

NPDES Permit No. IL0068764
Notice No. DGN:06061302.daa

Public Notice Beginning Date: **August 14, 2006**

Public Notice Ending Date: **September 13, 2006**

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 Discharger:	Name and Address of Facility:
Village of Gilberts 87 Galligan Road Gilberts, Illinois 60136	Village of Gilberts WWTP 281 Raymond Drive Gilberts, Illinois (Kane 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 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 indicates 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 Don Netemeyer 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 Village of Gilberts.

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, Tyler Creek, is 0.72 cfs.

The design average flow (DAF) for the **re-rated** facility is 1.0 million gallons per day (MGD) and the design maximum flow (DMF) for the re-rated facility is 2.0 MGD.

The design average flow (DAF) for the proposed **expanded** facility is 2.5 million gallons per day (MGD) and the design maximum flow (DMF) for the expanded facility is 5.0 MGD.

Treatment consists of screening, activated sludge, clarification, filtration (for the proposed expansion) and ultraviolet disinfection.

This modified NPDES Permit increases the facility's DAF, DMF, concentration limits, and/or load limits.

The IEPA will accept comments on the following draft modifications to the Permit:

1. The original permit which was issued prior to the design of the waste water treatment plant was rated at 0.8 MGD, DAF. However, the plant was originally designed and constructed to treat 1.0 MGD, DAF. As such, Page 2 of the permit has been updated to reflect limits based upon the re-rated design flows.
2. Page 3 effluent limitations has been added for the proposed expanded facilities.
3. Phosphorus limits have been included for both existing and proposed facilities.
4. A compliance schedule for meeting phosphorus limits has been included in Special Condition 14.
5. Special Condition 9 (metals monitoring) and Special Condition 13 (biomonitoring) have been added as required for major discharges.
6. Special Condition 2 has been revised to require a class 1 operator.

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

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Biological Stream Characterization
001	Tyler Creek	42 ⁰ 5' 12" North	88 ⁰ 20' 00" West	General Use	B

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

The stream segment(s) receiving the discharge from outfall(s) 001 is (are) not on the 303 (d) list of impaired waters.

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): 001 STP Outfall

Load limits for the **re-rated** facility are computed based on a design average flow (DAF) of 1.0 MGD (design maximum flow (DMF) of 2.0 MGD).

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

Parameter	LOAD LIMITS lbs/day* _____ DAF (DMF)			CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	
CBOD ₅	83 (167)		167 (334)	10		20	35 IAC 304.120 40 CFR 133.102
Suspended Solids	100 (200)		200 (400)	12		24	35 IAC 304.120 40 CFR 133.102
Dissolved Oxygen	Shall not be less than 6 mg/L						35 IAC 302.206
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL (May through October)						35 IAC 304.121
Ammonia Nitrogen:							
March	17 (33)	42 (83)	59 (118)	2.0	5.0	7.1	35 IAC 355 and 35 IAC 302
April-May/Sept.-Oct.	13 (25)	----	25 (50)	1.5	----	3.0	
June-August	12 (23)	----	25 (50)	1.4	----	3.0	
Nov.-Feb.	33 (67)	----	67 (133)	4.0	----	8.0	
Phosphorus	8.3 (17)			1.0			35 IAC 304.123

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

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): 001 STP Outfall

Load limits for the **expanded** facility are computed based on a design average flow (DAF) of 2.5 MGD (design maximum flow (DMF) of 5.0 MGD).

