

NPDES Permit No. IL0028126

Notice No. kar05132015

Public Notice Beginning Date: **May 22, 2015**

Public Notice Ending Date: **June 22, 2015**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

PUBLIC NOTICE/FACT SHEET  
of  
Draft Modified NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois EPA  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Permittee:

City of Chrisman  
222 West Madison Street  
Chrisman, Illinois 61924

Name and Address of Facility:

City of Chrisman STP  
700 East Wadington  
Chrisman, Illinois  
(Edgar County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES Permit to discharge into the waters of the state and has prepared a draft Permit and associated fact sheet for the above named Permittee. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. Interested persons are invited to submit written comments on the draft Permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the Permit applicant. The NPDES Permit and notice numbers must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft Permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft Permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final Permit is issued. For further information, please call Keith Runge at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating domestic wastewater for the City of Chrisman.

The length of the Permit is approximately 2 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, North Fork of Brouilletts Creek is 0 cfs.

The design average flow (DAF) for the facility is 0.12 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 0.24 MGD. Treatment consists of screening, comminutor, Imhoff tank, trickling filter, secondary settling, intermittent sand filtration and excess flow clarifier. Sludge is treated by anaerobic digestion and drying beds and the sludge is land applied but can also be disposed of by landfill.

This Modified Permit does not increase the facility's DAF, DMF, concentration limits, and/or load limits.

Pursuant to the waiver provisions authorized by 40 CFR § 123.24, this draft permit is within the class, type, and size for which the Regional Administrator, Region V, has waived his right to review, object, or comment on this draft permit action.

This Permit recognizes and continues the year-round disinfection exemption approved by the IEPA on June 13, 1989 and August 12, 2010 and included in past NPDES permit actions since that date. It is the IEPA's tentative decision that under Illinois Pollution Control Board regulations, the following reach of waterbody is not classified for primary contact use activities and is not subject to the fecal coliform water quality standard of 35 Ill. Adm. Code 302.209.

This draft permit does not contain requirements for disinfection of the discharge from discharge numbers(s) 001. The North Fork Brouilletts Creek (aka Crabapple Creek) from the Chrisman Sewage Treatment Plant discharge point to the confluence with Crabapple Creek has been determined to be unsuited to support primary contact activities (swimming) due to physical, hydrologic or geographic configuration. Anyone knowing of primary contact activities occurring within this water segment is invited to submit comments to the IEPA. Comments should give the nature of the activities (i.e swimming, fishing, canoeing, etc.), the location and months of the year when these activities have been observed. The IEPA is also interested in obtaining information on the proximity of residential dwellings and the accessibility of the public to this water segment. Anyone with such information is asked to submit comments to the IEPA on this draft permit action. Instructions for submitting comments are contained earlier in this document.

The IEPA will accept comments on the following draft modifications to the Permit: Proposed treatment for excess flow.

Application is made for the existing discharge(s) which is located in Edgar County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

| <u>Discharge Number</u> | <u>Receiving Stream</u>         | <u>Latitude</u>   | <u>Longitude</u> | <u>Stream Classification</u> | <u>Integrity Rating</u> |
|-------------------------|---------------------------------|-------------------|------------------|------------------------------|-------------------------|
| 001                     | North Fork of Brouilletts Creek | 39° 48' 34" North | 87° 39' 49" West | General Use                  | D                       |

To assist you further in identifying the location of the discharge(s) please see the attached map.

The North Fork Brouilletts Creek (aka Crabapple Creek, waterbody segment code BNB) is not listed as impaired on the Illinois Integrated Water Quality Report and Section 303(d) List.

The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): B01 STP Outfall

Load limits computed based on a design average flow (DAF) of 0.12 MGD (design maximum flow (DMF) of 0.24 MGD).

