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 discharger. 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 Todd Lamm 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 Cairo.

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, Ohio River is 54120 cfs.

The design average flow (DAF) for the facility is 1.5 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 3.0 MGD. Treatment consists of screening, primary settling, and disinfection.
This reissued 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.

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

<table>
<thead>
<tr>
<th>Discharge Number</th>
<th>Receiving Stream</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Stream Classification</th>
<th>Integrity Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Ohio River</td>
<td>37° 49’ 49&quot; North</td>
<td>89° 09’ 32&quot; West</td>
<td>General Use</td>
<td>Not Rated</td>
</tr>
<tr>
<td>002</td>
<td>Ohio River</td>
<td>37° 01’ 06&quot; North</td>
<td>89° 10’ 41&quot; West</td>
<td>General Use</td>
<td>Not Rated</td>
</tr>
<tr>
<td>003</td>
<td>Ohio River</td>
<td>37° 00’ 45&quot; North</td>
<td>89° 10’ 28&quot; West</td>
<td>General Use</td>
<td>Not Rated</td>
</tr>
<tr>
<td>004</td>
<td>Ohio River</td>
<td>37° 00’ 10&quot; North</td>
<td>89° 09’ 28&quot; West</td>
<td>General Use</td>
<td>Not Rated</td>
</tr>
</tbody>
</table>

This permit authorizes discharge from 3 CSOs in accordance with 35 Ill. Adm. Code 306.305:

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

The stream segment(s), A-920-981, receiving the discharge from outfall(s) 001 is (are) on the 303(d) list of impaired waters.

The following parameters have been identified as the pollutants causing impairment:

<table>
<thead>
<tr>
<th>Uses Impaired</th>
<th>Potential Causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft 2014 list-</td>
<td></td>
</tr>
<tr>
<td>Fish Consumption</td>
<td>Mercury, PCBs and Dioxin</td>
</tr>
<tr>
<td>Primary Contact</td>
<td>Fecal Coliform</td>
</tr>
</tbody>
</table>

The city of Cairo submitted a Long Term control Plan (LTCP) EZ form on November 28, 2012. The plan considered sewer separation and storage facilities to meet CSO Control Policy requirements. Sewer separation was not deemed feasible because the cost would amount to 2.3 times the assessed value of the City of Cairo. Building storage facilities was also not deemed feasible because the cost would amount to 1.34 times the assessed value of the City of Cairo.

The city has investigated causes and duration of combined sewer overflow discharge and has determined that a reduction of overflow events and volumes of overflows can be achieved by building an effluent pump station and renovating the 10th Street Pump Station. This would allow the continued treatment and discharge of 3.0 MGD of wastewater during river stages above 40 feet on the Ohio River Gauge at Cairo. However, the cost of these improvements is over five hundred thousand dollars and is still not economically achievable. The MHI for Cairo was $22,674.00 when the LTCP was submitted and is currently $16,490.00. This permit will require the Permittee to submit yearly reports identifying the efforts made in securing grant money for the effluent and 10th Street pump station.
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): STP Outfall 001

Load limits computed based on a design average flow (DAF) of 1.5 MGD (design maximum flow (DMF) of 3.0 MGD).

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LOAD LIMITS lbs/day DAF (DMF)*</th>
<th>CONCENTRATION LIMITS mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Monthly Average</td>
<td>Weekly Average</td>
</tr>
<tr>
<td>CBOD₅</td>
<td>250 (500)</td>
<td>500 (1001)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>313 (626)</td>
<td>563 (1126)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fecal Coliform</td>
<td>Daily Maximum shall not exceed 400 per 100 mL</td>
<td></td>
</tr>
<tr>
<td>Chlorine Residual</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonia Nitrogen:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>March-May/Sept.-Oct.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June-August</td>
<td>36 (73)</td>
<td></td>
</tr>
<tr>
<td>Nov.-Feb.</td>
<td>75 (150)</td>
<td></td>
</tr>
<tr>
<td>Phosphorus</td>
<td>Monitor and Report</td>
<td></td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>Monitor and Report</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Monthly Avg. not less than</td>
<td>Weekly Avg. not less than</td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>N/A</td>
<td>6.25</td>
</tr>
<tr>
<td>March-July</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August-February</td>
<td>6.0</td>
<td>4.5</td>
</tr>
</tbody>
</table>

