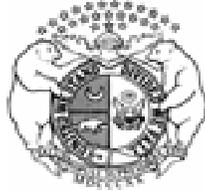


STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

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, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0086037

Owner: Burks Properties L.L.C.  
Address: 1151 E. High Point Lane, Columbia, MO 65203

Continuing Authority: Same as above  
Address: Same as above

Facility Name: Green Hills Mobile Home Park  
Facility Address: 7601 N. Hwy VV, #101, Columbia, MO 65202

Legal Description: SE ¼, SE ¼, Sec. 11, T49N, R13W, Boone County  
Latitude/Longitude: +3902234/-09220337

Receiving Stream: Unnamed tributary to Rocky Fork (U)  
First Classified Stream and ID: Rocky Fork (C) (01014) 303(d)  
USGS Basin & Sub-watershed No.: (10300102-110005)

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 # 6515/4952

Single-cell lagoon / surface aerator / sludge is retained in the lagoon.

Design population equivalent is 180.

Design flow is 12,400 gallons per day.

Actual flow is 15,660 gallons per day. (Actual flow greater than design; based on discharge monitoring reports since January 2003.)

Design sludge production is 2.7 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.

March 16, 2007

Effective Date

Handwritten signature of Doyle Childers in black ink.

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

March 15, 2012

Expiration Date  
MO 780-0041 (10-93)

Irene Crawford, Director, Northeast Regional Office

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>	PAGE NUMBER 2 of 5
	PERMIT NUMBER MO-0086037

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 four (4) years and 364-days from the issuance of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ***	mg/L		65	45	once/month	grab
Total Suspended Solids***	mg/L		120	80	once/month	grab
pH – Units	SU	**		**	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab
Fecal Coliform (Note 1 & 2)	#/100mL	*		*	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE April 28, 2007. 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.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* 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.
- \*\*\* This facility is required to meet a removal efficiency of 65% or more.

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 a geometric mean

<b>A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS</b>	PAGE NUMBER 3 of 5
	PERMIT NUMBER MO-0086037

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 one (1) day before the date of expiration 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:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ***	mg/L		65	45	once/month	grab
Total Suspended Solids***	mg/L		120	80	once/month	grab
pH – Units	SU	**		**	once/month	grab
Ammonia as N	mg/L	*		*	once/month	grab
Temperature	°C	*		*	once/month	grab
Fecal Coliform (Note 1 & 2)	#/100mL	1000		400	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; 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.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- \* Monitoring requirement only.
- \*\* 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.
- \*\*\* This facility is required to meet a removal efficiency of 65% or more.

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 a geometric mean

<b>C. INFLUENT MONITORING REQUIREMENTS</b>		PAGE NUMBER 4 of 5	
		PERMIT NUMBER MO-0086037	
The facility is required to meet a removal efficiency of 65% or more. The monitoring requirements shall become effective upon issuance and remain in effect until expiration of the permit. To determine removal efficiencies, the influent wastewater shall be monitored by the permittee as specified below:			
SAMPLING LOCATION AND PARAMETER(S)	UNITS	MONITORING REQUIREMENTS	
		MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Influent</u>			
Biochemical Oxygen Demand <sub>5</sub>	mg/L	once/quarter****	grab
Total Suspended Solids	mg/L	once/quarter****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2007</u> .			

MO 780-0010 (8/91)

\*\*\*\* Sample once per quarter in the months of March, June, September, and December.

#### D. 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.

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.

8. The permittee shall comply with any applicable requirements listed in 10 CSR 20-8 and 10 CSR 20-9. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.

E. SCHEDULE OF COMPLIANCE

1. The final daily maximum and monthly average Fecal Coliform limits of 400/100ml and 1000/100ml, respectively, shall become effective one day prior to the expiration date of the permit or December 31, 2013, whichever comes first unless items (b) or (c) below are approved by the Department. The Effluent Regulation, 10 CSR 20 – 7.015(9)(H), allows the permittee up to five years from the issuance date of this permit to:
  - (a) Install disinfection facilities, or;
  - (b) Present an evaluation to show that disinfection is not required to protect one or both recreational uses, or;
  - (c) Present a Use Attainability Analysis (UAA) that demonstrates one or both designated recreational uses are not attainable in the classified waters receiving the effluent.
2. If chlorination is the chosen method of disinfection, a Total Residual Chlorine limit will be added to the permit.
3. Permittee shall submit an engineering report by **September 17, 2007** that evaluates the ability of the facility to adequately treat the flows entering the facility and to determine if either facility upgrades or flow mitigation are necessary in order to ensure general water quality criteria are not violated.

