MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0125954

Owner: Lincoln County Public Water Supply District #2
Address: 40 Sydnorville Rd., Troy, MO 63379

Continuing Authority: Same as above
Address: Same as above

Facility Name: Lincoln County PWSD #2, Emerald Estates
Facility Address: Katherine Dr, Troy, MO 63379

Legal Description: NW ¼, SW ¼, NW ¼, Sec.26, T49N, R1W, Lincoln County
Latitude/Longitude: 3859007/-09059360

Receiving Stream: Town Branch (U)
First Classified Stream and ID: Cuivre River (P)(00152)
USGS Basin & Sub-watershed No.: (07110008-050002)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 – POTW - SIC # 4952

Septic tank/recirculating sand filter/chlorination/sludge disposal by contract hauler.
Design population equivalent is 30.
Design flow is 3000 GPD.
Design sludge production is 0.21 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

July 14, 2006          December 5, 2008
Effective Date           Revised

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

July 13, 2011
Expiration Date

Mike Struckhoff, Director, St. Louis Regional Office
### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

<table>
<thead>
<tr>
<th>(OUTFALL NUMBER AND EFFLUENT PARAMETERS)</th>
<th>FINAL EFFLUENT LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UNITS</td>
<td>DAILY MAXIMUM</td>
</tr>
<tr>
<td>Outfall #001 (Note 1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>MGD</td>
<td>*</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand$$_5$$ **</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>Total Suspended Solids**</td>
<td>mg/L</td>
<td></td>
</tr>
<tr>
<td>pH – Units</td>
<td>SU</td>
<td>****</td>
</tr>
<tr>
<td>Ammonia Nitrogen</td>
<td>mg/L</td>
<td>*</td>
</tr>
<tr>
<td>Temperature</td>
<td>°F</td>
<td>*</td>
</tr>
<tr>
<td>Fecal Coliform (Note 2)</td>
<td>#/100 mL</td>
<td></td>
</tr>
<tr>
<td>Total Residual Chlorine (Note 3)</td>
<td>mg/L</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Note 1 – A formal Water Quality review has not been conducted.**

**Note 2 – Final limitations and monitoring requirements for Fecal Coliform and Total Residual Chlorine are applicable only during the recreational season from April 1 through October 31.**

**Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.**

a. Disinfection is required year-round unless the permit specifically states that “Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.” If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.

b. Do not chemically dechlorinate if it is not needed to meet the limits in your permit.

c. If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as “0 mg/L” TRC.
C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, 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.
   b. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri’s Water Quality Standards.
   c. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri’s list of waters of the state not fully achieving the state’s water quality standards, also called the 303(d) list.
      The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.

3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.

   The permittee shall notify the Director as soon as it knows or has reason to believe:
   a. That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:")
      (1) One hundred micrograms per liter (100 µg/L);
      (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
      (4) The level established in Part A of the permit by the Director.
   b. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
   c. That the effluent limit established in part A of the permit will be exceeded.

5. Report as no-discharge when a discharge does not occur during the report period.

   a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
   b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
      (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
      (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
      (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
      (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
      (5) There shall be no significant human health hazard from incidental contact with the water;
      (6) There shall be no acute toxicity to livestock or wildlife watering;
      (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
      (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri’s Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities
   a. Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
   b. If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.
Missouri Department of Natural Resources  
Statement of Basis  
Lincoln Co. PWSD #2, Emerald Estates  
NPDES #: MO-0125954  
Lincoln County

A Statement of Basis (Statement) gives pertinent information regarding the applicable regulations and rational for the development of the NPDES Missouri State Operating Permit (operating permit).

A Statement is not an enforceable part of an operating permit.

Part I – Facility Information

Facility Type: POTW  
Facility SIC Code(s): 4952

Facility Description:
Septic tank/recirculating sand filter/chlorination/sludge disposal by contract hauler.  
Design population equivalent is 30.  
Design flow is 3000 GPD.  
Design sludge production is 0.21 dry tons/year.

<table>
<thead>
<tr>
<th>OUTFALL</th>
<th>DESIGN FLOW (CFS)</th>
<th>TREATMENT LEVEL</th>
<th>EFFLUENT TYPE</th>
<th>DISTANCE TO CLASSIFIED SEGMENT (MI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#001</td>
<td>.0046</td>
<td>Secondary with disinfection</td>
<td>domestic</td>
<td>4.25 miles to Cuivre River</td>
</tr>
</tbody>
</table>

Water Quality History:
Disinfection of the effluent is required because the receiving stream flows through the center of the City of Troy and is very accessible to children.

Comments:
This permit action is an ownership transfer. Lincoln County Public Water Supply District #2 has acquired this treatment facility from the Emerald Estates Homeowners Association. The facility is now a POTW (Publicly Owned Treatment Works). There are some additional permit terms that apply to a POTW; the permit has been modified accordingly.

Since the facility is a POTW it can serve other entities beyond those that were part of the original Homeowners Association. Because of the limited capacity of the treatment facility, Lincoln Co. PWSD #2 is restricted to serving only three entities outside the original Emerald Estates Subdivision. Those are: St. Stephen United Methodist Church, Lincoln County Health Department, and Lincoln County Hwy Department (the later two are located on Highway H).

A formal water quality review will be conducted during renewal of this permit.

Date of Statement: November 26, 2008

Andrew G. Appelbaum, PE  
St. Louis Regional Office  
(314) 416-2960  
andy.appelbaum@dnr.mo.gov