STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

Bonacker Farms, Inc.
4211 State Highway W
House Springs, MO 63051

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the Department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the Department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the Department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

April 15, 2021
Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

April 14, 2023
Expiration Date

Chris Wieberg, Director, Water Protection Program
CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Bonacker Farms, Inc. proposes to construct a storage basin to store domestic septage and biosolids when land application is not permitted due to ground conditions and to resolve compliance issues. The storage basin will have a storage capacity of approximately 923,000 gallons from the bottom of the basin to the emergency spillway. The depth from the top of the berms to the basin floor will be 7 ft. The basin is non-aerated, 186 ft by 186 ft with a surface area of 34,596 ft². Using a design average flow of 2,000 gpd, the proposed storage basin that provides approximately 195 days of retention.

This basin will be used in conjunction with the other storage basins onsite. Land application of the septage and biosolids from this basin is expected to occur on the 163 acres and will be injected 6 inches below the surface.

This project will also include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make a complete and usable wastewater treatment facility.

II. COST ANALYSIS FOR COMPLIANCE

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a “finding of affordability” on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

The Department is not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publicly-owned treatment works.

III. CONSTRUCTION PERMIT CONDITIONS

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be consistent with plans and specifications signed and sealed by Ganey Engineering and as described in this permit.

3. The Department must be contacted in writing prior to making any changes to the plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).

4. State and federal law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the Department’s St. Louis Regional Office per 10 CSR 20-7.015(9)(G).

5. The wastewater treatment facility shall be located at least 200 ft to residence and 50 ft to property line residence per 10 CSR 20-8.140(C)(2)

6. The wastewater treatment facility shall be located above the twenty-five (25)-year flood level.

7. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.

8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the Department’s ePermitting system available online at dnr.mo.gov/env/wpp/epermit/help.htm. See dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.

9. A United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Department of the Army permit and a Section 401 Water Quality Certification issued by the Department may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied or notification is provided that no Section 404 permit is required by the USACE. You must contact your local USACE district since they determine what waters are jurisdictional and which permitting requirements may apply. You may call the Department’s Water Protection Program, Operating Permits Section at 573-522-4502 for more information. See dnr.mo.gov/env/wpp/401/ for more information.

10. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
   - Flood protection shall apply to new construction and to existing facilities undergoing major modification. The wastewater facility structures, electrical
equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation. 10 CSR 20-8.140 (2) (B)

- Unless another distance is determined by the Missouri Geological Survey or by the department’s Public Drinking Water Branch, the minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300'). 10 CSR 20-8.140 (2) (C) 1.

- No treatment unit with a capacity of twenty-two thousand five hundred gallons per day (22,500 gpd) or less shall be located closer than the minimum distance of 200' to a neighboring residence and 50' to property line for lagoons. See 10 CSR 20-2.010(68) for the definition of a residence. 10 CSR 20-8.140 (2) (C) 2

- Facilities shall be readily accessible by authorized personnel from a public right–of–way at all times. 10 CSR 20-8.140 (2) (D)

- All sampling points shall be designed so that a representative and discrete twenty-four (24) hour automatic composite sample or grab sample of the effluent discharge can be obtained at a point after the final treatment process and before discharge to or mixing with the receiving waters. 10 CSR 20-8.140 (6) (B)

- All outfalls shall be posted with a permanent sign indicating the outfall number (i.e., Outfall #001). 10 CSR 20-8.140 (6) (C)

- An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140 (7) (C)

- A means of flow measurement shall be provided at all wastewater treatment facilities. 10 CSR 20-8.140 (7) (E)

- Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. The following shall be provided to fulfill the particular needs of each wastewater treatment facility:
  - Fencing. Enclose the facility site with a fence designed to discourage the entrance of unauthorized persons and animals; 10 CSR 20-8.140 (8) (A)
  - Gratings over appropriate areas of treatment units where access for maintenance is necessary; 10 CSR 20-8.140 (8) (B)
  - First aid equipment; 10 CSR 20-8.140 (8) (C)
  - Posted “No Smoking” signs in hazardous areas; 10 CSR 20-8.140 (8) (D)
  - Appropriate personal protective equipment (PPE); 10 CSR 20-8.140 (8) (E)
  - Portable blower and hose sufficient to ventilate accessed confined spaces; 10 CSR 20-8.140 (8) (F)
  - Appropriately-placed warning signs for slippery areas, non-potable water fixtures (see subparagraph (7)(D)3.B. of this rule), low head clearance areas, open service manholes, hazardous chemical storage areas, flammable fuel storage areas, high noise areas, etc.; 10 CSR 20-8.140 (8) (I)

- Dust collection equipment shall be provided to protect facility personnel from dusts injurious to the lungs or skin and to prevent polymer dust from settling on walkways that become slick when wet. 10 CSR 20-8.140 (9) (A) 6.

