STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION

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-0109380
Owner: Crestview Property Owners Association
Address: 1591 Crestview Drive, Sedalia, MO 65301
Continuing Authority: Same as above
Address: Same as above
Facility Name: Crestview Mobile Home Park
Facility Address: 1591 Crestview Drive, Sedalia, MO 65301
Legal Description: SW ¼, SE ¼, Sec. 6, T45N, R20W, Pettis County
Latitude/Longitude: +3841540/-09309419
Receiving Stream: Tributary to Shaver Creek (U)
First Classified Stream and ID: Tributary to Shaver Creek (C) (03506)
USGS Basin & Sub-watershed No.: (10300103 – 040005)

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 - Mobile Home Park – SIC #6515 – No Certified Operator Required
Single Cell Lagoon/sludge is retained in lagoon.
Design population equivalent is 60.
Design flow is 4,500 gallons per day.
Design sludge production is 0.4 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.

December 19, 2008       December 18, 2013
Effective Date     Expiration Date
Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Karl Fett, Director, Kansas City Regional Office

MO 780-0041 (10-93)
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until three (3) years after the effective date of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

### OUTFALL NUMBER AND EFFLUENT PARAMETER(S) ###

<table>
<thead>
<tr>
<th>Outfall #001</th>
<th>UNITS</th>
<th>DAILY MAXIMUM</th>
<th>WEEKLY AVERAGE</th>
<th>MONTHLY AVERAGE</th>
<th>MEASUREMENT FREQUENCY</th>
<th>SAMPLE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>MGD</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>once/quarter**</td>
<td>24 hr. estimate</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand₅</td>
<td>mg/L</td>
<td>65</td>
<td>45</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
<td>110</td>
<td>70</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
<tr>
<td>pH – Units</td>
<td>SU</td>
<td>***</td>
<td>***</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
<tr>
<td>Ammonia as N</td>
<td>mg/L</td>
<td>*</td>
<td>*</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
<tr>
<td>Temperature</td>
<td>°C</td>
<td>*</td>
<td>*</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
<tr>
<td>Fecal Coliform</td>
<td>#/100mL</td>
<td>*</td>
<td>*</td>
<td></td>
<td>once/quarter**</td>
<td>grab</td>
</tr>
</tbody>
</table>

Monitors shall be submitted annually; the first report is due April 28, 2009. There shall be no discharge of floating solids or visible foam in other than trace amounts.

### B. STANDARD CONDITIONS ###

In addition to specified conditions stated herein, this permit is subject to the attached Parts I & III Standard Conditions dated October 1, 1980 and August 15, 1994, and hereby incorporated as though fully set forth herein.
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 three (3) years from the effective date of this permit 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 PARAMETER(S)</th>
<th>UNITS</th>
<th>FINAL EFFLUENT LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DAILY MAXIMUM</td>
<td>WEEKLY AVERAGE</td>
</tr>
<tr>
<td>Flow</td>
<td>MGD</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand₃</td>
<td>mg/L</td>
<td>65</td>
<td>45</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
<td>110</td>
<td>70</td>
</tr>
<tr>
<td>pH – Units</td>
<td>SU</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Ammonia as N</td>
<td>mg/L</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Temperature</td>
<td>°C</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Fecal Coliform (Note 1)</td>
<td>#/100mL (note 2)</td>
<td>1000</td>
<td>400</td>
</tr>
</tbody>
</table>

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2012. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I & III STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.
** Sample once per quarter in the months that discharge occurs (see table below)

<table>
<thead>
<tr>
<th>Sample discharge at least once for the months of:</th>
<th>Report is due:</th>
</tr>
</thead>
<tbody>
<tr>
<td>January, February, March (1st Quarter)</td>
<td>April 28</td>
</tr>
<tr>
<td>April, May, June (2nd Quarter)</td>
<td>July 28</td>
</tr>
<tr>
<td>July, August, September (3rd Quarter)</td>
<td>October 28</td>
</tr>
<tr>
<td>October, November, December (4th Quarter)</td>
<td>January 28</td>
</tr>
</tbody>
</table>

*** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.

Note 1 - Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.

Note 2 - The Monthly Average Limit for Fecal coliform is expressed as a geometric mean.
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 area-wide wastewater treatment system within 90 days of notice of its availability.

4. Changes in Discharges of Toxic Substances
   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.

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

6. Water Quality Standards
   (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.
C. SPECIAL CONDITIONS (continued)

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.

D. SCHEDULE OF COMPLIANCE

1. This permit contains interim effluent limitations which are applicable for three (3) years following issuance of this permit. The final limits shall apply thereafter.

