

HENRY C. LIST
SECRETARY



PAUL E. PATTON
GOVERNOR

RECEIVED BY KPDES BRANCH

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601

AUG 12 2006

Mr. Herbert J. Schardein
Acting Executive Director
Louisville and Jefferson County
Metropolitan Sewer District
700 West Liberty Street
Louisville, Kentucky 40203-1911

Re: Cedar Creek STP
KPDES No.: KY0098540
Jefferson County, Kentucky

Dear Mr. Schardein:

Enclosed is the Kentucky Pollutant Discharge Elimination System (KPDES) permit for the above-referenced facility. This action constitutes a final permit issuance under 401 KAR 5:075, pursuant to KRS 224.16-050.

Your facility is being issued a permit that is shorter than the normal five-year term in order to synchronize permit issuance by watershed. Implementation of watershed permitting began in the year 2001 and your targeted permit issuance is based upon your location in the watershed basin.

This permit will become effective on the date indicated in the attached permit provided that no request for adjudication is granted. All provisions of the permit will be effective and enforceable in accordance with 401 KAR 5:075, unless stayed by the Hearing Officer under Sections 11 and 13.

Any demand for a hearing on the permit shall be filed in accordance with the procedures specified in KRS 224.10-420, 224.10-440, 224.10-470 and any regulations promulgated thereto. Any person aggrieved by the issuance of a permit final decision may demand a hearing, pursuant to KRS 224.10-420(2) within thirty (30) days from the date of the issuance of this letter. Two (2) copies of request for hearing should be submitted in writing to the Natural Resources and Environmental Protection Cabinet, Office of Administrative Hearings, 35-36 Fountain Place, Frankfort, Kentucky 40601 and the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, Division of Water, 14 Reilly Road, Frankfort, Kentucky 40601. For your record keeping purposes, it is recommended that these requests be sent by certified mail. The written request must conform to the appropriate statutes referenced above.



Mr. Herbert J. Schardein
Cedar Creek STP/KY0098540
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If you have any questions regarding the KPDES decision, please contact Courtney Seitz, Inventory and Data Management Section, KPDES Branch, at (502) 564-2225, extension 465.

Further information on procedures and legal matters pertaining to the hearing request may be obtained by contacting the Office of Administrative Hearings at (502) 564-7312.

Sincerely,

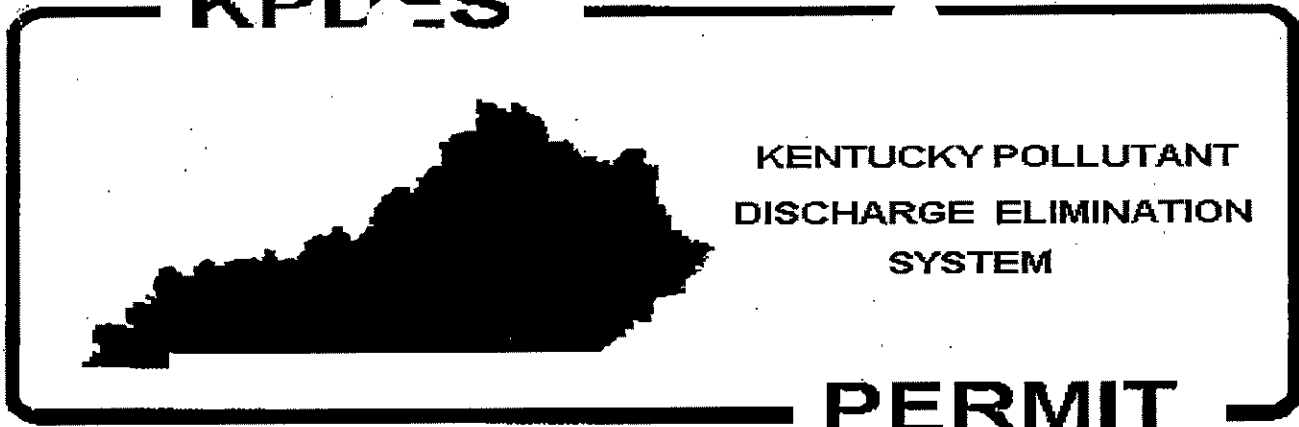


Jeffrey W. Pratt, Director
Division of Water

JWP:NG:ng
Enclosure

c: U.S. EPA Region IV
Louisville Regional Office
Division of Water Files

KPDES



PERMIT NO.: KY0098540

AUTHORIZATION TO DISCHARGE UNDER THE KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Pursuant to Authority in KRS 224,