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter                      | LOAD LIMITS lbs/day<br>DAF (DMF)*              |                   |                  | CONCENTRATION<br>LIMITS mg/L     |                                 |                  | Regulation                       |
|--------------------------------|--|-------------------|------------------|----------------------------------|---------------------------------|------------------|----------------------------------|
|                                | Monthly<br>Average                             | Weekly<br>Average | Daily<br>Maximum | Monthly<br>Average               | Weekly<br>Average               | Daily<br>Maximum |                                  |
| CBOD <sub>5</sub>              | 10 (20)  |                   | 20 (40)          | 10                               |                                 | 20               | 35 IAC 304.120<br>40 CFR 133.102 |
| Suspended Solids               | 12 (24)  |                   | 24 (48)          | 12                               |                                 | 24               | 35 IAC 304.120<br>40 CFR 133.102 |
| pH                             | Shall be in the range of 6 to 9 Standard Units |                   |                  |                                  |                                 |                  | 35 IAC 304.125                   |
| Fecal Coliform                 | Monitor only<br>(May through October)          |                   |                  |                                  |                                 |                  | 35 IAC 309.146                   |
| Chlorine Residual              |  |                   |                  |                                  |                                 | 0.05             | 35 IAC 302.208                   |
| Ammonia Nitrogen:<br>March     | 1.5 (3.0)                                      | 3.8 (7.6)         | 4.2 (8.4)        | 1.5                              | 3.8                             | 4.2              | 35 IAC 355 and<br>35 IAC 302     |
| April-May/Sept.-Oct.           | 1.5 (3.0)                                      |                   | 3.0 (6.0)        | 1.5                              |                                 | 3.0              |                                  |
| June-August                    | 0.80 (1.6)                                     | 2.0 (4.0)         | 3.0 (6.0)        | 0.8                              | 2.0                             | 3.0              |                                  |
| Nov.-Feb.                      | 1.5 (3.0)                                      |                   | 4.0 (8.0)        | 1.5                              |                                 | 4.0              |                                  |
|                                |  |                   |                  | Monthly<br>Avg. not<br>less than | Weekly<br>Avg. not<br>less than | Daily<br>Minimum |                                  |
| Dissolved Oxygen<br>March-July |  |                   |                  | N/A                              | 6.0                             | 5.0              | 35 IAC 302.206                   |
| August-February                |  |                   |                  | 5.5                              | 4.0                             | 3.5              |                                  |

\*Load Limits are calculated by using the formula:  $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$ .

Effluent, Limitations, Monitoring, and Reporting

This Permit contains an approval to treat and discharge excess flow as follows:

Discharge Number(s) and Name(s): Excess Flow Outfall A01

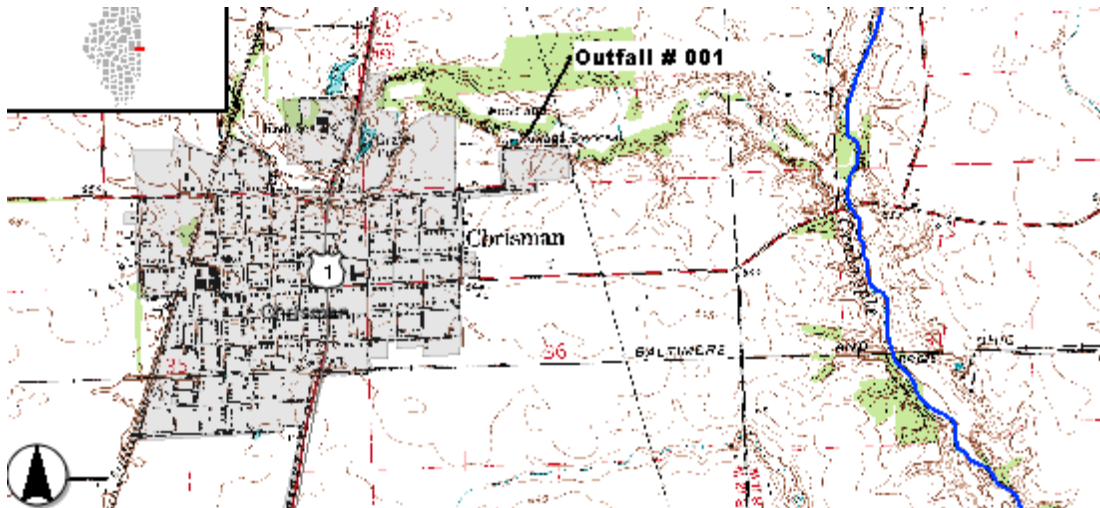
| <u>Parameter</u>        | <u>CONCENTRATION LIMITS (mg/L)</u>            |                       | <u>Regulation</u> |
|-------------------------|---|-----------------------|-------------------|
|                         | <u>Monthly Average</u>                        | <u>Weekly Average</u> |                   |
| Total Flow (MG)         |   |                       |                   |
| Fecal Coliform          | Daily Maximum Shall not Exceed 400 per 100 mL |                       | 35 IAC 304.121    |
| BOD <sub>5</sub>        | Monitor Only                                  |                       | 35 IAC 309.146    |
| Suspended Solids        | Monitor Only                                  |                       | 35 IAC 309.146    |
| Ammonia Nitrogen (as N) | Monitor Only                                  |                       | 35 IAC 309.146    |
| Dissolved Oxygen        | Monitor Only                                  |                       | 35 IAC 309.146    |