- No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140 (7) (D) 1.
• The minimum berm width shall be eight feet (8') to permit access of maintenance vehicles. 10 CSR 20-8.200 (4) (A) 2.
• Minimum freeboard shall be two feet (2'). 10 CSR 20-8.200 (4) (A) 3.
• An emergency spillway shall be provided that—
  o Prevents the overtopping and cutting of berms; 10 CSR 20-8.200(4)(A)4.A.
  o Is compacted and vegetated or otherwise constructed to prevent erosion; 10 CSR 20-8.200(4)(A)4.B. and
  o Has the ability for a representative sample to be collected, if discharging. 10 CSR 20-8.200(4)(A)4.C.
• The soil of the lagoon bottom shall be compacted with the moisture content between two percent (2%) below and four percent (4%) above the optimum water content and compacted to at least ninety-five percent (95%) maximum dry density test method. 10 CSR 20-8.200(4)(B)
• The lagoon shall be sealed to ensure that seepage loss is as low as possible and has a design permeability not exceeding 1.0 x 10^-7 cm/sec. 10 CSR 20-8.200(4)(C)1.
• The minimum thickness of the compacted clay liner must be twelve inches (12"). For permeability coefficients greater than 1.0 × 10^-7 cm/sec or for heads over five feet (5') such as an aerated lagoon system, the following formula shall be used to determine minimum seal thickness, Equation 200-1 per 10 CSR 20-8.200(4)(C)2.: Equation 200-1

\[
t = \frac{H \times K}{5.4 \times 10^{-7} \text{ cm/sec}}
\]

where:
K = the permeability coefficient of the soil in question;
H = the head of water in the lagoon; and
t = the thickness of the soil seal.
• The influent line(s) shall be located along the bottom of the lagoon so that the top of the pipe is just below the average elevation of the lagoon seal; however, there shall be an adequate seal below the pipe. 10 CSR 20-8.200 (4) (D) 3.
• The wetted application area of a surface irrigation system must be located
  o Outside of flood-prone areas having a flood frequency greater than once every ten (10) years; 10 CSR 20-8.200 (6) (B) 1.
  o At least one hundred fifty feet (150') from existing dwellings or public use areas, excluding roads or highways; 10 CSR 20-8.200 (6) (B) 2. A.
  o At least fifty feet (50') inside the property line; 10 CSR 20-8.200 (6) (B) 2. B.
  o At least three hundred feet (300') from any sinkhole, losing stream, or other structure or physiographic feature that may provide direct connection between the ground water table and the surface; 10 CSR 20-8.200 (6) (B) 2. C.
  o At least three hundred feet (300') from any existing potable water supply well not located on the property. Adequate protection shall be provided for wells located on the application site; 10 CSR 20-8.200 (6) (B) 2. D.
  o One hundred feet (100') to wetlands, ponds, gaining streams (classified or unclassified; perennial or intermittent); 10 CSR 20-8.200 (6) (B) 2. E. and
  o If an established vegetated buffer or the wastewater is disinfected, the setbacks established in subsections (A)–(E) above may be decreased if the applicant demonstrates the risk is mitigated. 10 CSR 20-8.200 (6) (B) 2. F.
• The wetted application area of a surface irrigation system must be fenced, or if not fenced, provide in the construction permit application or the facility plan, the—
  o Method of disinfection being utilized; 10 CSR 20-8.200 (6) (B) 3. A.
  o Suitable barriers in place, 10 CSR 20-8.200 (6) (B) 3. B. or
  o Details on how public access is limited and not expected to be present. 10 CSR 20-8.200 (6) (B) 3. C.
• At a minimum, treatment prior to irrigation shall provide performance equivalent to that obtained from a primary wastewater lagoon cell and include 90 days wastewater storage in addition to the primary volume. 10 CSR 20-8.200 (6) (C)
• The public shall not be allowed into an area when irrigation is being conducted; 10 CSR 20-8.200 (6) (F) 2.

11. The facility’s general operating permits will expire during the length of this construction permit. If construction is not complete, general permit renewal applications must be submitted
   A. MOG821123 and MOG821017 must be submitted by October 30, 2022; and
   B. MOG9200002 must be submitted by December 15, 2022.