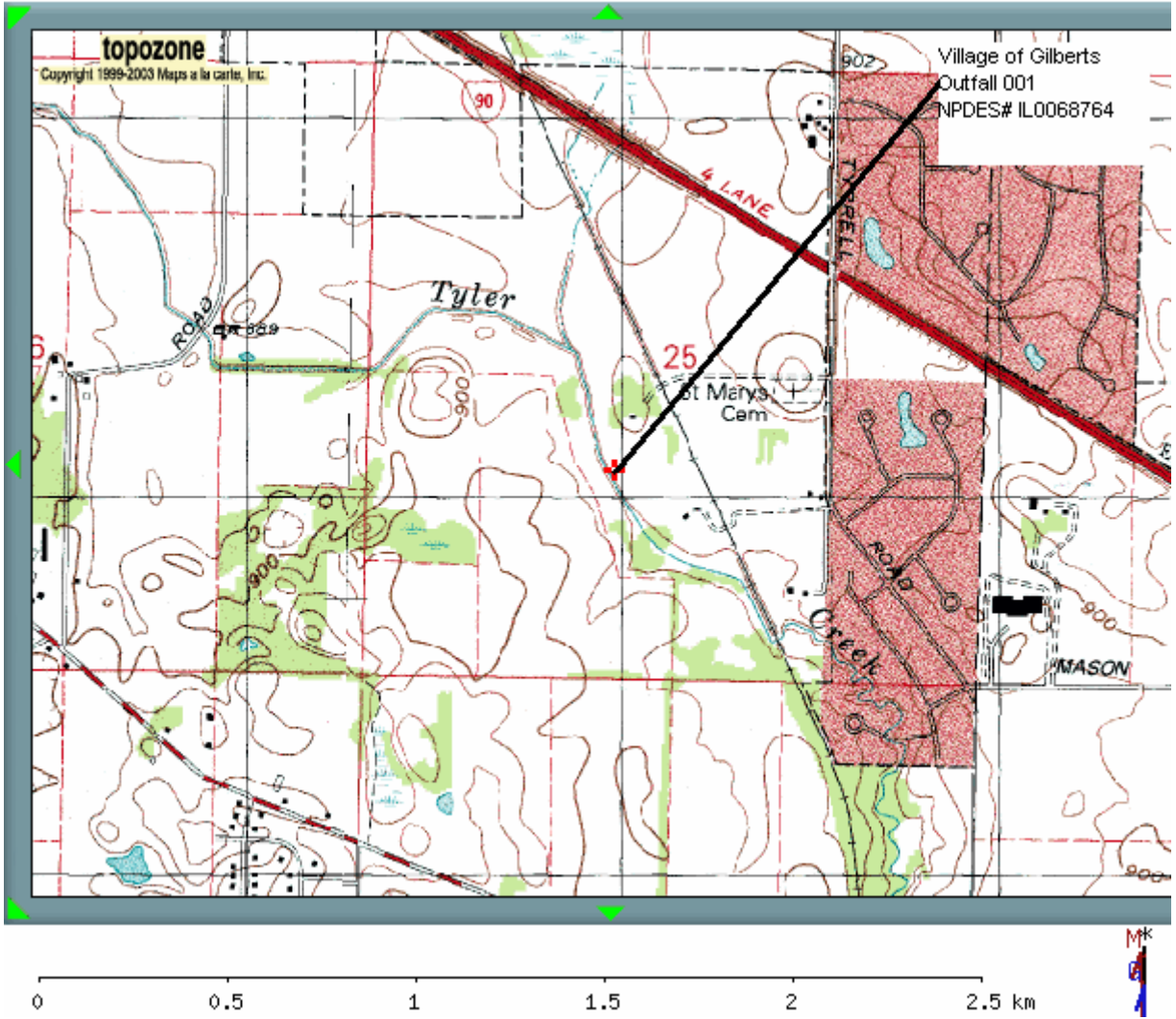
The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day* DAF (DMF)			CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	
CBOD ₅	209 (417)		417 (834)	10		20	35 IAC 304.120 40 CFR 133.102
Suspended Solids	250 (500)		500 (1001)	12		24	35 IAC 304.120 40 CFR 133.102
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March	42 (83)	104 (209)	148 (296)	2.0	5.0	7.1	35 IAC 355 and 35 IAC 302
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Nov.-Feb.	83 (167)	----	167 (334)	4.0	----	8.0	
Phosphorus	21 (42)			1.0			35 IAC 304.123

*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. Effluent sampling point location.
7. A requirement to monitor and a limit of 0.05 mg/L for residual chlorine when it is used.
8. Seasonal fecal coliform limits.
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 eighteen (18) months prior to the expiration date and again at twelve (12) months prior to the expiration date and to submit the results of such tests with the NPDES renewal application prior to filing of the NPDES renewal application.
10. Submission of annual fiscal data.
11. 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.
12. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
13. 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.
14. Compliance schedule for meeting phosphorus limits.



Antidegradation Assessment for Gilberts STP
NPDES Permit No. IL0068764 Kane County

The subject facility has applied for an NPDES permit for an expanded treatment plant with a DAF increasing from 0.8 to 2.5 MGD. The expanded plant will provide phosphorus and nitrogen removal. Created wetlands will initially receive the effluent. The discharge will remain to Tyler Creek via the wetlands.

Identification and Characterization of the Affected Water Body.

Tyler Creek (segment DTZP-02) has a 7Q10 flow of 0.72 cfs and is a General Use water. The stream is not listed on the 2004 Illinois 303(d) List of impaired waters. According to the 2004 305(b) report, the stream is fully supportive of designated uses. The stream is rated as a "B" stream under the Agency's Biological Stream Characterization (BSC) system. The stream is not listed as a biologically significant stream in the 1992 Illinois Natural History Survey Publication *Biologically Significant Illinois Streams*. The IDNR WIRT system lists the state threatened slippershell mussel as inhabiting the receiving stream downstream of the existing discharge.

