

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**  
**MISSOURI CLEAN WATER COMMISSION**



**CONSTRUCTION PERMIT**

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

Roger and Lela Franklin  
Owners  
RLF Retreats, LLC  
HC 1 Box 570  
Jadwin, MO 65501

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.

May 14, 2021  
Effective Date

May 13, 2023  
Expiration Date

  
Edward B. Galbraith, Director, Division of Environmental Quality

  
Chris Wieberg, Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **I. CONSTRUCTION DESCRIPTION**

This project includes the construction of a new drip dispersal treatment system for the RLF Retreats, LLC resort campground and event hall located in Shannon County. There are two sites available on the property for drip dispersal. The treatment system for Site 1 will include one (1) 1,000 gallon septic tank, one (1) 2,000 gallon grease interceptor, one (1) 4,000 gallon equalization basin with effluent filter and pump, one (1) Delta ECOPOD E100 aeration unit, one (1) 1,000 gallon pump tank, one (1) headworks box, and the drip dispersal field. The treatment system for Site 2 will include one (1) existing 1,200 gallon septic tank, one (1) 1,000 gallon septic tank, one (1) 3,000 gallon equalization basin with effluent filter and pump, one (1) Delta ECOPOD E50 aeration unit, one (1) 1,000 gallon pump tank, one (1) headworks box, and the drip dispersal field.

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 publically-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 Terris L. Cates, P.E. with Integrity Engineering, Inc. 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 Southeast Regional Office per 10 CSR 20-7.015(9)(G).
5. The completed project shall be field tested to verify actual pumped volume of each dose. The timer controls shall be set to ensure a dosing rate not to exceed the allowable rate of 0.3 gallons per square foot per day.
6. 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') unless another distance is determined by the Missouri Geological Survey or by the department's Public Drinking Water Branch per 10 CSR 20-8.140(2)(C)1.
7. 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](http://dnr.mo.gov/env/wpp/epermit/help.htm). See [dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](http://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm) for more information.
8. 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/](http://dnr.mo.gov/env/wpp/401/) for more information.

9. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
- Subsurface systems shall—
    - Exclude unstabilized fill and soils that have been highly compacted and/or disturbed, such as old road beds, foundations, or similar things; 10 CSR 20-8.200 (7) (A) 1. A.
    - Provide adequate surface drainage where slopes are less than two percent (2%); 10 CSR 20-8.200 (7) (A) 1. B.
    - Provide surface and subsurface water diversion where necessary, such as a curtain or perimeter drain; 10 CSR 20-8.200 (7) (A) 1. C. and
    - Have a ten foot (10') buffer from the property line. 10 CSR 20-8.200 (7) (A) 1. D.
  - The vertical separation between the bottom of the drip lines and/or the trench and a limiting layer, including but not limited to, bedrock; restrictive horizon; or seasonal high water table, shall be no less than:
    - Twenty-four inches (24"); 10 CSR 20-8.200 (7) (A) 2. A. or
    - Twelve inches (12") for systems dispersing secondary or higher quality effluent; 10 CSR 20-8.200 (7) (A) 2. B. or
    - Forty-eight inches (48") where karst features are present unless the site can be reclassified. 10 CSR 20-8.200 (7) (A) 2. C.
  - Subsurface systems shall be, at a minimum, preceded by preliminary treatment. 10 CSR 20-8.200 (7) (B)
  - Loading rates shall not exceed the values assigned by the site and soil evaluation. 10 CSR 20-8.200 (7) (C)
  - The location and size of the drains and buffers must be factored into the total area required for the drip dispersal system. 10 CSR 20-8.200 (9) (A) 1.
  - The drip dispersal lines shall be placed at a minimum depth of six inches (6") below the surface. 10 CSR 20-8.200 (9) (B) 1.
  - Emitters and drip dispersal lines shall be placed at a minimum on a two foot (2') spacing to achieve even distribution of the wastewater and maximum utilization of the soil. 10 CSR 20-8.200 (9) (B) 2.
10. Upon completion of construction:
- A. RLF Retreats, LLC 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;
  - C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N) and submit a Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ( $\leq 100,000$  gallons per day) and fee to the Engineering Section of the Water Protection Program 60 days prior to operation. Identify that the application is for a General permit for land application of domestic wastewater, MO-G823.