*Load Limits are calculated by using the formula: \( 8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L}) \).
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. Effluent sampling point location.
8. Controlling the sources of infiltration and inflow into the sewer system.
9. Monitoring for arsenic, barium, cadmium, hexavalent chromium, total chromium, copper, weak acid dissociable cyanide, total cyanide, fluoride, dissolved iron, total iron, lead, manganese, mercury, nickel, oil, phenols, selenium, silver and zinc is required to be conducted semi-annually beginning 3 months from the effective date.
10. The Permittee is required to monitor for lead once monthly for six months beginning one month after the effective date of this Permit.
11. Submission of annual fiscal data.
12. The Permittee is required to perform biomonitoring tests in the 18th, 15th, 12th and 9th months prior to the expiration date of the permit, and to submit the results of such tests to the IEPA within one week of receiving the results from the laboratory.
14. Provisions of 40 CFR Section 122.31 (m) & (n).
15. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
17. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or other water quality study.
18. At minimum 85% removal of CBOD₅ and suspended solids.
NPDES Permit No. IL0023825
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
Reissued (NPDES) Permit

Expiration Date: 
Issue Date: 
Effective Date: 

Name and Address of Permittee: 
Facility Name and Address: 
City of Cairo 
1100 Commercial Street
Cairo, Illinois 62914
City of Cairo - STP
1st and Ohio Street
Cairo, Illinois 62914
(Alexander County)

Receiving Waters:  Ohio River

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:TTL:IL0023825-15.TTL
Discharge Number(s) and Name(s): STP Outfall 001

Load limits computed based on a design average flow (DAF) of 1.5 MGD (design maximum flow (DMF) of 3.0 MGD).

From the effective 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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LOAD LIMITS lbs/day DAF (DMF)*</th>
<th>CONCENTRATION LIMITS mg/L</th>
<th>Sample Frequency</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow (MGD)</td>
<td>Monthly Average</td>
<td>Weekly Average</td>
<td>Daily Maximum</td>
<td>Monthly Average</td>
</tr>
<tr>
<td>CBOD₅**,** ***</td>
<td>250 (500)</td>
<td>500 (1001)</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>Suspended Solids***</td>
<td>313 (626)</td>
<td>563 (1126)</td>
<td>25</td>
<td>45</td>
</tr>
<tr>
<td>pH</td>
<td>Shall be in the range of 6 to 9 Standard Units</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fecal Coliform</td>
<td>Daily Maximum shall not exceed 400 per 100 mL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonia Nitrogen: As (N)</td>
<td>Monthly Average</td>
<td>Weekly Average</td>
<td>Daily Minimum</td>
<td></td>
</tr>
<tr>
<td>March-May/Sept.-Oct.</td>
<td>59 (118)</td>
<td></td>
<td>4.7</td>
<td>3 Days/Week</td>
</tr>
<tr>
<td>June-August</td>
<td>36 (73)</td>
<td></td>
<td>2.9</td>
<td>3 Days/Week</td>
</tr>
<tr>
<td>Nov.-Feb.</td>
<td>75 (150)</td>
<td></td>
<td>6</td>
<td>3 Days/Week</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>Monitor and Report</td>
<td>Monthly Average not less than</td>
<td>Weekly Average not less than</td>
<td>Daily Minimum</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>Monitor and Report</td>
<td>Monthly Average not less than</td>
<td>Weekly Average not less than</td>
<td>Daily Minimum</td>
</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>Monthly Average</td>
<td>Weekly Average</td>
<td>Daily Minimum</td>
<td></td>
</tr>
<tr>
<td>March-July</td>
<td>N/A</td>
<td>6.25</td>
<td>4.5</td>
<td>3 Days/Week</td>
</tr>
<tr>
<td>August-February</td>
<td>6.0</td>
<td>4.5</td>
<td>4</td>
<td>3 Days/Week</td>
</tr>
</tbody>
</table>

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.
**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.
***The 30-day average percent removal shall not be less than 85 percent. See Special Condition 18.

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

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

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

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

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

Phosphorus shall be reported on the DMR as a daily maximum value.
Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Sample Frequency</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow (MGD)</td>
<td>Continuous</td>
<td>RIT* or as Hardware Allows</td>
</tr>
<tr>
<td>BOD&lt;sub&gt;5&lt;/sub&gt;</td>
<td>3 Days/Week</td>
<td>Grab</td>
</tr>
<tr>
<td>Suspended Solids</td>
<td>3 Days/Week</td>
<td>Grab</td>
</tr>
</tbody>
</table>

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.

