma (Lindane) (58899)**	<0.0060	ug/L	☐	0.0060	0.020	EPA 608	10/10/2017	Comp	405132750
103	**Chlordane (57-74-9)**	<0.21	ug/L	☐	0.21	0.69	EPA 608	10/10/2017	Comp	405132750
629	**4,4'-DDT (50-29-3)**	<0.014	ug/L	☐	0.014	0.045	EPA 608	10/10/2017	Comp	405132750
628	**4,4'-DDE (72-55-9)**	<0.018	ug/L	☐	0.018	0.058	EPA 608	10/10/2017	Comp	405132750
627	**4,4'-DDD (72-54-8)**	<0.013	ug/L	☐	0.013	0.045	EPA 608	10/10/2017	Comp	405132750
176	**Dieldrin (60-57-1)**	<0.013	ug/L	☐	0.013	0.042	EPA 608	10/10/2017	Comp	405132750
194	**Endosulfan alpha (959-98-8)**	<0.0092	ug/L	☐	0.0092	0.031	EPA 608	10/10/2017	Comp	405132750
195	**Endosulfan beta (33213-65-9)**	<0.023	ug/L	☐	0.023	0.076	EPA 608	10/10/2017	Comp	405132750
196	**Endosulfan sulfate (1031-07-8)**	<0.014	ug/L	☐	0.014	0.047	EPA 608	10/10/2017	Comp	405132750
197	**Endrin (72-20-8)**	<0.015	ug/L	☐	0.015	0.050	EPA 608	10/10/2017	Comp	405132750
198	**Endrin aldehyde (7421934)**	<0.015	ug/L	☐	0.015	0.049	EPA 608	10/10/2017	Comp	405132750

Code	Name	Sample Result	Units	QC Flag	LOD	LOQ	Analytical Method	Sample Collection Date	Sample Type	Lab ID
232	**Heptachlor (76-44-8)**	<0.0062	ug/L	☐	0.0062	0.021	EPA 608	10/10/2017	Comp	405132750
233	**Heptachlorepoxide (1024-57-3)**	<0.012	ug/L	☐	0.012	0.041	EPA 608	10/10/2017	Comp	405132750
506	**Toxaphene (8001-35-2)**	<1.4	ug/L	☐	1.4	2.9	EPA 608	10/10/2017	Comp	405132750
353	**PCB 1016 (12674-11-2)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
355	**PCB 1221 (11104282)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
356	**PCB 1232 (2921-88-2)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
357	**PCB 1242 (53469-21-9)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
359	**PCB 1248 (12672-29-6)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
361	**PCB 1254 (11097-69-1)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750
363	**PCB 1260 (11096-82-5)**	<0.24	ug/L	☐	0.24	0.48	EPA 608	10/10/2017	Comp	405132750

Explanation of QC Flags

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 002: Anaerobic Belt Pressed

1. Existing Sludge Generating Units (check all that apply)

- [ ] Flow Equalization
- [x] Coagulation/Flocculation
- [ ] Sequencing Batch Reactor
- [ ] Comminution
- [ ] Grit Chamber
- [ ] Aerated Grit Chamber
- [x] Primary Clarification
- [x] Conventional-Activated Sludge
- [ ] Extended Aeration
- [ ] Oxidation Ditch
- [ ] Pure Oxygen
- [ ] Two Stage-Activated Sludge
- [ ] Screening
- [ ] Contact Stabilization
- [ ] Fill and Draw
- [ ] Chemical Precipitation
- [ ] Phosphorous Removal-Biological
- [ ] Phosphorous Removal-Alum
- [x] Phosphorous Removal-Ferric Chloride
- [ ] Phosphorous Removal-Ferric Sulfate
- [x] Secondary Clarification
- [ ] Rotating Biological Contactors
- [ ] Septic Tank ==> When was septage last removed?
- [ ] Polishing Pond ==> When was sludge last removed?
- [ ] Aerated Lagoon ==> When was sludge last removed?
- [ ] Stabilization Pond ==> When was sludge last removed?
- [ ] Other (Specify)

2. Sludge Production - Estimate annual sludge production and method of disposition for this outfall. Check all that apply and specify amounts in dry U.S. tons. (See instructions for conversion formulas, if necessary)