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville, Kentucky 40203-1911

is authorized to discharge from a facility located at

Cedar Creek STP
8405 Cedar Creek Road
Jefferson County, Kentucky
Louisville, Jefferson County, Kentucky

to receiving waters named

Name/Mile Point - Cedar Creek/11.9

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and IV hereof. The permit consists of this cover sheet, and Part I 3 pages, Part II 4 pages, Part III 1 page, and Part IV 3 pages.

This permit shall become effective on **OCT 1 2003**

This permit and the authorization to discharge shall expire at midnight, February 29, 2008

AUG 12 2003

Date Signed

Jeffrey W. Pratt, Director
Division of Water

Robert W. Logan
Commissioner

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, Kentucky 40601

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through completion of expansion, the permittee is authorized to discharge from Outfall serial number: 001, Municipal Discharge.

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS		
	lbs/day		Other Units (Specify)		Measurement	Sample	Sampling
	Monthly	Weekly	Monthly	Weekly	Frequency	Type	Location
	Avg.	Avg.	Avg.	Avg.			
Flow, Design (2.5 mgd)	N/A	N/A	Report	Report***	Continuous	N/A	Influent or Effluent
Biochemical Oxygen Demand (5-day), Carbonaceous	208	313	10 mg/l	15 mg/l	3/week	Composite	Influent & Effluent
Total Suspended Solids	625	938	30 mg/l	45 mg/l	3/week	Composite	Influent & Effluent
Fecal Coliform Bacteria, N/100	N/A	N/A	200	400	3/week	Grab	Effluent
Ammonia (as N)	83 208	125 313	4 mg/l* 10 mg/l**	6 mg/l* 15 mg/l**	3/week	Composite	Influent & Effluent
Dissolved Oxygen shall not be less than 7 mg/l					3/week	Grab	Effluent
Phosphorus, Total (as P)	21 42	31 52	1.0 mg/l 2.0 mg/l	1.5 mg/l* 2.5 mg/l**	3/week 3/week	Composite Composite	Effluent Effluent
Biomonitoring shall not exceed 1.00 toxicity unit(s)					See PART IV, Pages IV-1 and IV-2		Effluent
Additional Parameters					See PART I, Page I-2		Effluent

In addition to the specified limits, the monthly average effluent CBOD₅ and suspended solids concentration shall not exceed 15% of the respective monthly average influent concentration (85% removal).

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored (3) times per week by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The effluent shall not cause a visible sheen on the receiving water.

* Effective May 1 - October 31
 ** Effective November 1 - April 30
 *** Daily maximum limitation

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning with completion of expansion and lasting through the term of this permit, the permittee is authorized to discharge from Outfall serial number: 001, Municipal Discharge.

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTICS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS		
	lbs/day		Other Units (Specify)		Measurement Frequency	Sample Type	Sampling Location
Monthly Avg.	Weekly Avg.	Monthly Avg.	Weekly Avg.				
Flow, Design (7.5 mgd)	N/A	N/A	Report	Report***	Continuous	N/A	Influent or Effluent
Biochemical Oxygen Demand (5-day), Carbonaceous	625	938	10 mg/l	15 mg/l	3/week	Composite	Influent & Effluent
Total Suspended Solids	1876	2815	30 mg/l	45 mg/l	3/week	Composite	Influent & Effluent
Fecal Coliform Bacteria, N/100	N/A	N/A	200	400	3/week	Grab	Effluent
Ammonia (as N)	250 625	375 938	4 mg/l* 10 mg/l**	6 mg/l* 15 mg/l**	3/week	Composite	Influent & Effluent
Dissolved Oxygen shall not be less than 7 mg/l					3/week	Grab	Effluent
Phosphorus, Total (as P)	63 125	94 156	1.0 mg/l 2.0 mg/l	1.5 mg/l* 2.5 mg/l**	3/week 3/week	Composite Composite	Effluent Effluent
Biomonitoring shall not exceed 1.00 toxicity unit(s)				See PART IV, Pages IV-1 and IV-2			Effluent
Additional Parameters				See PART I, Page I-2			Effluent

