

WPC - Camden  
Big Island  
Big Island West Sewer  
ID NO 2174

STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES

Mel Carnahan, Governor • Stephen M. Mahfouz, Director

DIVISION OF ENVIRONMENTAL QUALITY

Jefferson City Regional Office

210 Hoover Road P.O. Box 176 Jefferson City, MO 65102-0176

(573)751-2729

FAX (573)751-0014

March 3, 2000

FILED<sup>2</sup>

APR 02 2000

Big Island Home Owners Assoc.  
ATTN: David Lees  
HCR 67 Box 680  
Roach, MO 65787

Missouri Public  
Service Commission

Dear Mr. Lees:

The Department of Natural Resources (DNR) has reviewed your submittal for a construction permit for Big Island West sewer extension. Our review indicates the following concern/deficiency in the submittal.

Treatment facility must be shown to be adequate to treat the additional loading from the sewer extension in accordance with 10 CSR 20-6.010(4)(D)5. The treatment plant is designed to serve 80 lots and with the proposed sewer extension there is 119 lots that will connect to the treatment plant. Therefore, the project should be expanded to include the expansion of the treatment plant.

Your response concerning the above should be sent before April 7, 2000.

An extension of the time for response may be requested by letter to me at Jefferson City Regional Office, P.O. Box 176, Jefferson City, MO 65102. The request must identify why you cannot respond within the established time frame and must include a proposed date for response. Extensions will only be granted when the request is reasonable and it is received within thirty (30) days of receipt of this letter.

Failure to respond may result in the application being returned and, if applicable, forfeiture of the filing fee. If you have any questions, please contact me at (573) 751-2729.

Sincerely,

JEFFERSON CITY REGIONAL OFFICE

*Keith B. Forck*

Keith B. Forck, P.E.  
Environmental Engineer

KBF:cr

c: Water Pollution Control Program  
Lake Professional Engineering Services, Inc.

Fulson  
ALC  
Exhibit No. *84*  
Case No(s) WC-2000-0082  
Date 3-2-00 Rptr. 0217  
*PF*

STATE OF MISSOURI  
**DEPARTMENT OF NATURAL RESOURCES**

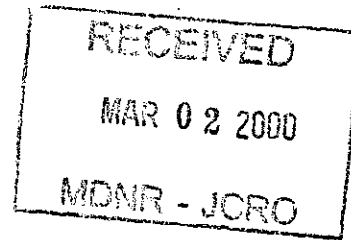
Mel Carnahan, Governor • Stephen M. Mahood, Director

DIVISION OF ENVIRONMENTAL QUALITY

P.O. Box 176 Jefferson City, MO 65102-0176

February 25, 2000

Big Island Homeowners Association, Inc.  
PO Box 328  
Longmont, CO 80501



Dear Permittee:

Pursuant to the Federal Water Pollution Control Act, under the authority granted to the State of Missouri and in compliance with the Missouri Clean Water Law, we have issued and are enclosing your State Operating Permit to discharge from Big Island.

Please read your permit and attached Standard Conditions. They contain important information on monitoring requirements, effluent limitations, sampling frequencies and reporting requirements.

Monitoring reports required by the special conditions must be submitted on a periodic basis. Copies of the necessary report forms are enclosed and should be mailed to the regional office listed below. Please contact that office for additional forms.

This permit is both your Federal Discharge Permit and your new State Operating Permit and replaces all previous State Operating Permits for this facility. In all future correspondence regarding this facility, please refer to your State Operating Permit number and facility name as shown on page one of the permit.

If you have any questions concerning this permit, please do not hesitate to call this office or our Jefferson City Regional Office at 219 Hoover Dr, Jefferson City, MO 65102-0176 (573) 751-2729.

Sincerely

WATER POLLUTION CONTROL

A handwritten signature in cursive script, appearing to read "Philip A. Schroeder".