[x] Sludge that you estimate will be generated	1,352	(dry U.S. tons)
[ ] Sludge to be landfilled		(dry U.S. tons)
[x] Sludge to be land applied	1,352	(dry U.S. tons)
[ ] Sludge to be hauled to another facility		(dry US tons)
[ ] Sludge to be distributed or land applied as Exceptional Quality (EQ) sludge		(dry US tons)
[ ] Other (explain in box)		(dry US tons)

- [ ] Do not produce sludge (explain)

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 002: Anaerobic Belt Pressed

3. Screenings and Grit Disposal - Will screenings and grit be disposed at a sanitary landfill?

- ● Yes. If yes, identify the landfill and provide the license number below:
  - Landfill Name: Emerald Park landfill
  - License Number: 3290
- ○ No. Screenings and grit are not disposed of at a sanitary landfill. If no, explain why not in the space below.
- ○ No screenings or grit are generated.

4. Sludge Storage

a. Is sludge storage provided?

- ● Storage is provided
- ☒ On-Site
- ☐ Off-Site - Self Owned
- ☐ Off-Site - Contracted (provide the information requested below)
  - Name:
  - Contact:
  - Mailing Address:
  - P.O. Box, Street Address or Route:
  - City or Village, State and Zip Code:
  - Telephone Number:
- ○ No storage is provided

b. How many days of sludge storage are provided for this outfall? (If none, enter 0) 180 Days.

c. Estimate the capacity of all sludge storage facilities. (Answer at least one)

2.4 MG gallons | 8,000 cubic yards | dry U.S. tons

d. Select sludge type that is being stored. ○ Liquid ○ Cake ● Both ○ None

e. If no storage is provided or if less than 180 days of storage for this outfall is provided, please indicate why:

- ☐ Sludge storage is in planning or construction stage
- ☐ Have treatment lagoon system
- ☐ Sludge is landfilled
- ☐ Sludge is incinerated
- ☐ Sludge is hauled to another permitted facility (provide the information requested below)
  - Facility Name:
  - WPDES Permit No:
  - FID No:
- ☐ Other (explain)

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 002: Anaerobic Belt Pressed

5. Sludge Transportation - Who will haul the sludge to the disposal site for this outfall? (Check all that apply)

- [ ] Plant Personnel
- [x] Contract Hauler (provide the information requested below)

Business Name: United Liquid Waste

Contact person: Nick Manzke

License Number (if certified): WI-006154-03-0

- [ ]

6. Sludge Treatment & Thickening Prior to Final Disposition

a. Treatment (check all that apply)

- [ ] Aerobic Digestion
- [x] Anaerobic Digestion
- [ ] Air Drying (Drying Beds)
- [ ] Composting w/yard waste (class B)
- [ ] Composting w/msw or other (class B)
- [ ] Alkaline Stabilization (class B)
- [ ] PSRP Equivalent
- [ ] Temp/Time based on %Solids
- [ ] Alkaline Stabilization (class A)
- [ ] Prior test for enteric virus/viable ova
- [ ] Post test for enteric virus/viable ova
- [ ] Composting w/yard waste (class A)
- [ ] Composting w/msw or other (class A)
- [ ] Heat Drying
- [ ] Heat Treatment
- [ ] Autothermophilic Aerobic Digestion (ATAD)
- [ ] Beta Ray irradiation
- [ ] Gamma Ray irradiation
- [ ] Pasteurization
- [ ] PFRP Equivalent
- [ ] Hauled to other facility
- [ ] Lagoon system
- [ ] Reed Beds
- [ ] Other (please specify)

b. Thickening (check all that apply)

- [ ] Gravity Thickening Tank
- [ ] Pressure Filter
- [ ] Belt Press
- [ ] Drying Beds
- [ ] Gravity Belt Thickener
- [x] Centrifuge
- [x] Dissolved air floatation (DAF or AFT)
- [ ] Plate Press
- [ ] Vacuum Filter
- [ ] None
- [ ] Other (please specify)

7. Sludge/Biosolids Use and Disposal - How do you plan to use/dispose of your sludge/biosolids for this outfall? (Check all that apply)

- [x] Land Application
- [ ] Haul to other permitted facility
- [ ] Exceptional Quality Bulk
- [ ] Exceptional Quality Bag
- [ ] Landfill
- [ ] Incinerate
- [ ] Lagoon - Do not plan to disposal of sludge this permit term
- [ ] Other (please specify)

8. Where do you or will you collect your sludge sample for analysis?

Discharge from centrifuge and composite from storage bays prior to land application

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 002: Anaerobic Belt Pressed

9. Pathogen Control - What level of pathogen control do you achieve? (per NR 204.07(6), Wisconsin Administrative Code)

○ Class A ● Class B ○ Do not land apply

If Class A, what organism do you test for compliance in addition to treatment?