In addition to the specified limits, the monthly average effluent CBOD₅ and suspended solids concentration shall not exceed 15% of the respective monthly average influent concentration (85% removal).

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored (3) times per week by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The effluent shall not cause a visible sheen on the receiving water.

* Effective May 1 - October 31
 ** Effective November 1 - April 30
 *** Daily maximum limitation

PART I
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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUATION)

The effluent shall be monitored for the following parameters in both the total recoverable form and the dissolved form:

lead, copper, zinc, and cadmium.

The effluent shall be monitored for hardness as calcium carbonate (CaCO_3).

Monitoring shall be done in conjunction with biomonitoring.

Testing for these parameters shall be conducted according to 40 CFR Part 136.

B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with all requirements on the effective date of this permit.

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STANDARD CONDITIONS FOR KPDES PERMIT

The permittee is also advised that all KPDES permit conditions in KPDES Regulation 401 KAR 5:065, Section 1 will apply to all discharges authorized by this permit.

This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal and local agencies.

It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods.

SPECIAL POTW REQUIREMENTS

NOTE: The following requirements apply only to Publicly-Owned Treatment Works.

SLUDGE DISPOSAL

Requirements will be imposed, as applicable, governing the disposal of sewage sludge in accordance with 401 KAR Chapters 30, 47, and 48.

PRETREATMENT

A. Program Requirements

1. The permittee shall be responsible for the performance of all pretreatment requirements contained in 401 KAR 5:057, Section 6 and pursuant to 40 CFR Part 403, and shall be subject to enforcement actions, penalties, fines, and other remedies by the state, as provided in the Clean Water Act (hereafter the "Act"). The permittee shall implement and enforce its approved POTW pretreatment program. The permittee's approved POTW pretreatment program is hereby made an enforceable condition of this permit. The state may initiate enforcement action against a POTW and against an industrial user for noncompliance with applicable standards and requirements as provided in KRS 224.16-050(1), 224.70-110, and 224.73-120, and pursuant to the Act.
2. The permittee shall enforce the requirements promulgated under Sections 307(b), 307(c), 307(d), and 402(b) of the Act. The permittee shall cause industrial users subject to federal categorical standards to achieve compliance no later than the date specified in those requirements or, in the case of a new industrial user, upon commencement of the discharge.
3. The permittee shall perform the pretreatment functions as required in 401 KAR 5:057, Section 6 and 40 CFR Part 403 including, but not limited to:
 - a. Implement the necessary legal authorities as provided in 401 KAR 5:057, Section 6(4)(a). This includes, among other things, the authority to:

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- (1) Deny or condition new or increased contributions of pollutants or changes in the nature of pollutants (401 KAR 5:057, Section 6(4)(a)(1));
 - (2) Require compliance with applicable pretreatment standards (401 KAR 5:057, Section 6(4)(a)(2));
 - (3) Control through permit to ensure compliance (401 KAR 5:057, Section 6(4)(a)(3));
 - (4) Require the development of compliance schedules and submission of reports (401 KAR 5:057, Section 6(4)(a)(4));
 - (5) Carry out inspection, surveillance, and monitoring procedures (401 KAR 5:057, Section 6(4)(a)(5));
 - (6) Obtain remedies for noncompliance by industrial users (401 KAR 5:057, Section 6(4)(a)(6)).
- b. Implement the programmatic functions as provided in 401 KAR 5:057, Section 6(4)(b). This includes:
- (1) An industrial waste survey (401 KAR 5:057, Section 6(4)(b)(1 and 2));
 - (2) Notification of appropriate federal, state and/or local standards or limitations (401 KAR 5:057, Section 6(4)(b)(3));
 - (3) Receipt and analysis of self-monitoring reports and other notices, (401 KAR 5:057, Section 6(4)(b)(4));
 - (4) POTW compliance sampling and analysis (401 KAR 5:057, Section 6(4)(b)(5));
 - (5) Noncompliance investigations and enforcement (401 KAR 5:057, Section 6(4)(b)(6));
 - (6) Public participation (401 KAR 5:057, Section 6(4)(b)(7)).
- c. Provide the required funding, equipment, and personnel to implement the pretreatment program as provided in 40 CFR 403.8(f)(3) and 403.9(b)(4).
4. The permittee shall adopt and enforce local limits that will protect the treatment works against interference, pass-through, and sludge contamination. Local limits shall be revised as necessary by the permittee as provided in 40 CFR 122.21 and CFR 403.5.