Tyler Creek has been extensively studied over the past few years. The most recent study is by Huff & Huff conducted in September, 2004 and was commissioned by Gilberts for the antidegradation assessment for the expanded plant. Fish, macroinvertebrates and mussels were surveyed in this effort. The fish survey found no significant differences between upstream and downstream sites relative to the existing discharge. Overall, fish Index of Biotic Integrity (IBI) values were lower than those calculated from previous studies conducted by IDNR. The Huff & Huff fish survey IBI values would put the stream in the "C" category of BSC while previous studies put the rating at "B". Such variability is not uncommon given different weather-related stream conditions that may be present from year to year. Macroinvertebrate data also showed similar conditions upstream and downstream of the existing discharge. Macroinvertebrate data indicate that population quality conditions are about average to slightly better than average in the stream. Both fish and macroinvertebrate results show that the existing discharge is probably not having an adverse impact on the stream. A mussel survey conducted in 2003 as part of the overall Huff & Huff survey found no threatened or endangered species in the study area. The state threatened slippershell was not rediscovered at the sampling station where it was found before although it must be noted that the recent survey was not as extensive as the 2001 survey that found this species.

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

The expanded Gilberts plant will be designed to remove both phosphorus and nitrogen. No nitrogen permit limits are appropriate at this time. Loading of nitrogen will increase by the time the expanded plant is fully loaded, but this increase will be tempered by the nitrogen removal capabilities of the plant. Phosphorus will be limited to 1.0 mg/L because the expanded plant will have a capacity greater than 1 MGD. Given that the existing plant does not remove phosphorus, the loading of phosphorus will only minimally increase once the expanded plant is treating effluent at full capacity. The Illinois Nutrient Standards Workgroup has been convened to develop nutrient standards and will strive to keep NPDES permitted dischargers aware of its findings, allowing them to anticipate future nutrient permit limits. A future NPDES permit for this facility may be subject to limits based on these yet to be developed standards.

Ammonia, BOD and solids loading will also increase due to the expansion of the plant. However, the artificial wetlands initially receiving the effluent will to some degree mitigate this loading increase. The existing plant discharges to a five acre wetland created between the effluent outfall and Tyler Creek. The wetland serves to increase residence time before the effluent is released to the creek. Wetlands are thought to remove nutrients and alter BOD and ammonia. Wetlands also allow for some groundwater recharge. Since the expanded plant will have a larger design average flow, a new wetland will be created to supply benefits to the increased volume of discharge. A residential development called Ryland West has land that is designated to remain as open space. About 30 acres of this land is to be converted to wetlands and will receive 70% of the treated Gilberts effluent. The other 30% of the effluent will be sent to the existing artificial wetland.

Fate and Effect of Parameters Proposed for Increased Loading.

The BOD and ammonia discharged by this facility will decay into simpler and harmless byproducts by naturally occurring organisms in the wetlands and then in the receiving stream. Some of the nitrogen originating in the ammonia will remain in the stream in the form of nitrates or organic nitrogen. Ammonia and dissolved oxygen water quality standards will not be exceeded by this discharge. Plants in the wetlands may take up some nitrogen and phosphorus.

Purpose and Anticipated Benefits of the Proposed Activity.

The Gilberts area is expecting large rates of growth in the coming years. The existing sewage treatment plant can only handle this growth for a short time before it becomes overloaded. The expansion should suffice to treat the community's wastewater for the expected design life of the plant.

Assessments of Alternatives for Less Increase in Loading or Minimal Environmental Degradation.

The plans for construction of a nitrifying treatment plant with nutrient removal capabilities are consistent with appropriate technology for this

size and type of project. Additionally, the expanded plant will employ ultra-violet radiation disinfection and therefore chlorine will not be utilized. Treatment plant specifications have been selected to avoid or minimize environmental impacts. They also represent an economically reasonable design taking into consideration both initial capital costs and ongoing maintenance expenses.

Regionalization with neighboring communities was rejected due to the cost of transmitting sewage over long distances. Gilberts is planning to serve its FPA as development occurs.

Land application was also considered. This option was more expensive than expansion of the existing treatment plant given that not all remaining farmland in the area has soils suitable for land application. Suitable soils are scattered throughout the area, increasing the transmission cost. The acreage of land needed would be prohibitively costly. This option was rejected as too expensive.