○ Fecal Coliform ○ Salmonella

If Class B, how do you show compliance?

○ Fecal Coliform ○ Process control as indicated above in item 6a ● Both

10. Vector Control - What option do you use to satisfy vector control requirements? (per NR 204.07(7), Wisconsin Administrative Code)

- ☐ Volatile Solids Reduction
- ☐ Aerobic SOUR Test
- ☐ Aerobic Bench Scale
- ☐ Anaerobic Bench Scale
- ☐ Drying With Unstabilized Solids
- ☐ Drying With Stabilized Solids
- ☐ Aerobic Composting Process
- ☐ pH Adjustment of Sludge
- ☐ Injection when land applied
- ☒ Incorporation when land applied
- ☐ Approved Equivalent Process
- ☐ Do not land apply

11. High Quality Limits - Did you satisfy all high quality pollutant concentrations throughout your last permit term? (per NR 204.07(5)(c))

● Yes ○ No ○ Did not monitor

If no, what pollutants exceeded the high quality limits and what, if any steps were taken to address the source?

12. Ceiling Limits - Did you satisfy all ceiling limit concentrations throughout your last permit term? (per NR 204.07(5)(a))

● Yes ○ No ○ Did not monitor

If no, what pollutants exceeded the ceiling limits and what, if any steps were taken to address the source?

13. Exceptional Quality Biosolids - Do you produce exceptional quality biosolids? (per NR 204.07(4)(a))

○ Yes ● No ○ Not Applicable

NOTE: Please notify the Department of Natural Resources of any changes in facilities and/or operations as described in this section of the application.

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 005: Liquid Sludge

1. Existing Sludge Generating Units (check all that apply)

- [ ] Flow Equalization
- [x] Coagulation/Flocculation
- [ ] Sequencing Batch Reactor
- [ ] Comminution
- [ ] Grit Chamber
- [ ] Aerated Grit Chamber
- [x] Primary Clarification
- [x] Conventional-Activated Sludge
- [ ] Extended Aeration
- [ ] Oxidation Ditch
- [ ] Pure Oxygen
- [ ] Two Stage-Activated Sludge
- [ ] Screening
- [ ] Contact Stabilization
- [ ] Fill and Draw
- [ ] Chemical Precipitation
- [ ] Phosphorous Removal-Biological
- [ ] Phosphorous Removal-Alum
- [x] Phosphorous Removal-Ferric Chloride
- [ ] Phosphorous Removal-Ferric Sulfate
- [x] Secondary Clarification
- [ ] Rotating Biological Contactors
- [ ] Septic Tank ==> When was septage last removed?
- [ ] Polishing Pond ==> When was sludge last removed?
- [ ] Aerated Lagoon ==> When was sludge last removed?
- [ ] Stabilization Pond ==> When was sludge last removed?
- [ ] Other (Specify)

2. Sludge Production - Estimate annual sludge production and method of disposition for this outfall. Check all that apply and specify amounts in dry U.S. tons. (See instructions for conversion formulas, if necessary)

- [ ] Sludge that you estimate will be generated ____ (dry U.S. tons)
- [ ] Sludge to be landfilled ____ (dry U.S. tons)
- [ ] Sludge to be land applied ____ (dry U.S. tons)
- [ ] Sludge to be hauled to another facility ____ (dry US tons)
- [ ] Sludge to be distributed or land applied as Exceptional Quality (EQ) sludge ____ (dry US tons)
- [x] Other (explain in box) 200 (dry US tons)

Liquid sludge is only from cleaning digesters or storage tank. Normal sludge produced is dewatered.

- [ ] Do not produce sludge (explain)

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 005: Liquid Sludge

3. Screenings and Grit Disposal - Will screenings and grit be disposed at a sanitary landfill?

- ● Yes. If yes, identify the landfill and provide the license number below:
  - Landfill Name: Emerald Park landfill
  - License Number: 3290
- ○ No. Screenings and grit are not disposed of at a sanitary landfill. If no, explain why not in the space below.
- ○ No screenings or grit are generated.