2. After one year of monitoring events following the issuance of this permit (which would be December 18, 2009), determine, by analyzing effluent data, if the wastewater treatment facility could comply with the final effluent limitations for Fecal Coliform bacteria. During the first year of monitoring a minimum of 12 months of monitoring data is required. In the case that the lagoon will not discharge once per month, additional samples should be taken when the lagoon is discharging.

3. If the final Fecal Coliform bacteria limits could not be complied with, submit, within twelve (12) months after the end of the first year of monitoring events (or twenty four \{24\} months after the issuance of this permit) (no later than December 18, 2010), a completed application for a construction permit, and one copy each of an engineering report, plans and specifications prepared by a professional engineer registered in the State of Missouri. Send the prepared submittal to the Missouri Department of Natural Resources, Kansas City Regional Office, 500 Northeast Colbern Road, Lee’s Summit, MO 64086. This submittal shall include wastewater treatment facility improvements to comply with the final effluent limits for Fecal Coliform bacteria as listed in Section A. of this permit, designed in accordance with the Missouri Clean Water Law Regulation 10 CSR 20 Chapter 8.

4. Within fifteen (15) calendar days of receipt of any request for additional information or changes in the engineering report, plans or specifications, respond and if necessary submit engineering modifications to the department’s address as shown in Paragraph D.3 above.

5. Within six (6) months of the issuance of the construction permit, construct the permitted wastewater treatment facility improvements.

6. Within fifteen (15) calendar days of completion of construction of wastewater treatment facility improvements, submit a Statement of Work Completed form, signed, sealed, and dated by a professional engineer registered in the State of Missouri certifying that the project has been completed substantially in accordance with the approved plans and specifications. In addition to the Statement of Work Completed, submit an application for a Missouri State Operating Permit modification, complete with the appropriate modification fee, to the department’s address shown in Paragraph D.1 above.
PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an “Application for Transfer of Operating Permit” signed by the seller and buyer of the facility, along with the appropriate modification fee.

PERMIT RENEWAL REQUIREMENTS

Unless this permit is terminated, the permittee shall submit an application for the renewal of this permit no later than six (6) months prior to the permit’s expiration date. Failure to apply for renewal may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.

TERMINATION

In order to terminate this permit, the permittee shall notify the department by submitting Form J, included with the State Operating Permit. The permittee shall complete Form J and mail it to the department at the address noted in the cover letter of this permit. Proper closure of any storage structure is required prior to permit termination. A closure plan shall be submitted to the department and approved prior to initiating closure activities.

DUTY OF COMPLIANCE

The permittee shall comply with all conditions of this permit. Any noncompliance with this permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal.
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). This Statement includes Wasteload Allocations, Water Quality Based Effluent Limitations, and Reasonable Potential Analysis calculations as well as any other calculations that effect the effluent limitations of this operating permit. This Statement does not pertain to operating permits that include sewage sludge land application plans and variance procedures, and does not include the public comment process for this operating permit.

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

**Part I – Facility Information**

Facility Type: Mobile Home Park
Facility SIC Code(s): 6515

Facility Description:
Single Cell Lagoon/sludge is retained in lagoon.

<table>
<thead>
<tr>
<th>OUTFALL(S) Table:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTFALL</td>
</tr>
<tr>
<td>#001</td>
</tr>
</tbody>
</table>

Water Quality History:
Receiving stream impacted by sedimentation due to agricultural non-point sources.

Comments:
Notice of Violation issued in 2004 for failure to submit discharge monitoring reports (DMR).
Only one DMR has been received in the previous permit cycle.

**Part II – Operator Certification Requirements**

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.010(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Not Applicable ☒: This facility is not required to have a certified operator, however it currently retains the services of the following operator:

Operator’s Name: David Arl
Certification Number: 5104
Certification Level: DS-III
Part III – Receiving Stream Information

**APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:**
As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category list effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]:
- Lake or Reservoir [10 CSR 20-7.015(3)]:
- Losing [10 CSR 20-7.015(4)]:
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]:
- Special Stream [10 CSR 20-7.015(6)]:
- Subsurface Water [10 CSR 20-7.015(7)]:
- All Other Waters [10 CSR 20-7.015(8)]:

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of “water uses to be maintained and the criteria to protect those uses.” The receiving stream and/or 1st classified receiving stream’s beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