*RIT = Recording, Indicating, Totalizing.
**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](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.** 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 8.** 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 9.** The Permittee shall conduct semi-annual monitoring of the effluent and report concentrations (in mg/l) of the following listed parameters. Monitoring shall begin three (3) months from the effective date of this permit. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on Discharge Monitoring Report Forms to IEPA unless otherwise specified by the IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

<table>
<thead>
<tr>
<th>STORET CODE</th>
<th>STORET CODE</th>
<th>PARAMETER</th>
<th>CODE Description</th>
<th>Minimum reporting limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01002</td>
<td>01002</td>
<td>Arsenic</td>
<td></td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>01007</td>
<td>01007</td>
<td>Barium</td>
<td></td>
<td>0.5 mg/L</td>
</tr>
<tr>
<td>01027</td>
<td>01027</td>
<td>Cadmium</td>
<td></td>
<td>0.001 mg/L</td>
</tr>
<tr>
<td>01032</td>
<td>01032</td>
<td>Chromium (hexavalent) (grab)</td>
<td>0.01 mg/L</td>
<td></td>
</tr>
<tr>
<td>01034</td>
<td>01034</td>
<td>Chromium (total)</td>
<td></td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>01042</td>
<td>01042</td>
<td>Copper</td>
<td></td>
<td>0.005 mg/L</td>
</tr>
<tr>
<td>00718</td>
<td>00718</td>
<td>Cyanide (grab) (available*** or amenable to chlorination)</td>
<td>5.0 ug/L</td>
<td></td>
</tr>
<tr>
<td>00720</td>
<td>00720</td>
<td>Cyanide (total) (grab not to exceed 24 hours)</td>
<td>5.0 ug/L</td>
<td></td>
</tr>
<tr>
<td>00951</td>
<td>00951</td>
<td>Fluoride</td>
<td></td>
<td>0.1 mg/L</td>
</tr>
<tr>
<td>01045</td>
<td>01045</td>
<td>Iron (total)</td>
<td></td>
<td>0.5 mg/L</td>
</tr>
<tr>
<td>01046</td>
<td>01046</td>
<td>Iron (Dissolved)</td>
<td></td>
<td>0.5 mg/L</td>
</tr>
<tr>
<td>01051</td>
<td>01051</td>
<td>Lead</td>
<td></td>
<td>0.05 mg/L</td>
</tr>
<tr>
<td>01055</td>
<td>01055</td>
<td>Manganese</td>
<td></td>
<td>0.5 mg/L</td>
</tr>
<tr>
<td>71900</td>
<td>71900</td>
<td>Mercury (grab)**</td>
<td></td>
<td>1.0 mg/L*</td>
</tr>
<tr>
<td>01067</td>
<td>01067</td>
<td>Nickel</td>
<td></td>
<td>0.005 mg/L</td>
</tr>
<tr>
<td>00556</td>
<td>00556</td>
<td>Oil (hexane soluble or equivalent) (Grab Sample only)</td>
<td>5.0 mg/L</td>
<td></td>
</tr>
<tr>
<td>32730</td>
<td>32730</td>
<td>Phenols (grab)</td>
<td></td>
<td>0.005 mg/L</td>
</tr>
<tr>
<td>01147</td>
<td>01147</td>
<td>Selenium</td>
<td></td>
<td>0.005 mg/L</td>
</tr>
</tbody>
</table>
NPDES Permit No. IL0023825

Special Conditions

01077  Silver (total)  0.003 mg/L
01092  Zinc  0.025 mg/L

Minimum Reporting Limits are defined as – (1) The minimum value below which data are documented as non-detects. (2) Three to ten times the method detection limit. (3) The minimum value of the calibration range.

All sample containers, preservatives, holding times, analyses, method detection limit determinations and quality assurance/quality control requirements shall be in accordance with 40 CFR 136.

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

*1.0 ng/L = 1 part per trillion.
**Utilize USEPA Method 1631E and the digestion procedure described in Section 11.1.1.2 of 1631E.
***US EPA Method OIA-1677.

The Permittee shall provide a report briefly describing the permittee’s pretreatment activities and an updated listing of the Permittee’s significant industrial users. The list should specify which categorical pretreatment standards, if any, are applicable to each Industrial User. Permittees who operate multiple plants may provide a single report. Such report shall be submitted within six (6) months of the effective date of this Permit to the following addresses:

U.S. Environmental Protection Agency
Region 5
77 West Jackson Blvd.
Chicago, Illinois 60604
Attention: Water Assurance Branch Enforcement and Compliance

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 10. The Permittee shall monitor the effluent for the following parameters twice a month for a period of five (5) consecutive months, beginning three (3) months from the effective date of this Permit. This Permit may be modified with public notice to establish effluent limitations if appropriate, based on information obtained through sampling. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on the DMR’s to IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

<table>
<thead>
<tr>
<th>STORET CODE</th>
<th>Minimum reporting limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>01051</td>
<td>Lead</td>
</tr>
</tbody>
</table>

Minimum reporting limits are defined as: (1) the minimum value below which data are documented as non-detects, (2) three to ten times the method detection limit, or (3) the minimum value of the calibration range.

All sample containers, preservatives, holding times, analyses, method detection limit determinations and quality assurance/quality control requirements shall be in accordance with 40 CFR 136.