Philip A. Schroeder, Chief  
Permit Section

PAS:ah

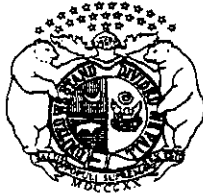
Enclosure

c: Jefferson City Regional Office  
Big Island

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-0123013

Owner: Big Island Homeowners Association, Inc.  
 Owner's Address: ~~PO Box 54~~  
 HCR 57, Box 680, Roach, MO 65787

Operating Authority: Same as above

Operating Authority's Address: Same as above

Facility Name: Big Island Subdivision

Facility Address: Lake Road AA-109, Roach, MO 65787

Legal Description: NW ¼, NW ¼, SW ¼, Sec. 6, T38N, R17W, Camden County

Receiving Stream & Basin: Little Niangua Arm (L2)  
 Lake of the Ozarks Basin (10290110-03-00)

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 - Subdivision - SIC #4952  
 Septic tank/recirculating sand filter/chlorination/sludge disposal is by contract hauler.  
 Design population equivalent is 296.  
 Design flow is 22,525 gallons per day.  
 Design sludge production is 2.1 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

February 25, 2000  
 Issuance Date

February 24, 2005  
 Expiration Date

*John A. Young*  
 John A. Young  
 Director, Division of Environmental Quality

*[Signature]*  
 Director of Staff, Clean Water Commission

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

PERMIT NUMBER MO-0123013

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:

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/quarter**	24 hr. estimate
Biochemical Oxygen Demand <sub>5</sub> ***	mg/L		30	20	once/quarter**	grab
Total Suspended Solids***	mg/L		30	20	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
Fecal Coliform (Note 1)	#/100mL	1000		400	once/quarter*****	grab
Total Residual Chlorine (Note 2)	mg/L	1.0		1.0	once/quarter*****	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE July 28, 2000. 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.
- \*\* Sample once per quarter in the months of January, April, July, and October.
- \*\*\* This facility is required to meet a removal efficiency of 85% or more.
- \*\*\*\* pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- \*\*\*\*\* Once per quarter in the months of April, July, and October.

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

- a. If the TRC limit in this permit is 0.01 mg/L or 0.2 mg/L, you must use an analytical method that has a quantification limit of no greater than 0.05 mg/L TRC. For reporting purposes on the discharge monitoring report (DMR), all analytical values below 0.05 mg/L shall be reported as "<quantlim." All analytical values at or above the quantification limit of 0.05 mg/L shall be reported as the measured value. The permittee shall report the quantification limit in the remarks section of the DMR.

The average monthly effluent values for TRC will be determined by assuming that analytical results below the quantification limit are equivalent to 0 mg/L when calculating the monthly average.

The daily effluent value will be considered equal to 0 mg/L if it is below the quantification limit.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- b. If the TRC limit in this permit is 1.0 mg/L; you must use an analytical method with a quantification limit between 0.2 and 0.5 mg/L. All analytical values below the quantification limit shall be reported as "<quantlim." All analytical values at or above the quantification limit shall be reported as the measured value.

The average monthly effluent values for TRC will be determined by assuming that analytical results below the quantification limit are equivalent to 0 mg/L when calculating the monthly average.

The daily effluent value will be considered equal to 0 mg/L if it is below the quantification limit.

- c. 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.
- d. Do not chemically dechlorinate if it is not required in your permit.
- e. 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 modified, or alternatively revoked and reissued, to 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:

- (a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or  
(b) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the 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.
4. This permit may be reopened and modified or alternatively revoked and reissued, to incorporate new or modified effluent limitations or other conditions, if the result of a wasteload allocation study, toxicity test, or other information indicates changes are necessary to ensure compliance with Missouri's Water Quality Standards.

C. SPECIAL CONDITIONS (continued)

5. 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 ug/L);
  - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/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.

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

7. General Criteria. The following 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:

- (a) 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;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) 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.

8. 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.

February 25, 2000

RECEIVED  
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MDNR-JCRO

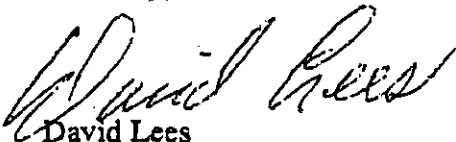
State of Missouri  
Department of Natural Resources  
P. O. Box 176  
Jefferson City, MO 65102-0176

Dear Sirs,

This letter is to confirm our commitment regarding the Big Island Subdivision sewer treatment plant outside of Camdenton at the Lake of the Ozarks. We understand that prior to connecting the 81<sup>st</sup> tap to the system we will need to construct at least one additional sand filter bed. We anticipate starting the application procedure for the additional sand filter bed after the 70<sup>th</sup> tap is connected and in service.

If you have any other questions, please don't hesitate to call.

Sincerely,



David Lees  
Big Island Homeowners Association  
President

*To Keith Fortke*