**RECEIVING STREAM(S) TABLE:**

<table>
<thead>
<tr>
<th>WATERBODY NAME</th>
<th>CLASS</th>
<th>WBID</th>
<th>DESIGNATED USES*</th>
<th>8-DIGIT HUC</th>
<th>EDU**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tributary to Shaver Creek</td>
<td>U</td>
<td>N/A</td>
<td>General Criteria</td>
<td></td>
<td>Central Plains/Blackwater/Lamine</td>
</tr>
<tr>
<td>Tributary to Shaver Creek</td>
<td>C</td>
<td>03506</td>
<td>LWW, AQL, WBC-B***</td>
<td>10300103</td>
<td></td>
</tr>
</tbody>
</table>

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery (CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
** - Ecological Drainage Unit
*** - UAA has not been conducted.

**RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:**

<table>
<thead>
<tr>
<th>RECEIVING STREAM (U, C, P)</th>
<th>LOW-FLOW VALUES (CFS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1Q10</td>
</tr>
<tr>
<td>Tributary to Shaver Creek (C)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**MIXING CONSIDERATIONS TABLE:**

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].
Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

**ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**
As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ☒:
The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.
**ANTI-BACKSLIDING:**
A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

☑️ All limits in this statement are at least as protective as those previously established; therefore, backsliding does not apply.

**ANTIDEGRADATION:**
In accordance with Missouri’s Water Quality Standard [10 CSR 20-7.031(2)], the department is to document by means of Antidegradation Review that the use of a water body’s available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

☑️ Renewal no degradation proposed and no further review necessary.

**APPLICABLE PERMIT PARAMETERS:**
Effluent parameters for conventional, non-conventional, and toxic pollutants have been obtained from the previous NPDES operating permit for this facility, technology based effluent limits, water quality based effluent limits, and from appropriate sections of the renewal application.

**COMPLIANCE AND ENFORCEMENT:**
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ☑️:
The permittee/facility is not currently under Water Protection Program enforcement action.

**PRETREATMENT PROGRAM:**
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Not Applicable ☑️:
The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

**REASONABLE POTENTIAL ANALYSIS (RPA):**
Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

Not Applicable ☑️:
A RPA was not conducted for this facility.
**Removal Efficiency:**
Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD$_5$) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. Please see the United States Environmental Protection Agency’s (EPA) website for interpretation of percent removal requirements for National Pollutant Discharge Elimination System Permit Application Requirements for Publicly Owned Treatment Works and Other Treatment Works Treating Domestic Sewage @ www.epa.gov/fedrgstr/EPA-WATER/1999/August/Day-04/w18866.htm

Not Applicable ☒;
This wastewater treatment facility is not a POTW. Influent monitoring is not being required to determine percent removal.

**Sanitary Sewer Overflows (SSOs), and Inflow & Infiltration (I&I):**
Collection systems are a critical element in the successful performance of the wastewater treatment process. Under certain conditions, poorly designed, built, managed, operated, and/or maintained systems can pose risks to public health, the environment, or both. Causes of SSOs include, but are not limited to, the following: high levels of I&I during wet weather; blockages; structural, mechanical, or electrical failures; collapsed or broken sewer pipes; insufficient conveyance capacity; and vandalism. Effective and continuous management, operation, and maintenance, as well as ensuring adequate capacity and rehabilitation when necessary are critical to maintaining collection system capacity and performance while extending the life of the system.

Not Applicable ☒;
This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

**Schedule of Compliance (SOC):**
A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Applicable ☑;
The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations where established in accordance with [10 CSR 20-7.031(10)].

**Storm Water Pollution Prevention Plan (SWPPP):**
A plan to schedule activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. The plan may include, but is not limited to, treatment requirements, operating procedures, and practices to control facility site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Not Applicable ☒;
At this time, the permittee is not required to develop and implement a SWPPP.

**Wasteload Allocations (WLA) for Limits:**
As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the department to release into a given stream after the department has determined to total amount of pollutant that may be discharged into that stream without endangering its water quality.

Not Applicable ☒;
Wasteload allocations were not calculated.

**WLA Modeling:**
Not Applicable ☒;
A WLA study was either not submitted or determined not applicable by department staff.
**Whole Effluent Toxicity (WET) Test:**
A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Not Applicable ☒;
At this time, the permittee is not required to conduct WET test for this facility.

**303(d) List & Total Maximum Daily Load (TMDL):**
Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ☒;
This facility does not discharge to a 303(d) listed stream.