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

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. The Permittee shall prepare a preliminary plan for biomonitoring and submit the plan to IEPA for review and approval within ninety (90) days of the effective date of this Permit. The Permittee shall begin biomonitoring of the effluent discharge within ninety (90) days after approval of the biomonitoring plan or other such date as contained in the IEPA’s notification letter.

Biomonitoring

Acute Toxicity - Standard definitive acute toxicity tests shall be run on at least two (2) trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Methods for Measuring the Acute
Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA-821-R-02-012. Results shall be reported in accordance with Section 12. Unless substitute tests are pre-approved; the following tests are required:

- Fish - 96 hour static or static renewal LC₅₀ Bioassay using 1- to 14-day old fathead minnows (Pimephales promelas).
- Invertebrate 48-hour static LC₅₀ Bioassay using Ceriodaphnia.

Testing Frequency - The above tests shall be conducted on a monthly basis for six (6) months within ninety (90) days following approval of the biomonitoring plan or other such date as contained in the IEPA’s notification (approval) letter. Tests shall be performed using 24-hour composite effluent samples unless otherwise authorized by the IEPA. Results shall be submitted to IEPA within one (1) week of becoming available to the Permittee.

Should the results of one (1) month of sampling indicate toxicity, the Permittee may wish to contact the IEPA to request the discontinuance of further sampling at which time the IEPA may require the Permittee to begin the toxicity reduction evaluation and identification as outlined below.

Toxicity Assessment - Should an acute bioassay result in toxicity to ≥50% of organisms tested in the 100% effluent treatment, or a chronic bioassay result in a No Observable Adverse Effect Level of <100% effluent based on survival or reproduction, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 13. The Permittee shall work towards the goals of achieving no discharges from sanitary sewer overflows or basement back-ups and ensuring that overflows or back-ups, 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 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 were designed.

The CMOM plan shall include the following elements:

Measures and Activities:

1. A complete map and system inventory for the collection system owned and operated by the Permittee;
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;
6. 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. Asset Management 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; and
8. Asset Management shall include but is not limited to the following elements:
   a. Asset Inventory and State of the Asset;
   b. Level of Service;
   c. Critical Asset Identification;
   d. Life Cycle Cost; and
**Special Conditions**

e. Long-Term Funding Strategy.

A. 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.

B. Overflow Response Plan:

1. Know where overflows and back-ups within the facilities owned and operated by the Permittee occur;
2. Respond to each overflow or back-up 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.

C. 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.

D. 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.

E. 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 the following web site addresses.
http://www.epa.gov/npdes/pubs/cmom_guide_for_collection_systems.pdf and
http://water.epa.gov/type/watersheds/wastewater/upload/guide_smallsystems_assetmanagement_bestpratices.pdf

**SPECIAL CONDITION 14.** The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein by reference.

**SPECIAL CONDITION 15.** 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 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.

**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 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 16.

AUTHORIZATION OF COMBINED SEWER AND TREATMENT PLANT DISCHARGES

The IEPA has determined that at least a portion of the collection system consists of combined sewers. References to the collection system and the sewer system refer only to those parts of the system which are owned and operated by the Permittee unless otherwise indicated. The Permittee is authorized to discharge from the overflow(s)/bypass(es) listed below provided the diversion structure is located on a combined sewer and the following terms and conditions are met:

<table>
<thead>
<tr>
<th>Discharge Number</th>
<th>Location</th>
<th>Receiving Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>002</td>
<td>38th Street Pump Station</td>
<td>Ohio River</td>
</tr>
<tr>
<td>003</td>
<td>28th Street Pump Station</td>
<td>Ohio River</td>
</tr>
<tr>
<td>004</td>
<td>10th Street Pump Station</td>
<td>Ohio River</td>
</tr>
</tbody>
</table>

A. CSO Monitoring, Reporting and Notification Requirements

1. The Permittee shall monitor the frequency of discharge (number of discharges per month) and estimate the duration (in hours) of each discharge from each outfall listed in this Special Condition. Estimates of storm duration and total rainfall shall be provided for each storm event.

<table>
<thead>
<tr>
<th>Start Date</th>
<th>Rainfall Duration (hrs.)</th>
<th>Rainfall Amount (in.)</th>
<th>CSO Outfall #</th>
<th>Outfall Description</th>
<th>Estimated Duration of CSO Discharge (hrs.)</th>
<th>Estimated Volume of CSO Discharge (MG)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For frequency reporting, all discharges from the same storm, or occurring within 24 hours, shall be reported as one. The date that a discharge commences shall be recorded for each outfall. Reports shall be in the form specified by the IEPA and on forms provided by the IEPA (e.g., Form IL 532-2471, or updated form of same). These forms shall be submitted to the IEPA monthly with the DMRs and covering the same reporting period as the DMRs. Parameters (other than flow frequency and volume), if required in this Permit, shall be sampled and reported as indicated in the transmittal letter for such report forms.
2. All Submittals listed in this Special Condition can be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Attention: CSO Coordinator, Compliance Assurance Section