12. Upon completion of construction:
   A. Bonacker Farms, Inc. will become the continuing authority for operation and maintenance of these facilities;
   B. Submit an electronic copy of the as built if the project was not constructed in accordance with previously submitted plans and specifications; and
   C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) with a request for the operating permit to be issued.

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

   Construction of the new storage basin is to help resolve ongoing enforcement case by providing the facility with additional basin for storage of biosolids and septage.

2. FACILITY DESCRIPTION

   Bonacker Farms, Inc. is located at 4211 State Highway W, House Springs, in Jefferson County, Missouri. Bonacker Farms has multiple operations, including the land application and storage of domestic septage removed from septic tanks or similar treatment works, biosolids from domestic wastewater treatment plants, plus the no-discharge composting operations. The facility is currently covered under 3 general permits, but is being combined into 1 site-specific operating permit. After construction and issuance of the new operating permit, the facility will be allowed to accept and
land apply biosolids from wastewater treatment facilities that meet Class B under 40 CFR 503. The facility is currently covered under MOG821123, MOG821017, and MOG920002. The site is approximately 777 acres with storage basins located in Areas 2 and 3 in the Appendix.

3. COMPLIANCE PARAMETERS

The facility will be covered under a site-specific permit following the completion of the new storage basin. The facility will have monitoring associated with the storage basins and with the land application sites. The limits following the completion of construction will be applicable to the facility:

<table>
<thead>
<tr>
<th>Effluent Parameters</th>
<th>Units</th>
<th>Monitoring Requirements</th>
<th>Daily Maximum</th>
<th>Measurement Frequency</th>
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* monitoring only

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Existing major components that will remain in use include the following:

- **Storage Basins**: Previously constructed storage basins have a minimum storage capacity of 75 days.
  - **PERMITTED FEATURE #001** - no-discharge operations with emergency bypass; composting operations; stormwater; storage basin; covered under MOG920002 as permitted feature #001
• PERMITTED FEATURE #002 – no-discharge operations with emergency bypass; composting operations; stormwater; storage basin; covered under MOG920002 as permitted feature #002

• PERMITTED FEATURE #003— no-discharge operations with emergency bypass; septage and biosolids holding storage basin covered under MOG821123 as permitted feature #003

• PERMITTED FEATURE #004— no-discharge operations with emergency bypass; septage and biosolids holding storage basin covered under MOG821123

• Land Application Sites:
  
  • PERMITTED FEATURE #006- Land application site, BMPs, established in MOG920002 as permitted feature #003,

  • PERMITTED FEATURE #007- land application site; BMPs; land application (sludge); lime stabilization; established in MOG821017

  • PERMITTED FEATURE #008- land application site; BMPs; land application (sludge); lime stabilization; established in MOG821123 as permitted feature #001

  • PERMITTED FEATURE #009- land application site; BMPs; land application (sludge); lime stabilization; established in MOG821123 as permitted feature #002;

Construction will cover the following items:

• Storage Basin (Permitted Feature #005) – Storage basin will be constructed and sealed with a minimum 1 ft thick clay liner.
  
  • The basin will have 3:1 sloping walls,
  • The depth from the top of the berms to the lagoon floor will be 7 ft, 3 ft will serve as sludge and clay liner depth, and 2 ft of freeboard provides an operating depth of 2 ft.
    • Total storage capacity of the basin from bottom to spillway is 1,238,000 gallons
    • Storage between from the 3 ft level to the 5 ft level provides 391,000 gallons of storage.
  • The basin is non-aerated, 186 ft by 186 ft and has a surface area of 34,596 ft².
  • Using a design flow of 2,000 gpd, that provides approximately 195 days of retention and using 2,500 gpd wet weather flow, this provides 156 days of retention.
  • The berm width will be 8 ft.
  • There will be a permanent marker in the lagoon to record levels at each foot.
• Irrigation – Biosolids from this storage basin are expected to be applied on Areas 6 and 7 in the Appendix, providing approximately 163 acres for application. From the facility plan, septage is injected 6 inches below the surface on the land meaning no septage raises to the surface of the land. The application vehicle moves at a steady pace and always is in motion. The gauge on the tank shows level capacities for the operator to easily monitor the application.

5. OPERATING PERMIT

The facility is currently covered under MOG821123, MOG821017, and MOG920002, but following construction will be covered under site specific operating permit, MO-0139564. The site-specific operating permit was public noticed February 26, 2021 through March 26, 2021 with no comments received. Submit the Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) and request the site specific operating permit be issued.