Discharge Number(s) and Name(s): 001 Combined Discharge from Outfalls A01 and B01

| <u>Parameter</u>        | <u>CONCENTRATION LIMITS (mg/L)</u>             |                       | <u>Daily Maximum</u> | <u>Sample Frequency</u>          |
|-------------------------|--|-----------------------|----------------------|----------------------------------|
|                         | <u>Monthly Average</u>                         | <u>Weekly Average</u> |                      |                                  |
| Total Flow (MG)         |  |                       |                      |                                  |
| BOD <sub>5</sub>        | 30   | 45                    |                      | 35 IAC 304.120<br>40 CFR 133.102 |
| Suspended Solids        | 30   | 45                    |                      | 35 IAC 304.120<br>40 CFR 133.102 |
| pH                      | Shall be in the range of 6 to 9 Standard Units |                       |                      | 35 IAC 304.125                   |
| Chlorine Residual       |  |                       | 0.75                 | 35 IAC 302.208                   |
| Ammonia Nitrogen (as N) | Monitor Only                                   |                       |                      | 35 IAC 309.146                   |
| Dissolved Oxygen        | Monitor Only                                   |                       |                      | 35 IAC 309.146                   |

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Operation of the facility by or under the supervision of a certified operator.
3. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit.
4. More frequent monitoring requirement without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
5. Prohibition against causing or contributing to violations of water quality standards.
6. Recording the monitoring results on Discharge Monitoring Report Forms using one such form for each outfall each month and submitting the forms to IEPA each month.
7. The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein reference.
8. Effluent sampling point location.
9. Controlling the sources of infiltration and inflow into the sewer system.
10. A requirement to monitor and a limit of 0.05 mg/L for residual chlorine when it is used.
11. Submission of annual fiscal data.
12. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
13. At minimum 85% removal of CBOD<sub>5</sub> and suspended solids
14. Submission of Capacity, Management, Operations, and Maintenance (CMOM) plan.
15. Reasonable potential analysis and mixing study plan.



**City of Chrisman STP  
NPDES No. IL0028126  
Edgar County**

Antidegradation Assessment for City of Chrisman Sewage Treatment Plant  
NPDES Permit No. IL0028136 Edgar County

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As a result of the WWTP's inadequate capacity to handle wet weather influent flows, the City of Chrisman has received a violation notice and has entered into a consent order to design and construct facilities to handle the excess flow events. To resolve this issue the City of Chrisman has proposed to build treatment for the excess flow. In addition, the permitted flow will be reduced for the DAF and DMF of the facility to recognize that the plant cannot handle the larger flows and still meet the permit limits. The subject facility is proposing to reduce their design average flow (DAF) from 0.17 MGD to 0.12 MGD, reduce the design maximum flow from 0.62 MGD to 0.24 MGD, and build an excess flow treatment capable of handling flow from 0.24 MGD to 1.28 MGD. Since the DAF of the facility is decreasing and excess flow will receive proper treatment, there is no increase in loading. Therefore, further antidegradation assessment is not required.