All submittals hand carried shall be delivered to 1021 North Grand Avenue East

B. **CSO Treatment Requirements**

3. All combined sewer overflows and treatment plant bypasses shall be given sufficient treatment to prevent pollution and the violation of applicable water quality standards and to the extent required by the federal Clean Water Act, the 1994 CSO Control Policy including any amendments made by the Wet Weather Water Quality Act of 2000. Sufficient treatment consists of the following:

   a. Treatment as described in PCB 85-225 and dated May 9, 1986 shall be provided; and,
   b. Any additional treatment, necessary to comply with all applicable water quality based requirements of this permit, including but not limited to, the requirement that discharges from CSOs not cause or contribute to violations of applicable water quality standards or cause use impairment in the receiving waters.

4. All CSO discharges authorized by this Permit shall be treated, in whole or in part, to the extent necessary to prevent accumulations of sludge deposits, floating debris and solids in accordance with 35 Ill. Adm. Code 302.203 and to prevent depression of oxygen levels below the applicable water quality standards.

5. Overflows during dry weather are prohibited. Dry weather overflows shall be reported to the IEPA pursuant to Standard Condition 12(e) of this Permit (24 hour notice).

6. The collection system shall be operated to optimize transport of wastewater flows and to minimize CSO discharges and the treatment system shall be operated to maximize treatment of wastewater flows.

C. **CSO Nine Minimum Controls**

7. The Permittee shall comply with the nine minimum controls contained in the National CSO Control Policy published in the Federal Register on April 19, 1994. The nine minimum controls are:

   a. Proper operation and maintenance programs for the sewer system and the CSOs;
   b. Maximum use of the collection system for storage;
   c. Review and modification of pretreatment requirements to assure CSO impacts are minimized;
   d. Maximization of flow to the POTW for treatment;
   e. Prohibition of CSOs during dry weather;
   f. Control of solids and floatable materials in CSOs;
   g. Pollution prevention programs which focus on source control activities;
   h. Public notification to ensure that citizens receive adequate information regarding CSO occurrences and CSO impacts; and,
   i. Monitoring to characterize impacts and efficiency of CSO controls.

A CSO pollution prevention plan (PPP) shall be developed by the Permittee unless one has already been prepared for this collection system. Any previously-prepared PPP shall be reviewed, and revised if necessary, by the Permittee to address the items contained in Chapter 8 of the U.S. EPA guidance document, Combined Sewer Overflows, Guidance For Nine Minimum Controls, and any items contained in previously-sent review documents from the IEPA concerning the PPP. Combined Sewer Overflows, Guidance For Nine Minimum Controls is available on line at http://www.epa.gov/npdes/pubs/owm0030.pdf. The PPP (or revised PPP) shall be presented to the general public at a public information meeting conducted by the Permittee annually during the term of the effective date of this Permit. The Permittee shall submit documentation that the pollution...
Special Conditions

prevention plan complies with the requirements of this Permit and that the public information meeting was held. Such
documentation shall be submitted to the IEPA within twelve (12) months of the effective date of this Permit and shall include a
summary of all significant issues raised by the public, the Permittee’s response to each issue, and two (2) copies of the “CSO
Pollution Prevention Plan Certification” one (1) with original signatures. This certification form is available online at
http://www.epa.state.il.us/water/permits/waste-water/forms/cso-pol-prev.pdf. Following the public meeting, the Permittee shall
implement the pollution prevention plan and shall maintain a current pollution prevention plan, updated to reflect system
modifications, on file at the sewage treatment works or other acceptable location and made available to the public. The pollution
prevention plan revisions shall be submitted to the IEPA one (1) month from the revision date.

D. Sensitive Area Considerations

8. Pursuant to Section II.C.3 of the federal CSO Control Policy of 1994, sensitive areas are any water likely to be impacted by a
CSO discharge which meet one or more of the following criteria: (1) designated as an Outstanding National Resource Water; (2)
found to contain shellfish beds; (3) found to contain threatened or endangered aquatic species or their habitat; (4) used for
primary contact recreation; or, (5) within the protection area for a drinking water intake structure.

Within one (1) month of the effective date of this Permit, the Permittee shall submit two (2) copies to the IEPA and one (1) copy
to ORSANCO of documentation indicating which of the outfalls listed in this Special Condition do not discharge to sensitive
areas. Such documentation shall include information regarding the use of the receiving water for primary contact activities
(swimming, water skiing, etc.). If the Permittee believes that it is not possible for primary contact recreation to occur in the areas
impacted or potentially impacted by the CSOs listed in this Special Condition, then justification as to why primary contact
recreation is not possible shall be submitted. Adequate justification shall include, but is not limited to: (1) inadequate water
depth; (2) presence of physical obstacles sufficient to prevent access to or for primary contact recreation; and, (3) uses of
adjacent land sufficient to discourage primary contact activities. The IEPA will make a determination based on this
documentation and other information available to the IEPA.