B. Semi-Annual Reporting

1. The permittee shall submit semi-annually a report to the state describing the permittee's pretreatment program activities over the previous six (6) months. In the event that the permittee is not in compliance with any conditions or requirements of this permit, then the permittee shall also include the reasons for noncompliance and state how and when the permittee shall comply with such conditions and requirements. The semi-annual reports shall cover the periods of January through June and July through December. They are due on September 1 and March 1 of each year, respectively. Each report shall contain, but not be limited to, the following information:

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- a. A summary of analytical results of the POTW's influent, effluent, and sludge for those pollutants identified under Section 307(a) of the Act which are known or suspected to be discharged by industrial users, and for any nonpriority pollutants which the permittee believes may be causing or contributing to interference, pass-through, or adversely impacting sludge quality. The frequency of analysis shall not exceed twelve months.
- b. A discussion of upset, interference, or pass-through incidents, if any, at the POTW treatment plant which the permittee knows or suspects were caused by industrial users of the POTW system. The discussion shall include the reasons why the incidents occurred, the corrective actions taken and, if known, the name and address of the industrial user(s) responsible.
- c. The cumulative number of industrial users that the permittee has notified regarding baseline monitoring reports and the cumulative number of industrial user responses.
- d. An updated list of the permittee's industrial users including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The permittee shall provide a brief explanation for each deletion. The list shall identify the industrial users subject to federal categorical standards and which set(s) of standards are applicable. The permittee shall characterize the compliance status of each industrial user by employing the following descriptions:
 - (1) In compliance with baseline monitoring report requirements (where applicable);
 - (2) Consistently achieving compliance;
 - (3) Inconsistently achieving compliance;
 - (4) Significantly violated applicable pretreatment requirements as defined by 40 CFR 403.8(f)(2)(vii);
 - (5) On a compliance schedule to achieve compliance (include the date final compliance is required);
 - (6) Not achieving compliance and not on a compliance schedule;
 - (7) The permittee does not know the industrial user's compliance status (with explanation).
- e. A summary of the inspection and sampling activities conducted by the permittee during the past six (6) months to gather information and data regarding industrial users. The summary shall include:
 - (1) The names of industrial users subject to surveillance by the permittee and an indication of whether they were inspected, sampled, or both and the frequency of these activities at each user; and
 - (2) The conclusions or results from the inspection or sampling of each industrial user.

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- f. A summary of the compliance and enforcement activities during the past six (6) months, the summary shall include the names of the industrial users affected by the following actions:
- (1) Warning letter or notices of violation;
 - (2) Administrative orders;
 - (3) Civil actions;
 - (4) Criminal actions;
 - (5) Assessment of monetary penalties. For each industrial user identify the amount of the penalties;
 - (6) Restriction of flow to the POTW; or
 - (7) Disconnection from discharge to the POTW.
- g. A description of any significant changes in operating the pretreatment program which differ from the information in the permittee's approved pretreatment program including, but not limited to changes concerning: the program's administrative structure; local industrial discharge limitations; monitoring program or monitoring frequencies; legal authority or enforcement policy; funding mechanisms; resource requirements; or staffing levels.
- h. A summary of the semi-annual pretreatment budget, including the cost of pretreatment program functions and equipment purchases.
- i. A summary of public participation activities to involve and inform the public. This shall include a copy of the annual publication of significant violations, if such publication was needed to comply with 40 CFR 403.8(f)(2)(vii).
- j. A description of any changes in sludge disposal methods and a discussion of any concerns not described elsewhere in the report.
- k. Any other information deemed as pertinent by the state in effectively administering an approved pretreatment program.
2. A signed copy of this report shall be submitted by the due dates to the state at the address shown below:

Kentucky Department of Environmental Protection
Division of Water, KPDES Branch
14 Reilly Road, Frankfort Office Park
Frankfort, Kentucky 40601

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PART III

OTHER REQUIREMENTS

A. Reporting of Monitoring Results

Monitoring results obtained during each month must be reported on a preprinted Discharge Monitoring Report (DMR) Form which will be mailed to you. Each month's completed DMR must be sent to the Division of Water at the address listed below (with a copy to the appropriate Regional Office) postmarked no later than the 28th day of the month following the month for which monitoring results were obtained.

Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222
Attn: Supervisor

Kentucky Natural Resources and
Environmental Protection Cabinet
Dept. for Environmental Protection
Division of Water/KPDES Branch
14 Reilly Road, Frankfort Office Park
Frankfort, Kentucky 40601

B. Reopener Clause

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under 401 KAR 5:050 through 5:080 and KRS 224, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable.

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**PART IV
CHRONIC CONCERNS
Biomonitoring**

In accordance with Part I of this permit, the permittee shall initiate the series of tests described below within 30 days of the effective date of this permit to evaluate wastewater toxicity of the discharge from Outfall 001. If the permittee is using a more sensitive species, the initial four (4) tests shall be conducted using both test species as indicated below to provide confirmation of previously identified most sensitive test organism.

1. Test Requirements

- A. The permittee shall perform one (1) short-term fathead minnow (*Pimephales promelas*) growth test and one (1) short-term daphnid (*Ceriodaphnia* sp.) life-cycle test. Tests shall be conducted with appropriate replicates of 100% effluent, a control and a minimum of four (4) evenly spaced effluent concentrations. If the permit limit is less than 100% effluent and greater than or equal to 75% effluent, then one (1) concentration should be 100%. If the permit limit is less than 75% effluent, the permit limit concentration shall be bracketed with two (2) concentrations above and two (2) concentrations below. The selection of the effluent concentrations is subject to revision by the Division. Controls shall be tested concurrently with effluent testing using a synthetic water. The analysis will be deemed reasonable and good only if the minimum control requirements are met (i.e. >80% survival; 60% adults with 3 broods and 15 young/female for the *Ceriodaphnia* test; an average 0.25 mg weight for the minnow growth test). Any test that does not meet the control acceptability criteria shall be repeated as soon as practicable within the monitoring period (i.e. monthly or quarterly). Noncompliance with the toxicity limit will be demonstrated if the IC₂₅ (inhibition concentration) for reproduction or growth is less than 100% effluent. The average reproduction for *Ceriodaphnia* shall be calculated by dividing the total number of live *Ceriodaphnia* young in each concentration by the total number of organisms used to initiate that concentration; the average growth for the fathead minnows shall be calculated by dividing the total weight of surviving minnow larvae in each replicate by the total number of organisms used to initiate that replicate.
- B. Tests shall be conducted quarterly or at a frequency to be determined by the permitting authority.

A minimum of three (3) twenty-four hour composite samples will be collected at a frequency of one (1) sample every other day, or at a frequency to be determined by the permitting authority. For example, the first sample would be used for test initiation, day 1, and for test solution renewal on day 2. The second sample would be used for test solution renewal on days 3 and 4. The third sample would be used for test solution renewal on days 5, 6, and 7. The lapsed time from collection of the last aliquot of the composite and its first use for test initiation, or for test solution renewal shall not exceed 36 hours. Composite samples shall be iced during collection and maintained at 4°C until used.

After the first four (4) tests with both species, the permittee may request a determination be made by the Division whether one or both organisms will be used for subsequent routine monitoring tests.