**Part V – Effluent Limits Determination**

**Outfall #001 – Main Facility Outfall**

**Effluent Limitations Table:**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>UNIT</th>
<th>BASIS FOR LIMITS</th>
<th>DAILY MAXIMUM</th>
<th>WEEKLY AVERAGE</th>
<th>MONTHLY AVERAGE</th>
<th>MODIFIED</th>
<th>PREVIOUS PERMIT LIMITATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLOW</td>
<td>GPD</td>
<td>1</td>
<td>*</td>
<td>*</td>
<td>NO</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>BOD₅</td>
<td>mg/L</td>
<td>1/4</td>
<td>65</td>
<td>45</td>
<td>NO</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>TSS</td>
<td>mg/L</td>
<td>1/4</td>
<td>110</td>
<td>70</td>
<td>NO</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>pH (S.U.)</td>
<td>SU</td>
<td>1/4</td>
<td>≥6.0</td>
<td>≥6.0</td>
<td>NO</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>TEMPERATURE (°C)</td>
<td>°C</td>
<td>5</td>
<td>*</td>
<td>*</td>
<td>YES</td>
<td>****</td>
<td></td>
</tr>
<tr>
<td>AMMONIA AS N</td>
<td>mg/L</td>
<td>5</td>
<td>*</td>
<td>*</td>
<td>YES</td>
<td>****</td>
<td></td>
</tr>
<tr>
<td>ESCHERICHIA COLI</td>
<td>**</td>
<td>1</td>
<td>Please see Escherichia Coli (E. coli) in the Derivation and Discussion Section below.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FECAL COLIFORM</td>
<td>***</td>
<td>1/2</td>
<td>1000</td>
<td>400</td>
<td>YES</td>
<td>****</td>
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</tbody>
</table>

* - Monitoring requirement only
*** - # of colonies/100mL; the Monthly Average for Fecal Coliform is a geometric mean.
**** - Parameter not previously established in previous state operating permit.
N/A – Not applicable
S – Same as previous operating permit

Basis for Limitations Codes:
1. State or Federal Regulation/Law
2. Water Quality Standard (includes RPA)
3. Water Quality Based Effluent Limits
4. Lagoon Policy
5. Ammonia Policy
6. Dissolved Oxygen Policy
7. Antidegradation Policy
8. Water Quality Model
9. Best Professional Judgement
10. TMDL or Permit in lieu of TMDL
11. WET test Policy
OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the department, which may require the submittal of an operating permit modification.

- **Biochemical Oxygen Demand (BOD$_5$).** Effluent limitations have been retained from previous state operating permit, please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Receiving Stream Information.

- **Total Suspended Solids (TSS).** Effluent limitations have been retained from previous state operating permit, please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Receiving Stream Information.

- **pH.** Effluent limitations have been retained from previous state operating permit, please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Receiving Stream Information.

- **Temperature.** Monitoring requirement due to the toxicity of Ammonia varies by temperature.

- **Total Ammonia Nitrogen.** Monitoring requirement only. Data will be used at the next permit renewal to determine if this facility has a reasonable potential to violate water quality standards for ammonia.

- **Escherichia coli (E. coli).** This facility may be required to have *E. coli* effluent limitations when Missouri adopts the implementation of the *E. coli* standards, as per [10 CSR 20-7.031(4)(A)].

- **Fecal Coliform.** Discharge shall not contain more than a monthly geometric mean of 400 colonies/100 mL and a daily maximum of 1000 colonies/100 mL during the recreational season (April 1 – October 31), please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Receiving Stream Information. Future renewals of the facility operating permit will contain effluent limitations for *E. coli*, which will replace fecal coliform as the applicable bacteria criteria in Missouri’s water quality standards.

- **Minimum Sampling and Reporting Frequency Requirements.**

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>SAMPLING FREQUENCY</th>
<th>REPORTING FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>ONCE/QUARTER</td>
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<tr>
<td>BOD$_5$</td>
<td>ONCE/QUARTER</td>
<td>ONCE/QUARTER</td>
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<tr>
<td>TSS</td>
<td>ONCE/QUARTER</td>
<td>ONCE/QUARTER</td>
</tr>
<tr>
<td>pH (S.U.)</td>
<td>ONCE/QUARTER</td>
<td>ONCE/QUARTER</td>
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<td>Temperature (°C)</td>
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<tr>
<td>Ammonia as N</td>
<td>ONCE/QUARTER</td>
<td>ONCE/QUARTER</td>
</tr>
<tr>
<td>Fecal Coliform (Note 1)</td>
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<td>ONCE/QUARTER</td>
</tr>
</tbody>
</table>

**Part VI – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

**Date of Factsheet:** 09/16/2008

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