The information in this antidegradation assessment came from the Fall 2014 preliminary engineering.

**Identification and Characterization of the Affected Water Body.**

The subject facility discharges to the North Fork of Brouilletts Creek (aka Crabapple Creek) at a point where 0 cfs of flow exists upstream of the outfall during critical 7Q10 low-flow conditions. The North Fork of Brouilletts Creek is classified as a General Use Water. According to the 2008 IDNR document "Integrating Multiple Taxa in a Biological Stream Rating System", the North Fork of Brouilletts Creek is not a biologically significant stream at this location, however, it is rated a "A" stream using IDNR's integrity rating system at this location. The North Fork of Brouilletts Creek, Waterbody Segment, BNB, is not listed on the draft 2014 Illinois Integrated Water Quality Report and Section 303(d) List. Aquatic life and aesthetic quality uses are fully supported. This segment of the North Fork of Brouilletts Creek is not subject to enhanced dissolved oxygen standards.

**Identification of Proposed Pollutant Load Increases or Potential Impacts on Uses.**

The treated domestic waste that characterizes this proposed effluent would be similar to other treated effluents of purely domestic origin. Ammonia limits in the permit will be set at water quality standards. Biochemical oxygen demand (BOD) permit limits will be set at the most stringent effluent standards applicable in 35 IAC 304.120. Due to the reduction in the DAF and DMF of the facility and treatment of excess flow, the stream will not experience an increase in loading due to the new effluent discharge.

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Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: June 30, 2017

Issue Date: June 28, 2012

Effective Date: July 1, 2012

Modification Date:

Name and Address of Permittee:

City of Chrisman  
222 West Madison Street  
Chrisman, Illinois 61924

Facility Name and Address:

City of Chrisman STP  
700 East Wadington  
Chrisman, Illinois  
(Edgar County)

Receiving Waters: North Fork of Brouilletts Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, and the Clean Water Act (CWA), the above-named Permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the Permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

SAK:kar05132015

NPDES Permit No. IL0028126

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): B01 STP Outfall

Load limits computed based on a design average flow (DAF) of 0.12 MGD (design maximum flow (DMF) of 0.24 MGD).

Excess flow facilities (if applicable) shall not be utilized until the main treatment facility is receiving its maximum practical flow.

From the modification date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter                            | LOAD LIMITS lbs/day<br>DAF (DMF)*              |                   |                  | CONCENTRATION<br>LIMITS mg/L           |                                       |                  | Sample<br>Frequency | Sample<br>Type |
|--------------------------------------|--|-------------------|------------------|--|---------------------------------------|------------------|---------------------|----------------|
|                                      | Monthly<br>Average                             | Weekly<br>Average | Daily<br>Maximum | Monthly<br>Average                     | Weekly<br>Average                     | Daily<br>Maximum |                     |                |
| Flow (MGD)                           |  |                   |                  |  |                                       |                  | Continuous          |                |
| CBOD <sub>5</sub> ** , ***           | 10 (20)  |                   | 20 (40)          | 10                                     |                                       | 20               | 1 Day/Week          | Composite      |
| Suspended Solids***                  | 12 (24)  |                   | 24 (48)          | 12                                     |                                       | 24               | 1 Day/Week          | Composite      |
| pH                                   | Shall be in the range of 6 to 9 Standard Units |                   |                  |  |                                       |                  | 1 Day/Week          | Grab           |
| Fecal Coliform****                   | Monitor Only (May through October)             |                   |                  |  |                                       |                  | 1 Day/Week          | Grab           |
| Chlorine Residual                    |  |                   |                  |  |                                       | 0.05             | *****               | Grab           |
| Ammonia Nitrogen:<br>As (N)<br>March | 1.5 (3.0)                                      | 3.8 (7.6)         | 4.2 (8.4)        | 1.5                                    | 3.8                                   | 4.2              | 1 Day/Week          | Composite      |
| April-May/Sept.-Oct.                 | 1.5 (3.0)                                      |                   | 3.0 (6.0)        | 1.5                                    |                                       | 3.0              |                     |                |
| June-August                          | 0.80 (1.6)                                     | 2.0 (4.0)         | 3.0 (6.0)        | 0.8                                    | 2.0                                   | 3.0              | 1 Day/Week          | Composite      |
| Nov.-Feb.                            | 1.5 (3.0)                                      |                   | 4.0 (8.0)        | 1.5                                    |                                       | 4.0              | 1 Day/Week          | Composite      |
|                                      |  |                   |                  | Monthly<br>Average<br>not less<br>than | Weekly<br>Average<br>not less<br>than | Daily<br>Minimum |                     |                |
| Dissolved Oxygen<br>March-July       |  |                   |                  |  | 6.0                                   | 5.0              | 1 Day/Week          | Grab           |
| August-February                      |  |                   |                  | 5.5                                    | 4.0                                   | 3.5              | 1 Day/Week          | Grab           |