4. Sludge Storage

a. Is sludge storage provided?

- ● Storage is provided
- ☒ On-Site
- ☐ Off-Site - Self Owned
- ☐ Off-Site - Contracted (provide the information requested below)
  - Name:
  - Contact:
  - Mailing Address:
  - P.O. Box, Street Address or Route:
  - City or Village, State and Zip Code:
  - Telephone Number:
- ○ No storage is provided

b. How many days of sludge storage are provided for this outfall? (If none, enter 0) 75 Days.

c. Estimate the capacity of all sludge storage facilities. (Answer at least one)

2.4 MG gallons | 8,000 cubic yards | dry U.S. tons

d. Select sludge type that is being stored. ○ Liquid ○ Cake ● Both ○ None

e. If no storage is provided or if less than 180 days of storage for this outfall is provided, please indicate why:

- ☐ Sludge storage is in planning or construction stage
- ☐ Have treatment lagoon system
- ☐ Sludge is landfilled
- ☐ Sludge is incinerated
- ☐ Sludge is hauled to another permitted facility (provide the information requested below)
  - Facility Name:
  - WPDES Permit No:
  - FID No:
- ☒ Other (explain)

We typically dewater our bio-solids and have 8,000 cubic yards(>180 days)storage, however we have a 2.4 MG liquid sludge storage tank that will hold 75 days (32,000 gpd)worth of generation if needed. We also have our 3 digesters in series with the third 1 MG unit available for additional storage. We can draw from digester #2 or 3, or storage tank for dewatering. Liquid sludge in storage tank is only from digester cleaning.

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 005: Liquid Sludge

5. Sludge Transportation - Who will haul the sludge to the disposal site for this outfall? (Check all that apply)

- ☐ Plant Personnel
- ☒ Contract Hauler (provide the information requested below)

Business Name: United Liquid Waste

Contact person: Nick Manzke

License Number (if certified): WI-006154-03-0

- ☐

6. Sludge Treatment & Thickening Prior to Final Disposition

a. Treatment (check all that apply)

☐ Aerobic Digestion	☐ Composting w/msw or other (class A)
☒ Anaerobic Digestion	☐ Heat Drying
☐ Air Drying (Drying Beds)	☐ Heat Treatment
☐ Composting w/yard waste (class B)	☐ Autothermophilic Aerobic Digestion (ATAD)
☐ Composting w/msw or other (class B)	☐ Beta Ray irradiation
☐ Alkaline Stabilization (class B)	☐ Gamma Ray irradiation
☐ PSRP Equivalent	☐ Pasteurization
☐ Temp/Time based on %Solids	☐ PFRP Equivalent
☐ Alkaline Stabilization (class A)	☐ Hauled to other facility
☐ Prior test for enteric virus/viable ova	☐ Lagoon system
☐ Post test for enteric virus/viable ova	☐ Reed Beds
☐ Composting w/yard waste (class A)	☐ Other (please specify)

b. Thickening (check all that apply)

☐ Gravity Thickening Tank	☒ Dissolved air floatation (DAF or AFT)
☐ Pressure Filter	☐ Plate Press
☐ Belt Press	☐ Vacuum Filter
☐ Drying Beds	☐ None
☐ Gravity Belt Thickener	☐ Other (please specify)
☐ Centrifuge	

7. Sludge/Biosolids Use and Disposal - How do you plan to use/dispose of your sludge/biosolids for this outfall? (Check all that apply)

☒ Land Application	☐ Landfill
☐ Haul to other permitted facility	☐ Incinerate
☐ Exceptional Quality Bulk	☐ Lagoon - Do not plan to disposal of sludge this permit term
☐ Exceptional Quality Bag	☐ Other (please specify)

8. Where do you or will you collect your sludge sample for analysis?

Sludge storage tank recirculation pump

Land Application Discharge - General Sludge/Biosolids Management Information for Outfall 005: Liquid Sludge

9. Pathogen Control - What level of pathogen control do you achieve? (per NR 204.07(6), Wisconsin Administrative Code)

○ Class A ● Class B ○ Do not land apply

If Class A, what organism do you test for compliance in addition to treatment?

○ Fecal Coliform ○ Salmonella

If Class B, how do you show compliance?