Should the IEPA conclude that any of the CSOs listed in this Special Condition discharge to a sensitive area, the IEPA will notify
the Permittee in writing. Within three (3) months of the date of notification, or such other date contained in the notification letter,
the Permittee shall submit two (2) copies of either a schedule to relocate, control, or treat discharges from these outfalls. If none
of these options are possible, the Permittee shall submit adequate justification as to why these options are not possible. Such
justification shall be in accordance with Section II.C.3 of the National CSO Control Policy.

E. CSO Operational and Maintenance Plans

9. The IEPA reviewed and accepted a CSO operational and maintenance plan “CSO O&M plan” on May 3, 2000 prepared for this
sewage system. The Permittee shall fully implement the approved plan and review and revise, if needed, the CSO O&M plan
to reflect system changes.

The CSO O&M plan shall be presented to the general public at a public information meeting conducted by the Permittee within
nine (9) months of the effective date of this Permit or within nine (9) months of the CSO system being modified. The Permittee
shall submit documentation that the CSO O&M plan complies with the requirements of this Permit and that the public information
meeting was held. Such documentation shall be submitted to the IEPA within twelve (12) months of the effective date of this
 Permit and shall include a summary of all significant issues raised by the public, the Permittee’s response to each issue, and two
(2) copies of the “CSO Operational Plan Checklist and Certification”, one (1) with original signatures. Copies of the “CSO
Operational Plan Checklist and Certification” are available online at http://www.epa.state.il.us/water/permits/waste-water/forms/cso-checklist.pdf. Following the public meeting, the Permittee shall
maintain a current CSO O&M plan, updated to reflect system modifications, on file at the sewage treatment works and made
available to the public. The CSO O&M plan revisions shall be submitted to the IEPA one (1) month from the revision date.

The objectives of the CSO O&M plan are to reduce the total loading of pollutants and floatables entering the receiving stream
and to ensure that the Permittee ultimately achieves compliance with water quality standards. These plans, tailored to the local
government’s collection and waste treatment systems, shall include mechanisms and specific procedures where applicable to
ensure:

a. Collection system inspection on a scheduled basis;
b. Sewer, catch basin, and regulator cleaning and maintenance on a scheduled basis;
c. Inspections are made and preventive maintenance is performed on all pump/lift stations;
d. Collection system replacement, where necessary;
e. Detection and elimination of illegal connections;
f. Detection, prevention, and elimination of dry weather overflows;
g. The collection system is operated to maximize storage capacity and the combined sewer portions of the collection system are operated to delay storm entry into the system; and,

h. The treatment and collection systems are operated to maximize treatment.

F. Sewer Use Ordinances

10. The Permittee, within six (6) months of the effective date of this Permit, shall review and where necessary, modify its existing sewer use ordinance to ensure it contains provisions addressing the conditions below. If no ordinance exists, such ordinance shall be developed and implemented within six (6) months from the effective date of this Permit. Upon completion of the review of the sewer use ordinance(s), the Permittee shall submit two (2) copies of a completed “Certification of Sewer Use Ordinance Review”, one (1) with original signatures. Copies of the certification form can be obtained online at http://www.epa.state.il.us/water/permits/waste-water/forms/sewer-use.pdf. The Permittee shall submit copies of the sewer use ordinance(s) to the IEPA one (1) month from the revision date. Sewer use ordinances are to contain specific provisions to:

a. Prohibit introduction of new inflow sources to the sanitary sewer system;

b. Require that new construction tributary to the combined sewer system be designed to minimize and/or delay inflow contribution to the combined sewer system;

c. Require that inflow sources on the combined sewer system be connected to a storm sewer, within a reasonable period of time, if a storm sewer becomes available;

d. Provide that any new building domestic waste connection shall be distinct from the building inflow connection, to facilitate disconnection if a storm sewer becomes available;

e. Assure that CSO impacts from non-domestic sources are minimized by determining which non-domestic discharges, if any, are tributary to CSOs and reviewing, and, if necessary, modifying the sewer use ordinance to control pollutants in these discharges; and,

f. Assure that the owners of all publicly owned systems with combined sewers tributary to the Permittee’s collection system have procedures in place adequate to ensure that the objectives, mechanisms, and specific procedures given in Paragraph 8 of this Special Condition are achieved.

The Permittee shall enforce the applicable sewer use ordinances.