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2. Reporting Requirements

Results of all tests conducted with any organism shall be reported according to the most recent format provided by the Division of Water. Test results shall be submitted to the Division of Water with the next regularly scheduled discharge monitoring report.

Due to administrative and regulatory constraints regarding the requirements of Section 3 of this Part, monthly DMRs shall be submitted. Those required to conduct tests on a frequency other than monthly shall submit DMRs with "Not required this monitoring period" typed or written in the parameter row in addition to the DMR reporting the results of the test. All DMRs for Biomonitoring shall be submitted monthly regardless of required monitoring frequency.

3. Chronic Toxicity

- A. If noncompliance with the toxicity limit occurs (IC_{25} for reproduction or growth is less than 100% effluent), the permittee must conduct a second test within 15 days of the first failure. This test will be used in evaluating the persistence of the toxic event and the possible need for a toxicity reduction evaluation (TRE).

If the second test demonstrates noncompliance with the toxicity limit, the permittee will be required to perform either of the options listed below. The Division must be notified of the option selected within five (5) days of the failure of this second test.

1) Accelerated Testing

Complete four (4) tests within 90 days of selection of this option to evaluate the frequency and degree of toxicity. The results of the two (2) tests specified in Section 3.A and of the four (4) additional tests will be used for purposes of this evaluation.

If results from two (2) of any six (6) tests show a significant non-compliance with the chronic limit (≥ 1.2 times the TU_c), or results from four (4) of any six (6) tests show chronic toxicity (as defined in 1.A), a Toxicity Reduction Evaluation (TRE) will be required. The Division reserves the right to require a TRE in situations of recurring toxicity.

2) Toxicity Reduction Evaluation (TRE)

If it is determined that a TRE is required, a plan and implementation schedule must be submitted to the Division within 30 days of notification. The TRE shall include appropriate measures such as in-plant controls, additional wastewater treatment, or changes in the operation of the wastewater discharge to meet permit conditions. The TRE protocol shall follow that outlined in the most recent edition of EPA's guidance for conducting TREs.

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B. If a violation of the toxicity limit occurs, different or more stringent monitoring requirements may be imposed in lieu of the normal requirements of this permit for whatever period of time is specified by the Division of Water. The Division reserves the right to require additional testing or a TRE in situations of recurring toxicity.

4. Test Methods

All test organisms, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (Third Edition), EPA-600-4-91-002, or the most recent edition of this publication.

HENRY C. LIST
SECRETARY



PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601
FACT SHEET

**KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM
PERMIT TO DISCHARGE TREATED WASTEWATER
INTO WATERS OF THE COMMONWEALTH**

KPDES No.: KY0098540 Permit Writer: Johnny Gonzales Date: July 25, 2003

1. **SYNOPSIS OF APPLICATION**

- a. Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville, Kentucky 40203-1911
- b. Engaged in collection, treatment, and disposal of wastewater. The existing Cedar Creek wastewater treatment plant is being expanded from 2.5 MGD to 7.5 MGD. Expansion includes constructing one (1) complete new treatment process (train) rated at 4.5 MGD and updating the existing 2.5 MGD plant, re-rating it to 3.0 MGD. This also includes adding phosphorus removal. Expected expansion completion date is Spring 2003.
- c. Production Capacity of Facility
- | | |
|------------------|--|
| 2.5 MGD Existing | Cedar Creek STP |
| 7.5 MGD Proposed | 8405 Cedar Creek Road |
| | Louisville, Jefferson County, Kentucky |
- d. Description of Existing Pollution Abatement Facilities
- Existing - Treatment processes include screening, grit removal, oxidation ditch, sedimentation, ultra-violet disinfection, sand filtration, and post aeration. Solids are processed by aerobic digestion and transported to the MSD-Morris Forman facility for further treatment and ultimate disposal.
- Proposed - Additional screening, oxidation unit, clarifiers, disinfection, sand filters, and sludge holding have been added. Phosphorus removal has been added.
- e. Permitting Action
- This is a re-issuance of a permit for a municipality, to include expansion.