Partial use of treated effluent for irrigation was considered and a plan to construct a gray water distribution system was adopted by the Village. New developments in the community will be required to install a distribution system for the treated effluent. Common areas of the subdivisions will be irrigated with this water or commercial/industrial users of water will have access. At this point it is unknown exactly how much water will be used, but the main use of the treated effluent will be during the growing season. Still, effluent volume discharged to the created wetlands and Tyler Creek will be reduced due to effluent re-use.

The Village has also adopted plans to minimize non-point source pollution resulting from development of the Gilberts area. The Village has strengthened ordinances dealing with stormwater BMPs and stream enhancement requirements when developments are located along stream corridors. The Village will also organize educational workshops to ensure that developers and Village officials are aware of watershed planning and environmental management techniques.

Summary Comments of the Illinois Department of Natural Resources, Regional Planning Commissions, Zoning Boards or Other Entities

The Illinois Department of Natural Resources was provided with a copy of the permit application for the expanded facility on June 22, 2005. IDNR was a participant in a Technical Advisory Group (TAG) along with environmental advocacy groups and other governmental agencies. The TAG discussed the alternatives given above and a general consensus was said to have been reached on the expanded plant and related measures as adopted by the Village. An endangered species consultation termination letter had not been received as of the date of this memo.

Agency Conclusion.

This assessment was conducted pursuant to the Illinois Pollution Control Board regulation for Antidegradation found at 35 Ill. Adm. Code 302.105 (antidegradation standard). We find that the proposed activity will result in the attainment of water quality standards. All existing uses will be fully protected. All technically and economically reasonable measures to avoid or minimize the extent of the proposed increase in pollutant loading have been incorporated into the proposed activity. This activity will benefit the community at large by providing adequate sewage treatment for the community for the immediate future. The proposed activity is therefore compliant with the Antidegradation standard.

NPDES Permit No. IL0068764

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: November 30, 2009

Issue Date: November 15, 2004

Effective Date: December 1, 2004

Modification Date:

Name and Address of Permittee:	Facility Name and Address:
Village of Gilberts 87 Galligan Road Gilberts, Illinois 60136	Village of Gilberts WWTP 281 Raymond Drive Gilberts, Illinois (Kane County)

Receiving Waters: Tyler 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:DGN:06061302.daa

NPDES Permit No. IL0068764

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall

Load limits computed based on a design average flow (DAF) of 1.0 MGD (design maximum flow (DMF) of 2.0 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 operational date of the expanded facility, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS MG/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ **	83 (167)		167 (334)	10		20	3 Days/Week	Composite
Suspended Solids	100 (200)		200 (400)	12		24	3 Days/Week	Composite
Dissolved Oxygen	Shall not be less than 6 mg/L						3 Days/Week	Grab
pH	Shall be in the range of 6 to 9 Standard Units						3 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)						3 Days/Week	Grab
Ammonia Nitrogen:								
March	17 (33)	42 (83)	59 (118)	2.0	5.0	7.1	3 Days/Week	Composite
April-May/Sept.-Oct.	13 (25)	----	25 (50)	1.5	----	3.0	3 Days/Week	Composite
June-August	12 (23)	----	25 (50)	1.4	----	3.0	3 Days/Week	Composite
Nov.-Feb.	33 (67)	----	67 (133)	4.0	----	8.0	3 Days/Week	Composite
Phosphorus****	8.3 (17)			1.0			3 Days/Week	Composite

*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.

***See Special Condition 8.

****See Special Condition 14.

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 daily maximum.

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

Dissolved oxygen shall be reported on DMR as minimum.

Samples may be taken prior to discharge to the enhancement wetland.

NPDES Permit No. IL0068764

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall

Load limits computed based on a design average flow (DAF) of 2.5 MGD (design maximum flow (DMF) of 5.0 MGD).

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

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

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS MG/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ **	209 (417)		417 (834)	10		20	3 Days/Week	Composite
Suspended Solids	250 (500)		500 (1001)	12		24	3 Days/Week	Composite
Dissolved Oxygen	Shall not be less than 6 mg/L						3 Days/Week	Grab
pH	Shall be in the range of 6 to 9 Standard Units						3 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)						3 Days/Week	Grab
Ammonia Nitrogen as (N)								
March	42 (83)	104(209)	148 (296)	2.0	5.0	7.1	3 Days/Week	Composite
April-May/Sept.-Oct.	31 (63)	----	63 (125)	1.5	----	3.0	3 Days/Week	Composite
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Nov.-Feb.	83 (167)	----	167 (334)	4.0	----	8.0	3 Days/Week	Composite
Phosphorus****	21 (42)			1.0			3 Days/Week	Composite

*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.

***See Special Condition 8.

****See Special Condition 14.

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 daily maximum.

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

Dissolved oxygen shall be reported on DMR as minimum.