G. Long-Term Control Planning and Compliance with Water Quality Standards

11. a. Pursuant to Section 301 of the federal Clean Water Act, 33 U.S.C. § 1311 and 40 CFR § 122.4, discharges from the CSOs, including the outfalls listed in this Special Condition and any other outfall listed as a “Treated Combined Sewage Outfall”, shall not cause or contribute to violations of applicable water quality standards or cause use impairment in the receiving waters. In addition, discharges from CSOs shall comply with all applicable parts of 35 Ill. Adm. Code 306.305(a), (b), (c), and (d).

b. The Permittee shall document all efforts made to secure grant funding to construct the effluent and 10th Street pump stations. Documentation shall be submitted to the Illinois EPA on an annual basis until funding is secure. Once funding is secure the Permittee shall notify the Illinois EPA and obtain construction permits and prepare a post construction compliance monitoring as required in 11 C of this permit.

c. Pursuant to Section I.C.1 and Section II.C.9 of the Policy, the Permittee shall develop a post-construction water quality monitoring program adequate to verify compliance with water quality standards and to verify protection of designated uses in the receiving water(s) and to ascertain the effectiveness of CSO controls. Guidance on post construction monitoring plans is available at: http://www.epa.gov/npdes/pubs/final_draft_cso_pccm_guidance.pdf. This program shall contain a plan that details the monitoring protocols to be followed, including any necessary effluent and ambient monitoring, and if appropriate, other monitoring protocols such as biological assessments, whole effluent toxicity testing, and sediment sampling. This plan shall be presented to the public at an informational meeting 15 months prior to construction completion. The Permittee shall submit 12 months prior to construction completion a summary of all significant issues raised by the public, the Permittee’s response to each issue, and three (3) copies of the final plan (revised following the public meeting, if necessary) implementing the post-construction monitoring program. The post-construction monitoring plan shall be implemented within six (6) months of the date of IEPA approval. The Permittee shall respond to an IEPA review letter in writing within ninety (90) days of the date of such an initial review
Special Conditions

letter and within thirty (30) days of any subsequent review letter(s), if any. Within thirty (30) months of the approval of the plan, the results shall be submitted to the IEPA along with recommendations and conclusions as to whether or not the discharges from any of the CSOs (treated or untreated) authorized by this Permit are causing or contributing to violations of applicable water quality standards or causing use impairment in the receiving water(s).

d. Should the results of the post-construction water quality monitoring plan or any other information that the discharges from any of the CSOs (treated or untreated) authorized to discharge under this Permit (i.e., in compliance with the numeric water quality based effluent limitations of this Permit) are causing or contributing to violations of water quality standards or are causing use impairment in the receiving water(s), and so do not comply with provisions of Paragraph 11.A above, the Permittee shall develop and submit to IEPA three copies of a CSO Long-Term Control Plan (LTCP) that included measures for ensuring that the discharges from the CSOs (treated or untreated) authorized in this Permit comply with the provisions of Paragraph 11.A above.

If IEPA notifies the Permittee in writing that it has concluded that discharges from any of the CSOs are causing or contributing to violations of water quality standard or are causing use impairment in the receiving waters, then the Permittee shall develop and submit to IEPA three (3) copies of a LTCP within twelve (12) months of receiving the IEPA written notice. The LTCP shall include measures necessary for assuring that the discharges from the CSOs (treated or untreated) authorized in this Permit comply with the provisions of Paragraph 11.A above.

Following submittal of the LTCP, the Permittee shall respond to any initial IEPA review letter in writing within ninety (90) days of the date of such a review letter, and within thirty (30) days of any subsequent review letter(s), if any. The Permittee may be required to implement the LTCP, or another remedy for addressing CSOs, through an enforcement action, permit modification or other enforceable mechanism

12. A public notification program in accordance with Section II.B.8 of the federal CSO Control Policy of 1994 shall be developed employing a process that actively informs the affected public. The program shall include at a minimum public notification of CSO occurrences and CSO impacts, with consideration given to including mass media and/or Internet notification. The Permittee shall also consider posting signs in waters likely to be impacted by CSO discharges at the point of discharge and at points where these waters are used for primary contact recreation. Provisions shall be made to include modifications of the program when necessary and notification to any additional member of the affected public. The program shall be presented to the general public at a public information meeting conducted by the Permittee. The Permittee shall conduct the public information meeting within nine (9) months of the effective date of this Permit. The Permittee shall submit documentation that the public information meeting was held, shall submit a summary of all significant issues raised by the public and the Permittee’s response to each issue and shall identify any modifications to the program as a result of the public information meeting. The Permittee shall submit the public information meeting documentation to the IEPA and implement the public notification program within twelve (12) months of the effective date of this Permit. The Permittee shall submit copies of the public notification program to the IEPA upon written request.