## **IV. REVIEW SUMMARY**

### **1. CONSTRUCTION PURPOSE**

The purpose of this project is to construct a new drip dispersal subsurface absorption system for the RLF Retreats resort campground and event hall located in Jadwin, MO.

### **2. FACILITY DESCRIPTION**

RLF Retreats, LLC is located near 705 State Route B, Jadwin, in Shannon County, Missouri. The resort includes one event hall, one restaurant, one shower house, one two-bedroom cabin, one three-bedroom cabin, seventeen tent camping sites, eight glamping cabins, and six RV sites. The resort also has space for six future RV sites and twelve future tent sites. The facility has a maximum design flow of 3,555 gallons per day (gpd) and serves a hydraulic population equivalent of approximately 216 people. Eight composting toilets onsite reduce the hydraulic population equivalent by 16 capita, and nine portable restrooms reduce the hydraulic population equivalent by 117 capita. This offset of loading results in an average hydraulic population equivalent of 73 people and a design average flow of 1,065 gpd.

There are two sites available for subsurface wastewater treatment. The treatment system for each site will consist of septic tanks, an equalization basin with effluent filter and pump, a Delta ECOPOD aeration unit for secondary treatment, and a drip dispersal system preceded by a pump tank and headworks box. The Site 1 drip dispersal system will receive a maximum daily flow of 600 gpd at a dosing rate of 0.3 gpd/ sq. ft. The Site 2 drip dispersal system will receive a maximum daily flow of 450 gpd at a dosing rate of 0.3 gpd/ sq. ft.

### **3. COMPLIANCE PARAMETERS**

The proposed project is required to meet the requirements of MOG823 general permit with an expiration date of August 24, 2022. The facility shall comply with the Permit Requirements (applicable to all facilities) found on pages 4 and 5 of the permit and the Subsurface Dispersal Operational Requirements found on pages 8 and 9 of the permit.

In accordance with MOG823 Applicability item 12, the following setback distances have been approved for this project:

- 10 feet from the permitted facility's property line in accordance with 10 CSR 20-8.200(7)(A)D.
- As far away from the existing onsite community drinking water well as possible. Approximately 243 ft from drip dispersal Site #1 and 200 ft from drip dispersal Site #2 as approved by the Public Drinking Water Branch (see Appendix).

#### **4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA**

- **Septic Tanks** – A septic tank provides passive primary treatment as the settleable solids in raw wastewater settle onto the bottom of the tank.
  - Raw wastewater from the three-bedroom cabin will flow by gravity to a 1,000 gallon septic tank with 1/16-in effluent filter screen. Discharge will flow by gravity via 4-in PVC to the Site 2 equalization basin.
  - Raw wastewater from the event hall will flow by gravity to a 1,000 gallon septic tank with a 1/16-in effluent filter screen. Discharge will flow by gravity via 6-in PVC to the Site 1 equalization basin.
  - Raw wastewater from the shower house and two-bedroom cabin will flow by gravity to an existing 1,200 gallon septic tank. A downstream flow splitter will split the discharge between the Site 1 and Site 2 equalization basins.
- **Grease Interceptor** – A grease interceptor is utilized to intercept and collect grease from raw wastewater and prevents grease from clogging downstream components of the treatment system. Raw wastewater from the restaurant will flow by gravity to a 2,000 gallon grease interceptor with a 1/16-in effluent filter screen. Discharge will flow by gravity via 6-in PVC to the Site 1 equalization basin.
- **Equalization Basins** – Equalization basins are utilized to control the flowrate to the downstream treatment system and provide storage during peak flow events.
  - Site 1 will include a concrete equalization basin with a design volume of 4,000 gallons. A Liberty 250-Series 1/3 hp submersible pump with timer, a system of three (3) floats providing controls for high and low usage conditions, and high-water alarm will be installed to transfer 600 gpd from the equalization basin to the ECOPOD.
  - Site 2 will include a concrete equalization basin with a design volume of 3,000 gallons. A Liberty 250-Series 1/3 hp submersible pump with timer, a system of three (3) floats providing controls for high and low usage conditions, and high-water alarm will be installed to transfer 450 gpd to the ECOPOD.
- **Delta ECOPOD Aeration Units** – The Delta ECOPOD system is an aerated fixed film media system capable of providing biological wastewater treatment.
  - Site 1 will include a Delta ECOPOD Model E-100 capable of treating 750 gpd. The prefabricated and assembled ECOPOD unit shall be installed in an Infiltrator IM-1060 rectangular tank with a working volume of 1,094 gallons. Air diffusion drop pipes of 1-in schedule 40 PVC shall supply air to the media. A 240 Volt, 1 Phase, 60 Hz blower motor unit shall supply 100 percent of the wastewater air requirements.
  - Site 2 will include a Delta ECOPOD Model E-50 capable of treating 500 gpd. The prefabricated and assembled ECOPOD unit shall be installed in an Infiltrator IM-1060 rectangular tank with a working volume of 1,094 gallons. Air diffusion drop pipes of 1-in schedule 40 PVC shall supply air to the media. A 240 Volt, 1 Phase, 60 Hz blower motor unit shall supply 100 percent of the wastewater air requirements.