Date of Fact Sheet: December 6, 2006  
Date of Public Notice: January 12, 2007

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT  
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0086037  
FACILITY NAME: Green Hills Mobile Home Park  
OWNER NAME: Mr. Charles "Fred" Burks  
CONTINUING AUTHORITY NAME: Same as above  
LOCATION: 7601 N. Hwy WW, #101, Columbia, MO 65202  
Sec. 11 T49N R13W County: Boone  
RECEIVING STREAM: Unnamed tributary to Rocky Fork (U)  
FACILITY CONTACT PERSON: Mr. Charles "Fred" Burks TELEPHONE: (573) 449-2816

FACILITY DESCRIPTION

This facility is a one-cell, facultative lagoon with a surface aerator. The sludge is retained in the lagoon. The design flow is 12,400 gallons per day, and the actual flow is approximately 15,660 gallons per day (based on an average of values from the submitted discharge monitoring reports since January 2003).

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Permits in Missouri are issued by the Director of the Department of Natural Resources under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended).

10 CSR 20-7.031 Missouri Water Quality Standards, Missouri Department of Natural Resources (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 classified receiving stream's beneficial water uses to be maintained are livestock and wildlife watering, protection of aquatic life, and whole body contact recreation category B.

To protect these beneficial uses and the water quality of the receiving stream, effluent limitations are being established under federal and state laws.

EFFLUENT LIMIT DERIVATION & RATIONALE

A Water Quality Review Sheet was not developed at this time. The effluent limitations from previous state operating permit were retained as per the Missouri Department of Natural Resources' Lagoon Operating Permit Renewal Guidance, signed April 28, 2006.

Monitoring for ammonia and temperature has been added due to the adoption of the U. S. Environmental Protection Agency's "1999 Update of Ambient Water Quality Criteria for Ammonia", and to determine whether "reasonable potential" to exceed water quality standards exists after the discharge begins.

A schedule of compliance has been added for fecal coliform pursuant to Missouri Code of State Regulations 10 CSR 20-7.015(8)(B)4 and 10 CSR 20-7.015(9)(H). Monitoring only is required for the first four (4) years and 354 days of the permit. After this period, fecal coliform shall be limited as stated in the permit. If chlorination is the chosen method of disinfection, a Total Residual Chlorine limit will be added to the permit.

Green Hills Mobile Home Park FACT SHEET

January 12, 2007

Page 2

This facility discharges approximately two (2) miles upstream of a classified stream segment designated for whole body contact recreation, category B. A schedule of compliance has been added for fecal coliform pursuant to Missouri Code of State Regulations 10 CSR 20-7.015(8)(B)4 and 10 CSR 20-7.015(9)(H). Monitoring only is required during the recreational season (April 1 – October 31) for the first four (4) years and 354 days of the permit. After this period, fecal coliform shall be limited as stated in the permit. If chlorination is the chosen method of disinfection, a Total Residual Chlorine limit will be added to the permit.

An engineering study requirement has been placed in the schedule of compliance due to past violations of general criteria, effluent discharge violations, and a high average daily flow rate.

The permit contains a “reopener” clause as a protection in case the data generated by this permit or other monitoring data indicate that state water quality standards are being exceeded due at least in part to this discharge.

A Total Maximum Daily Load (TMDL) for sediment was approved for Rocky Fork on December 19, 2003. No impact from sediment to the impaired stream segment is expected.

This permit will be issued for a period of five years.



**Missouri Department of Natural Resources**  
**Water Protection Program**  
**Water Pollution Control Branch**  
 NPDES Permits and Engineering Section

## Water Quality Review Sheet Check List

### Lagoon Operating Permit Renewal

#### Facility Information

FACILITY NAME: Green Hills Mobile Home Park PERMIT #: MO-0086037  
 FACILITY TYPE: Domestic one-cell lagoon, primary aerated, sludge retained AGE: > 21 years

#### Outfall Characteristics

OUTFALL	DESIGN FLOW (MGD)	ACTUAL FLOW (MGD)	ACTUAL FLOW/DESIGN FLOW
001	12,400	15,660	126 %

#### Effluent Characteristics

Biochemical Oxygen Demand (BOD<sub>5</sub>) In Compliance  Significant Noncompliance  No info   
 Total Suspended Solids (TSS) In Compliance  Significant Noncompliance  No info   
 Percent Removal (>65%) BOD & TSS In Compliance  Significant Noncompliance  No info

Effluent Limit/Monitoring Requirement Frequency at regulatory minimum: Yes  No

#### Receiving Waterbody Information

WATERBODY NAME: Unnamed tributary to Rocky Fork CLASS: U  
 WATERBODY NAME: Rocky Fork CLASS: C

Discharge to or within two (2) miles of a losing stream (10 CSR 20-7.031, Table J or as determined by GSRAD) Yes  No

Discharge to or within two (2) miles of a classified waterbody designated for whole body contact recreation Yes  No

Use Attainability Analysis Conducted Yes  No  (if yes, result was to Retain)

Stream Survey Conducted within the past five (5) years  Observed water quality impacts

If the facility discharges to any of the waterbody types below, is within an area experiencing rapid development, or if a site-specific water quality impact study has been conducted, this form is not applicable.

Lake/Reservoir Yes  No  303(d) Waterbody Yes  No

Metropolitan No-Discharge Stream Yes  No

Outstanding National/State Resource Water and Drainages Thereto Yes  No