\*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

\*\*Carbonaceous BOD<sub>5</sub> (CBOD<sub>5</sub>) testing shall be in accordance with 40 CFR 136.

\*\*\*The 30 day average percent removal shall not be less than 85%. See Special Condition 13

\*\*\*\*Fecal Coliform shall be monitored May thru October with sample results reported as a daily maximum value on the DMR.

\*\*\*\*\*See Special Condition 10.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

pH shall be reported on the DMR as minimum and maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.



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Effluent Limitations, Monitoring, and Reporting

Discharge Number(s) and Name(s): Excess Flow Outfall A01 (Flow in excess of 0.24 MGD)

These flow facilities shall not be utilized until the main treatment facility is receiving its design maximum flow (DMF)\* (flows in excess of 167 gpm and up to 889 gpm.)

From the modification date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| <u>Parameter</u>        | <u>CONCENTRATION LIMITS (mg/L)</u>            |                       | <u>Sample Frequency</u> | <u>Sample Type</u> |
|-------------------------|---|-----------------------|-------------------------|--------------------|
|                         | <u>Monthly Average</u>                        | <u>Weekly Average</u> |                         |                    |
| Total Flow (MG)         |   |                       | Daily When Discharging  | Continuous         |
| Fecal Coliform          | Daily Maximum Shall not Exceed 400 per 100 mL |                       | Daily When Discharging  | Grab               |
| BOD <sub>5</sub> **     | Monitor Only                                  |                       | Daily When Discharging  | Grab               |
| Suspended Solids**      | Monitor Only                                  |                       | Daily When Discharging  | Grab               |
| Ammonia Nitrogen (as N) | Monitor Only                                  |                       | Daily When Discharging  | Grab               |
| Dissolved Oxygen        | Monitor Only                                  |                       | Daily When Discharging  | Grab               |

\*An explanation shall be provided in the comment section of the DMR should these facilities be used when the main treatment facility is not receiving Design Maximum Flow (DMF). The explanation shall identify the reasons the main facility is at a diminished treatment capacity. Additionally, the Permittee shall comply with the provisions of Special Condition 9.

\*\*The 30-day average percent removal shall not be less than 85 percent. See Special Condition 13.

Total flow in million gallons shall be reported on the Discharge Monitoring Report (DMR) in the quantity maximum column.

Report the number of days of discharge in the comments section of the DMR.

Fecal Coliform shall be reported on the DMR as daily maximum.

BOD<sub>5</sub> and Suspended Solids shall be reported on the DMR as a monthly and weekly average concentration.

Ammonia Nitrogen shall be reported on the DMR as a daily maximum value.

The duration of each A01 discharge and rainfall event including rainfall intensity (i.e., start and ending time) shall be provided in the comment section of the DMR.