Samples may be taken prior to discharge to the enhancement wetland.

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Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

Parameter	Sample Frequency	Sample Type
Flow (MGD)	Continuous	IRT*
BOD ₅	3 Days/Week	Composite
Suspended Solids	3 Days/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.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly average concentration.

*Indicating, Recording, Totalizing.

NPDES Permit No. IL0068764

Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws, regulations, or judicial orders. 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 1 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 122.63 and Without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.

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. 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 7. For Discharge No. 001, 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 8. Fecal Coliform limits for Discharge Number 001 are effective May thru October. Sampling of Fecal Coliform is only required during this time period.

SPECIAL CONDITION 9. The Permittee shall monitor the effluent and report concentrations (in mg/L) of the following listed parameters eighteen (18) months prior to the expiration date and again at twelve (12) months prior to the expiration date. 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:

<u>STORET</u> <u>CODE</u>	<u>PARAMETER</u>	<u>Minimum</u> <u>reporting limit</u>
01002	Arsenic	0.05 mg/L
01007	Barium	0.5 mg/L
01027	Cadmium	0.001 mg/L
01032	Chromium (hexavalent) (grab)	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
00718	Cyanide (grab) (weak acid dissociable)	5.0 ug/L
00720	Cyanide (grab not to exceed 24 hours) (total)	5.0 ug/L
00951	Fluoride	0.1 mg/L
01045	Iron (total)	0.5 mg/L
01046	Iron (Dissolved)	0.5 mg/L
01051	Lead	0.05 mg/L
01055	Manganese	0.5 mg/L
71900	Mercury (grab) (using USEPA Method 1631 or equivalent)	1.0 ng/L*
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent) (Grab Sample only)	5.0 mg/L
32730	Phenols (grab)	0.005 mg/L
01147	Selenium	0.005 mg/L
01077	Silver (total)	0.003 mg/L
01092	Zinc	0.025 mg/L

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.

NPDES Permit No. IL0068764

Special Conditions

SPECIAL CONDITION 10. 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 11. The Permittee shall conduct biomonitoring of the effluent from Discharge Number(s) 001.

Biomonitoring

1. Acute Toxicity - Standard definitive acute toxicity tests shall be run on at least two 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. Unless substitute tests are pre-approved; the following tests are required:
 - a. Fish - 96 hour static LC₅₀ Bioassay using fathead minnows (*Pimephales promelas*).
 - b. Invertebrate 48-hour static LC₅₀ Bioassay using *Ceriodaphnia*.
2. Testing Frequency - The above tests shall be conducted using 24-hour composite samples unless otherwise authorized by the IEPA. Samples must be collected in the 18th, 15th, 12th, and 9th month prior to the expiration date of this Permit.
3. Reporting - Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory. Reports are due to the IEPA no later than the 16th, 13th, 10th, and 7th month prior to the expiration date of this Permit.
4. Toxicity Reduction Evaluation - Should the results of the biomonitoring program identify toxicity, 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 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 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 23 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.

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

Illinois Environmental Protection Agency

NPDES Permit No. IL0068764

Special Conditions

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. The Permittee shall record monitoring results on Discharge Monitoring Report 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 completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Discharge Monitoring Reports shall be mailed to the IEPA at 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: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 14. Twelve (12) months from the modification date of this Permit the phosphorus limits on page 2 of this permit shall become effective.

The Permittee shall complete the necessary plant upgrades for phosphorus removal to meet these limits in accordance with the following schedule:

- (1) Interim Report 6 months from the modification date of this Permit.
- (2) Submit Plans and Specifications 9 months from the modification date of this Permit
- (3) Permittee Achieves Compliance 12 months from the modification date of this Permit

This permit may be modified, with Public Notice, to include revised compliance dates set out in this Permit that are superseded or supplemented by compliance dates in judicial orders, Pollution Control Board orders or grant agreements. Prior to such permit modifications, the revised dates in the appropriate orders or grant agreements shall govern the Permittee=s compliance.

In addition, the IEPA may initiate a modification of the schedule set forth in this permit at any time, to include other dates which are necessary to carry out the provisions of the Environmental Protection Act, the Federal Clean Water Act or regulations promulgated under those Acts or compliance dates which have been submitted in writing by the Permittee and approved by the IEPA. Public Notice of such modifications and opportunity for public hearing shall be provided consistent with 40 CFR 122.63.

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Special Conditions

The Permittee shall submit a report no later than fourteen (14) days following the completion dates indicated for each number item in the compliance schedule, indicating, a) the date the item was completed, or b) that the item was not completed. All reports shall be submitted to IEPA at 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