With the CP application, a site specific operating permit application was submitted for public notice to reflect the changes in your operating permits. The renewal applications for MOG821123, MOG821017, and MOG920002 will be due before the construction permit expires. The site specific permit application does not fulfill the renewal application obligation. The renewal applications for MOG821123 and MOG821017 will be due by October 30, 2022 and the renewal application for MOG920002 is due by December 15, 2022.

V. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

Administrative Hearing Commission  
U.S. Post Office Building, Third Floor  
131 West High Street, P.O. Box 1557  
Jefferson City, MO 65102-1557  
Phone: 573-751-2422  
Fax: 573-751-5018  
Website: https://ahc.mo.gov

Leasue Meyers, EI  
Engineering Section  
first.last@dnr.mo.gov

Cailie Carlile, P.E., Unit Chief  
Engineering Section  
cailie.carlile@dnr.mo.gov
APPENDIX A: SITE MAP

BONACKER FARMS
LAND APPLICATION FACILITY PLAN

LEGEND
APPLICATION BOUNDARY
SITE BUILDINGS
EXISTING SEWERS
PROPERTY LINES
EXISTING FENCES

1 - 4.13 AC
2 - 4.12 AC
3 - 4.12 AC
4 - 4.05 AC
5 - 4.05 AC
6 - 4.74 AC
7 - 4.06 AC

EXISTING OFFICE
PROPOSED LINEMARKERS
PROPOSED STORAGE BASIN
**APPLICATION OVERVIEW**

The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consists of Part A and B. **All applicants must complete Part A.** Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. Please read the accompanying instructions before completing this form. Submission of an incomplete application may result in the application being returned.

**PART A – BASIC INFORMATION**

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<th>Question</th>
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<th>N/A</th>
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<th>Code</th>
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<td>1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?</td>
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<td>1.4 Is a copy of the facility plan for wastewater treatment facilities included with this application?</td>
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<td>1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department?</td>
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<td>N/A: However, in the event the department believes that my operating permit requires revision to permit limitation such as changing equivalent to secondary limits to secondary limits or adding total residual chlorine limits, please share a draft copy prior to public notice?</td>
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<td>1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency?</td>
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<td>1.9 Is the appropriate fee or JetPay confirmation included with this application?</td>
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**PROJECT INFORMATION**

2.1 **NAME OF PROJECT**

Bonacker Farms

2.2 **ESTIMATED PROJECT CONSTRUCTION COST**

$15,000.00

2.3 **PROJECT DESCRIPTION**

construction of a sludge holding basin

2.4 **SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION**

Sludge is held in basin and then land applied

2.5 **DESIGN INFORMATION**

A. Current population: 3000; Design population: 1000

B. Actual Flow: 2000 gpd; Design Average Flow: 2500 gpd;

2.6 **ADDITIONAL INFORMATION**

A. Is a topographic map attached? ☑ Yes ☐ No

B. Is a process flow diagram attached? ☑ Yes ☐ No
3.0 WASTEWATER TREATMENT FACILITY

Wastewater Treatment Facility: Mo- (Outfall Of )

3.1 Legal Description: _____¼, _____¼, _____¼, Sec._____ T_____, R_____
(Use additional pages if construction of more than one outfall is proposed.)

3.2 UTM Coordinates Easting (X):_____, Northing (Y):_____
For Universal Transverse Mercator (UTM), Zones 15 North referenced to North American Datum 1983 (NAD83)

3.3 Name of receiving streams:_____

4.0 PROJECT OWNER

NAME: Wayne Bonacker
TELEPHONE NUMBER WITH AREA CODE: (314)560-6279
E-MAIL ADDRESS: waynebonacker@sbcglobal.net

ADDRESS: 4211 Highway W
CITY: House Springs
STATE: MO 63051

5.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements.

NAME: Wayne Bonacker
TELEPHONE NUMBER WITH AREA CODE: (314)560-6279
E-MAIL ADDRESS: waynebonacker@sbcglobal.net

6.0 ENGINEER

ENGINEER NAME/COMPANY NAME: Ganey Engineering llc
TELEPHONE NUMBER WITH AREA CODE: (314)973-0377
E-MAIL ADDRESS: ganeylegineering@yahoo.com

ADDRESS: 3406 Old State Rd. M
CITY: Imperial
STATE: MO 63052

8.0 PROJECT OWNER: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PROJECT OWNER SIGNATURE: Wayne Bonacker
DATE: 3/16/2020

Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.