- Pump Tanks – Site 1 and Site 2 will both include a 1,000 gallon pre-cast concrete pump tank each with a Liberty LEH150-Series 1.5 hp submersible pump. Pump sizing is based on 13.7 gpm at 66.6 ft Total Dynamic Head (TDH) at Site 1 and 11.2 gpm at 62.5 ft TDH at Site 2. Under normal operating conditions, the pumps shall operate on timed dosing.
- Soils Investigation – The soils at this site are rated for a hydraulic loading of 0.3 gpd/sq ft. Soil morphology review was conducted during the construction permit application review and on-site soils were determined to be acceptable for this system. The soil investigation was completed by Brad McKee, Certified Soil Scientist, on July 20, 2020. In the soils investigation, there were two test pits dug over the proposed site. Both sites received an overall site classification of “suitable” for an alternative onsite wastewater system.
- Drip Dispersal System –The facility has selected the Geoflow drip dispersal system, which will include a 2-in biodisc filter in the headworks above the manifold, 2-in PVC SDR-21 supply pipe and 1.5-in PVC SDR-21 return pipe for both Site 1 and Site 2. The dripline for each site will consist of 0.5-in ID polyethylene tubing with emitters regularly spaced 24-in apart. Combo air/vacuum release valves will be installed on the manifold high points. A curtain drain will be installed on the uphill side of each drip dispersal site.
  - Site 1 will receive a maximum of 600 gpd with a hydraulic loading rate of 0.3 gpd/sq. ft. The Site 1 drip field has a surface area of 2,000 sq. ft and will include 1,000 lf of drip line.
  - Site 2 will receive a maximum of 450 gpd with a hydraulic loading rate of 0.3 gpd/ sq. ft. The Site 2 drip field has a surface area of 1,500 sq. ft and will include 750 lf of drip line.

## **5. OPERATING PERMIT**

After completion of construction project submit: statement of work completed, as-built if the project was not constructed in accordance with previously submitted plans and specifications, and ensure that Application Form B, and fee has been submitted. Missouri State Operating Permit, General Permit MO-G823183, will be issued after receipt of the above documents.

## **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>

Ellen Modglin, E.I.  
Engineering Section  
[Ellen.Modglin@dnr.mo.gov](mailto:Ellen.Modglin@dnr.mo.gov)

Cindy LePage, P.E.  
Engineering Section  
[Cindy.LePage@dnr.mo.gov](mailto:Cindy.LePage@dnr.mo.gov)