2. **RECEIVING WATER**

- a. Name/Mile Point - Cedar Creek/11.9
- b. Stream Segment Use Classification - Warmwater Aquatic Habitat and Primary/Secondary Contact Recreation.
- c. Stream Low Flow Condition - 0.0 cfs

3. **REPORTED DISCHARGE & PROPOSED LIMITS**

See Attachment.

CW



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4. METHODOLOGY USED IN DETERMINING LIMITATIONS

Biochemical Oxygen Demand (5-day), Total Suspended Solids, Fecal Coliform, and pH

The effluent limitations for the above permit parameters are consistent with 401 KAR 5:045, pursuant to KRS 224.70-100, 224.70-110.

Ammonia Nitrogen, Dissolved Oxygen, Biomonitoring, and Phosphorus

The effluent limitations for the above permit parameters are consistent with 401 KAR 5:031, pursuant to KRS 224.70-100, 224.70-110. **Phosphorus limitation in the summer and winter months is required for this facility.**

Sludge Management

Requirements will be imposed, as applicable, governing the disposal of sewage sludge in accordance with 401 KAR Chapters 30, 47, and 48.

Antidegradation:

The conditions of 401 KAR 5:029, Section 1(1) have been satisfied by this permit action. A review under Section 1(2), (3), and (4) is not applicable.

5. PROPOSED COMPLIANCE SCHEDULE FOR ATTAINING EFFLUENT LIMITATIONS

Permittee will comply with effluent limitations by the effective date of the permit.

6. PROPOSED SPECIAL CONDITIONS WHICH WILL HAVE A SIGNIFICANT IMPACT ON THE DISCHARGE

None.

7. PERMIT DURATION

Expires February 29, 2008. This expiration date will place the facility in the correct 5-year cycle as per the Kentucky Watershed Management Framework. In this instance, the permit is scheduled for reissuance in March 2008 for the Salt/Licking Basin Management Unit.

8. PERMIT INFORMATION

The application, draft permit, fact sheet, public notice, comments received, and additional information is available from the Division of Water at 14 Reilly Road, Frankfort Office Park, Frankfort, Kentucky 40601.

9. REFERENCES AND CITED DOCUMENTS

All material and documents referenced or cited in this fact sheet are a part of the permit information as described above and are readily available at the Division of Water Central Office. Information regarding these materials may be obtained from the person listed below.

10. CONTACT

For further information contact the individual identified on the Public Notice or the Permit Writer - Johnny Gonzales at (502) 564-2225, extension 521.

11. PUBLIC NOTICE INFORMATION

Please refer to the attached Public Notice for details regarding the procedures for a final decision, deadline for comments and other information required by 401 KAR 5:075, Section 4(2)(e).

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REPORTED DISCHARGE AND PROPOSED LIMITS - Municipal

Serial Number 001

Effluent Characteristics	Reported Discharge			Proposed Limits		COMMENTS
	<u>Average Annual Value</u>	<u>Lowest Monthly Value</u>	<u>Highest Monthly Value</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	
Flow, (MGD)	2.47	1.61	3.53	Existing Design Flow = 2.5 MGD Proposed Design Flow = 7.5 MGD		
CBOD ₅ , mg/l	0.8	0.5	1.1	10	15	
TSS, mg/l	1.6	0.9	4.0	30	45	
Fecal Coliform, N/100 ml	NR	NR	2	200	400	
Ammonia (as N), mg/l	0.3	0.1	0.8	4 mg/l 10 mg/l	6 mg/l 15 mg/l	Summer Winter
Dissolved Oxygen (not less than 7 mg/l)	9.1	7.8	10.6	7 (minimum)		
pH, standard units	NR	7.0	7.3	6.0 - 9.0		
Phosphorus, Total (as P)	NR	NR	NR	1.0 mg/l 2.0 mg/l	1.5 mg/l 2.5 mg/l	Summer Winter
Biomonitoring	Reported values 12/31/00-6/30/02 <1.00			Shall not exceed 1.00 See PART IV, Pages IV-1 and IV-2		