○ Fecal Coliform ○ Process control as indicated above in item 6a ● Both

10. Vector Control - What option do you use to satisfy vector control requirements? (per NR 204.07(7), Wisconsin Administrative Code)

☐ Volatile Solids Reduction	☐ Aerobic Composting Process
☐ Aerobic SOUR Test	☐ pH Adjustment of Sludge
☐ Aerobic Bench Scale	☒ Injection when land applied
☐ Anaerobic Bench Scale	☐ Incorporation when land applied
☐ Drying With Unstabilized Solids	☐ Approved Equivalent Process
☐ Drying With Stabilized Solids	☐ Do not land apply

11. High Quality Limits - Did you satisfy all high quality pollutant concentrations throughout your last permit term? (per NR 204.07(5)(c))

● Yes ○ No ○ Did not monitor

If no, what pollutants exceeded the high quality limits and what, if any steps were taken to address the source?

12. Ceiling Limits - Did you satisfy all ceiling limit concentrations throughout your last permit term? (per NR 204.07(5)(a))

● Yes ○ No ○ Did not monitor

If no, what pollutants exceeded the ceiling limits and what, if any steps were taken to address the source?

13. Exceptional Quality Biosolids - Do you produce exceptional quality biosolids? (per NR 204.07(4)(a))

○ Yes ● No ○ Not Applicable

NOTE: Please notify the Department of Natural Resources of any changes in facilities and/or operations as described in this section of the application.

Additional Comments (if none write none)

1. The effluent temperature data reported on DMRs demonstrates that there is not significant difference in effluent temperature from when the Dissipative Cooling Study was completed. Consequently, the City of Waukesha is requesting continued consideration of Dissipative Cooling for the discharge to the Fox River.

   The Dissipative Cooling Request Form for the Root River outfall 006 is included in Appendix A of the Waukesha Clean Water Plant Return Flow Dissipative Colling Application Analysis report. The report is included with the signed Permit Application Certification Statement.

   Phosphorus performance reported on DMR's for outfall 001 for the past year are not necessarily predictive of the future due to low flows.

   In accordance with the existing Fox River discharge permit, the City submitted a phosphorus Final Compliance Alternatives Plan based on a Fox River discharge only. That report will need to be supplemented by additional analysis to allow for final selection and construction of the phosphorus treatment technology to meet a new phosphorus effluent limit for a dual discharge to the Fox and Root Rivers.

WPDES Permit Application Certification Statement

Facility Name:	**WAUKESHA CITY**				
Permit Number:	**0029971-09-0**	Facility Contact:	**Jeff Harenda**		
Contact Address:	**600 Sentry Dr**	E-Mail:	**jharenda@ci.waukesha.wi.us**		
	Waukesha, WI 53186	Phone Number:	**(262) 524-3629**	Application ID:	**6367**

Submittal of your permit application, including this certification document, is required by sections 283.37 and 283.53, Wis. Stats., and chapter NR 200, Wis. Admin. Code.

Personally identifiable information collected on this document or submitted in your electronic permit application will be used for administering the the WPDES permit and related programs and is unlikely to be used for other purposes. This does not include passwords or User IDs. DNR is required to provide non-confidential information to any person who requests it under the Open Records law. Such information may be provided to the public in its original form or in an electronic report.

I certify under penalty of law that this permit application submitted to DNR on 12/21/2017 and identified by the APPLICATION ID listed above, and authenticated by the document key number listed below, and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please call **Laura Dietrich** at **(414) 263-8651**.

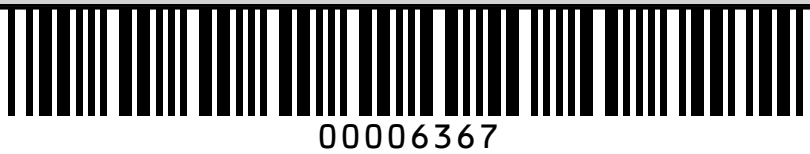
Return Certification to:
WI Dept of Natural Resources
Laura Dietrich
2300 N Dr Martin Luther King Jr Dr
Milwaukee, WI 53212

_____ _____
Authorized Representative Signature Date

_____ _____
Submitter Signature, if different than Authorized Representative Date

Jeff Harenda electronically submitted this data on **12/21/2017**.

For DNR Use Only:



Date Received:	_____	FIN:	**6308**	FID:	**268005100**
Date Certified:	_____	Region:	**Southeast Region**		

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