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Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 Combined Discharge from Outfalls A01 and B01

From the modification date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

| Parameter                 | CONCENTRATION LIMITS (mg/L)                    |                | Daily Maximum | Sample Frequency              | Sample Type |
|---------------------------|--|----------------|---------------|-------------------------------|-------------|
|                           | Monthly Average                                | Weekly Average |               |                               |             |
| Total Flow (MG)           |  |                |               | Daily When A01 is Discharging | Continuous  |
| BOD <sub>5</sub> **       | 30   | 45             |               | Daily When A01 is Discharging | Grab        |
| Suspended Solids**        | 30   | 45             |               | Daily When A01 is Discharging | Grab        |
| pH                        | Shall be in the range of 6 to 9 Standard Units |                |               | Daily When A01 is Discharging | Grab        |
| Chlorine Residual         |  |                | 0.75          | Daily When A01 is Discharging | Grab        |
| Ammonia Nitrogen (as N)** | Monitor Only                                   |                |               | Daily When A01 is Discharging | Grab        |
| Total Phosphorus (as P)   | Monitor Only                                   |                |               | Daily When A01 is Discharging | Grab        |
| Total Nitrogen            | Monitor Only                                   |                |               | Daily When A01 is Discharging | Grab        |
| Dissolved Oxygen          | Monitor Only                                   |                |               | Daily When A01 is Discharging | Grab        |

\*An explanation shall be provided in the comment section of the DMR should these facilities be used when the main treatment facility is not receiving Design Maximum Flow (DMF). The explanation shall identify the reasons the main facility is at a diminished treatment capacity. Additionally, the Permittee shall comply with the provisions of Special Condition 8.

\*\*The 30-day average percent removal shall not be less than 85 percent. See Special Condition 13.

Total flow in million gallons shall be reported on the Discharge Monitoring Report (DMR) in the quantity maximum column.

Report the number of days of discharge in the comments section of the DMR.

BOD<sub>5</sub> and Suspended Solids shall be reported on the DMR as a monthly average concentration.

pH shall be reported on the DMR as a minimum and a maximum.

Chlorine Residual shall be reported on the DMR as daily maximum.

Ammonia Nitrogen shall be reported on the DMR as a daily maximum value.

Dissolved Oxygen shall be reported on the DMR as a daily minimum value.

A Monthly Average value for Ammonia shall be computed for each month that A01 discharges beginning one month after the effective date of the permit. A Monthly Average concentration shall be determined by combining data collected from 001 and B01 (only B01 data from days when A01 is not discharging) for the reporting period. These monitoring results shall be submitted to the Agency on the DMR.

A Monthly and Weekly Average value for DO shall be computed for each month that A01 discharges beginning one month after the effective date of the permit. The Monthly and Weekly Averages concentrations for 001 shall be determined by combining data collected from 001 and B01 (only B01 data from days when A01 is not discharging) for the reporting period. These monitoring results shall be submitted to the Agency on the DMR.

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Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

| <u>Parameter</u> | <u>Sample Frequency</u> | <u>Sample Type</u> |
|------------------|-------------------------|--------------------|
| Flow (MGD)       | Continuous              |                    |
| BOD <sub>5</sub> | 1 Day/Week              | Composite          |
| Suspended Solids | 1 Day/Week              | Composite          |

Influent samples shall be taken at a point representative of the influent.

Flow (MGD) shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

BOD<sub>5</sub> and Suspended Solids shall be reported on the DMR as a monthly average concentration.

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Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws and regulations. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2. The use or operation of this facility shall be by or under the supervision of a Certified Class 3 operator.

SPECIAL CONDITION 3. The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 4. The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR Section 122.63 and Without Public Notice.

SPECIAL CONDITION 5. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 6. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using NetDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Attention: Compliance Assurance Section, Mail Code # 19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

SPECIAL CONDITION 7. The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein reference.

SPECIAL CONDITION 8. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 9. This Permit may be modified to include requirements for the Permittee on a continuing basis to evaluate and detail its efforts to effectively control sources of infiltration and inflow into the sewer system and to submit reports to the IEPA if necessary.

SPECIAL CONDITION 10. For Discharge No. B01, any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/L (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the DMR's on a monthly basis.

SPECIAL CONDITION 11. During January of each year the Permittee shall submit annual fiscal data regarding sewerage system operations to the Illinois Environmental Protection Agency/Division of Water Pollution Control/Compliance Assurance Section. The Permittee may use any fiscal year period provided the period ends within twelve (12) months of the submission date.

Submission shall be on forms provided by IEPA titled "Fiscal Report Form For NPDES Permittees".