13. If any of the CSO discharge points listed in this Special Condition are eliminated, or if additional CSO discharge points, not listed in this Special Condition, are discovered, the Permittee shall notify the IEPA in writing within one (1) month of the respective outfall elimination or discovery. Such notification shall be in the form of a request for the appropriate modification of this NPDES Permit.

H. Summary of Compliance Dates in this CSO Special Condition

14. The following summarizes the dates that submittals contained in this Special Condition are due at the IEPA (unless otherwise indicated):

- Submission of CSO Monitoring Data (Paragraph 1): 25th of every month
- Submission of Revised CSO O&M Plan (Paragraph 9): 1 month from revision date
- Elimination of a CSO or Discovery of Additional CSO: 1 month from discovery or elimination
- Control (or Justification for No Control) of CSOs to Sensitive Areas: 3 months from IEPA notification
- Certification of Sewer Use Ordinance Review (Paragraph 10): 6 months from the effective date of this Permit
- Conduct OMP and Public Information Meeting (Paragraph 9): 9 months from the effective date of this Permit

No Submittal Due with this Milestone
Special Conditions

Submit Pollution Prevention and OMP Certification 12 months from the effective date of this Permit

Submit PN Information Meeting Summary (Paragraph 12) 60 days after public meeting

Submit Documentation of Efforts to Secure Grant Money To Construct Effluent and 10th Street pump stations (Paragraph 11) 12 months from the effective date of this Permit

Submit updated LTCP of LTCP-EZ 48 months from the effective date of this Permit

All submittals listed in this Special Condition can be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

ORSANCO
Attn: Permits
5735 Kellogg Avenue
Cincinnati, Ohio 45228-1112

Attention: CSO Coordinator, Compliance Assurance Section

All submittals hand carried shall be delivered to 1021 North Grand Avenue East.

I. Reopening and Modifying this Permit

15. The IEPA may initiate a modification for this Permit at any time to include requirements and compliance dates which have been submitted in writing by the Permittee and approved by the IEPA, or other requirements and dates which are necessary to carry out the provisions of the Illinois Environmental Protection Act, the Clean Water Act, or regulations promulgated under those Acts. Public Notice of such modifications and opportunity for public hearing shall be provided.

SPECIAL CONDITION 17. This Permit may be modified to include alternative or additional final effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or upon completion of an alternate Water Quality Study.

SPECIAL CONDITION 18. BOD₅ and Suspended Solids (85% removal required) For Discharge No. 001: 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 CBOD₅ concentration to determine the effluent BOD₅ 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 19. The Permittee shall, within twenty four (24) months of the effective date of this permit, prepare and submit to the Agency a feasibility study that identifies the method, timeframe, and costs of reducing phosphorus levels in its discharge to a level consistently meeting a potential future effluent limit of 1 mg/L, 0.5 mg/L and 0.1 mg/L. The study shall evaluate the construction and O & M costs of the application of these limits on a monthly, seasonal and annual average basis.

SPECIAL CONDITION 20. The Permittee shall develop and submit to the Agency a Phosphorus Discharge Optimization Plan within twenty four (24) months of the effective date of this permit. The plan shall include a schedule for the implementation of these optimization measures. Annual progress reports on the optimization of the existing treatment facilities shall be submitted to the Agency by March 31 of each year. In developing the plan, the Permittee shall evaluate a range of measures for reducing phosphorus discharges from the treatment plant, including possible source reduction measures, operational improvements, and minor facility modifications that will optimize reductions in phosphorus discharges from the wastewater treatment facility. The Permittee’s evaluation shall include, but not be limited to, an evaluation of the following optimization measures:

A. WWTF influent reduction measures.
   1. Evaluate the phosphorus reduction potential of users.
   2. Determine which sources have the greatest opportunity for reducing phosphorus (i.e., industrial, commercial, institutional, municipal and others).
      a. Determine whether known sources (i.e., restaurant and food preparation) can adopt phosphorus minimization and water conservation plans.
      b. Evaluate and implement local limits on influent sources of excessive phosphorus.

B. WWTF effluent reduction measures.
   1. Reduce phosphorus discharges by optimizing existing treatment processes.
Special Conditions

a. Adjust the solids retention time for nitrification, denitrification, or biological phosphorus removal.
b. Adjust aeration rates to reduce dissolved oxygen and promote simultaneous nitrification-denitrification.
c. Add baffles to existing units to improve microorganism conditions by creating divided anaerobic, anoxic, and aerobic zones.
d. Change aeration settings in plug flow basins by turning off air or mixers at the inlet side of the basin system.
e. Minimize impact on recycle streams by improving aeration within holding tanks.
f. Reconfigure flow through existing basins to enhance biological nutrient removal.
g. Increase volatile fatty acids for biological phosphorus removal.