SPECIAL CONDITION 12. For the duration of this Permit, the Permittee shall determine the quantity of sludge produced by the treatment facility in dry tons or gallons with average percent total solids analysis. The Permittee shall maintain adequate records of the quantities of sludge produced and have said records available for U.S. EPA and IEPA inspection. The Permittee shall submit to the IEPA, at a minimum, a semi-annual summary report of the quantities of sludge generated and disposed of, in units of dry tons or gallons (average total percent solids) by different disposal methods including but not limited to application on farmland, application on reclamation land, landfilling, public distribution, dedicated land disposal, sod farms, storage lagoons or any other specified disposal method. Said reports shall be submitted to the IEPA by January 31 and July 31 of each year reporting the preceding January thru June and July thru December interval of sludge disposal operations.

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Special Conditions

Duty to Mitigate. The Permittee shall take all reasonable steps to minimize any sludge use or disposal in violation of this Permit.

Sludge monitoring must be conducted according to test procedures approved under 40 CFR 136 unless otherwise specified in 40 CFR 503, unless other test procedures have been specified in this Permit.

Planned Changes. The Permittee shall give notice to the IEPA on the semi-annual report of any changes in sludge use and disposal.

The Permittee shall retain records of all sludge monitoring, and reports required by the Sludge Permit as referenced in Standard Condition 25 for a period of at least five (5) years from the date of this Permit.

If the Permittee monitors any pollutant more frequently than required by this permit or the Sludge Permit, the results of this monitoring shall be included in the reporting of data submitted to the IEPA.

The Permittee shall comply with existing federal regulations governing sewage sludge use or disposal and shall comply with all existing applicable regulations in any jurisdiction in which the sewage sludge is actually used or disposed.

The Permittee shall comply with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish the standards for sewage sludge use or disposal even if the permit has not been modified to incorporate the requirement.

The Permittee shall ensure that the applicable requirements in 40 CFR Part 503 are met when the sewage sludge is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator.

Monitoring reports for sludge shall be reported on the form titled "Sludge Management Reports" to the following address:

Illinois Environmental Protection Agency  
Bureau of Water  
Compliance Assurance Section  
Mail Code #19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

SPECIAL CONDITION 13: BOD<sub>5</sub> and Suspended Solids (85% removal required) For Discharge No. 001 and B01: In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent except as provided in Sections 133.103 and 133.105. The percent removal need not be reported to the IEPA on DMRs but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD<sub>5</sub> concentration to determine the effluent BOD<sub>5</sub> concentration.

Percent removal is a percentage expression of the removal efficiency across a treatment plant for a given pollutant parameter, as determined from the 30-day average values of the raw wastewater influent concentrations to the facility and the 30-day average values of the effluent pollutant concentrations for a given time period.

SPECIAL CONDITION 14: The Permittee shall work towards the goals of achieving no discharges from sanitary sewer overflows or basement backups and ensuring that overflows or backups, when they do occur do not cause or contribute to violations of applicable standards or cause impairment in any adjacent receiving water. Overflows from sanitary sewers are expressly prohibited by this permit and by Ill. Adm. Code 306.304. In order to accomplish these goals of complying with this prohibition and mitigating the adverse impacts of any such overflows if they do occur the Permittee shall (A) identify and report to IEPA all SSOs that do occur, and (B) develop, implement and submit to the IEPA a Capacity, Management, Operations, and Maintenance (CMOM) plan which includes an Asset Management Strategy, within twelve (12) months of the effective date of this Permit or review and revise any existing plan accordingly. The Permittee shall modify the Plan to incorporate any comments that it receives from IEPA and shall implement the modified plan as soon as possible. The Permittee should work as appropriate, in consultation with affected authorities at the local, county, and/or state level to develop the plan components involving third party notification of overflow events. The Permittee may be required to construct additional sewage transport and/or treatment facilities in future permits or other enforceable documents should the implemented CMOM plan indicate that the Permittee's facilities are not capable of conveying and treating the flow for which they are designed.

The CMOM plan shall include the following elements:

a. Measures and Activities:

1. A complete map and system inventory for the collection system owned and operated by the Permittee;

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2. Organizational structure; budgeting; training of personnel; legal authorities; schedules for maintenance, sewer system cleaning, and preventative rehabilitation; checklists, and mechanisms to ensure that preventative maintenance is performed on equipment owned and operated by the Permittee;
  3. Documentation of unplanned maintenance;
  4. An assessment of the capacity of the collection and treatment system owned and operated by the Permittee at critical junctions and immediately upstream of locations where overflows and backups occur or are likely to occur; use flow monitoring as necessary;
  5. Identification and prioritization of structural deficiencies in the system owned and operated by the Permittee; and
  6. Operational control, including documented system control procedures, scheduled inspections and testing.
7. The permittee shall develop and implement an Asset Management Strategy to ensure the long-term sustainability of the collection system. The Asset Management Strategy shall be used to assist the Permittee in making decisions on when it is most appropriate to repair, replace, or rehabilitate particular assets and develop long-term funding strategies.
  8. Asset Management Strategies shall include ( as further described in the Asset Management Guidance Document), but is not limited to the following elements:
    - A. Asset Inventory and State of the Assets.
    - B. Level of Services.
    - C. Critical Asset Identification.
    - D. Life Cycle Costing.
    - E. Long-term Funding Strategies.
- b. Design and Performance Provisions:
1. Monitor the effectiveness of CMOM;
  2. Upgrade the elements of the CMOM plan as necessary; and
  3. Maintain a summary of CMOM activities.
- c. Overflow Response Plan:
1. Know where overflows and backups within the facilities owned and operated by the Permittee occur;
  2. Respond to each overflow or backup to determine additional actions such as clean up; and
  3. Locations where basement back-ups and/or sanitary sewer overflows occur shall be evaluated as soon as practicable for excessive inflow/infiltration, obstructions or other causes of overflows or back-ups as set forth in the System Evaluation Plan.
- d. System Evaluation Plan:
1. Summary of existing SSO and Excessive I/I areas in the system and sources of contribution;
  2. Evaluate plans to reduce I/I and eliminate SSOs;
  3. Special provisions for Pump Stations and force mains and other unique system components; and
  4. Construction plans and schedules for correction.
- e. Reporting and Monitoring Requirements:
1. Program for SSO detection and reporting; and
  2. Program for tracking and reporting basement back-ups, including general public complaints.
- f. Third Party Notice Plan:
1. Describes how, under various overflow scenarios, the public, as well as other entities, would be notified of overflows within the Permittee's system that may endanger public health, safety or welfare;
  2. Identifies overflows within the Permittee's system that would be reported, giving consideration to various types of events including events with potential widespread impacts;
  3. Identifies who shall receive the notification;
  4. Identifies the specific information that would be reported including actions that will be taken to respond to the overflow;
  5. Includes a description of the lines of communication; and
  6. Includes the identities and contact information of responsible POTW officials and local, county, and/or state level officials.

For additional information concerning USEPA CMOM guidance and Asset Management please refer to this following web site addresses.

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[http://www.epa.gov/npdes/pubs/cmom\\_5.pdf](http://www.epa.gov/npdes/pubs/cmom_5.pdf), <http://www.epa.gov/npdes/pubs/assetmanagement.pdf>

**SPECIAL CONDITION 15.** The Agency shall consider all monitoring data submitted by the discharger in accordance with the monitoring requirements of this permit for all parameters, including but not limited to data pertaining to ammonia and dissolved oxygen for discharges from Discharge Number 001, to determine whether the discharges are at levels which cause, have the reasonable potential to cause, or contribute to exceedances of water quality standards. If the data indicate that the discharges are at levels which cause, have the reasonable potential to cause, or contribute to exceedances of water quality standards, then the Agency shall reopen the permit to include water quality based effluent limitations within 30 months of the effective date of this permit. If the discharger wants the Agency to consider mixing when determining the need for and establishment of water quality based effluent limitations, the discharger shall submit a study plan on mixing to the Agency for the Agency's review and comment within 2 months of the effective date of this permit.