# APPENDIX: Public Drinking Water Branch – Design Standards Exception Approval

 <b>MISSOURI DEPARTMENT OF NATURAL RESOURCES          PUBLIC DRINKING WATER BRANCH          DESIGN STANDARDS EXCEPTION REQUEST</b>		FOR OFFICE USE ONLY	
		PROJECT ID NUMBER <b>4000034-21</b> DATE RECEIVED <b>5-5-21</b>	
PUBLIC WATER SUPPLY CLASSIFICATION <input checked="" type="checkbox"/> Community <input type="checkbox"/> Nontransient Noncommunity <input type="checkbox"/> Transient Noncommunity		DATE <b>5/4/21</b>	
NAME OF WATER SYSTEM <b>RLF Retreats</b>		COUNTY <b>Shannon</b>	PUBLIC WATER SYSTEM ID <b>MO</b>
TYPE OF CONSTRUCTION <input checked="" type="checkbox"/> Well <input type="checkbox"/> Treatment <input type="checkbox"/> Storage <input checked="" type="checkbox"/> Distribution System <input type="checkbox"/> Other (Describe)			
RULE REFERENCE (IF APPLICABLE)			
DESIGN STANDARD REFERENCE <b>Minimum Design Standards for Missouri Community Water Systems, section 3.2.3.2. a Table 3</b>			
DESCRIPTION OF EXCEPTION REQUEST (IF MORE SPACE IS NEEDED, USE SEPARATE PAGE) <div style="text-align: center; font-size: 1.2em;">See Attached.</div>			
CONSULTING ENGINEER'S JUSTIFICATION AND REFERENCES (IF MORE SPACE IS NEEDED, USE SEPARATE PAGE) <div style="text-align: center; font-size: 1.2em;">See Attached.</div>			
I affirm that data used for justification is factual, and hereby request a design standards exception for this project.			
CONSULTING ENGINEER NAME AND SIGNATURE <b>Terris L. Cates</b>			
APPLICANT NAME AND SIGNATURE <b>RLF Retreats</b>			
FOR OFFICE USE ONLY			
THE DEPARTMENT'S CONCLUSIONS ARE BASED ON THE FOLLOWING <b>The subsurface soil absorption disposal system will be as far away from the existing well as possible. Routine monthly bacteriological sampling will be completed.</b>			
SIMILAR EXAMPLES USED			
ON THE BASIS OF REVIEW CONDUCTED IN ACCORDANCE WITH MISSOURI DRINKING WATER REGULATIONS <input checked="" type="checkbox"/> Justification is sufficient to approve a <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary exception <input type="checkbox"/> Exception is denied <input type="checkbox"/> Without conditions <input checked="" type="checkbox"/> With Conditions			
DEPARTMENT OF NATURAL RESOURCES REVIEW ENGINEER <b>Megan Torrence</b>		SIGNATURE <b>Maher Jaafari</b>	DATE <b>5-6-21</b>
CHIEF, INFRASTRUCTURE PERMITS AND ENGINEERING <b>Maher Jaafari, P.E.</b>		SIGNATURE <b>Maher Jaafari</b>	DATE <b>5-6-21</b>
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES PUBLIC DRINKING WATER BRANCH, P.O. BOX 176, JEFFERSON CITY, MO 65102-0176 PHONE: 800-361-4827 or 573-751-5331    FAX: 573-526-1146 Or email to: <a href="mailto:pdwb.engineeringwaterpermits@dnr.mo.gov">pdwb.engineeringwaterpermits@dnr.mo.gov</a>			

### **Description of Exception Request**

10 CSR 20-8.140 Wastewater Treatment Facilities (2) (C) paragraph 1 states that "the minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300').

A subsurface soil absorption disposal system is not the same as an open discharge wastewater treatment facility. It is also noted that the existing domestic/community well was installed in July 1998 and is not new.

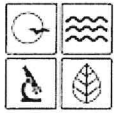
We reference Minimum Design Standards for Missouri Community Water Section 3.2.3.2 Isolation Standards, paragraph A, page 30 and Table 3-New Well Isolation Radii, page 31.

### **Justification and References**

The subsurface soil absorption drip irrigation field setback distances are in compliance. Site #1 has a setback distance of 243.58' and Site #2 has a setback distance of 200.18' from the domestic - community potable well. A drip irrigation disposal system is the least environmentally impacting subsurface soil absorption system available. The water must pass through primary treatment via septic tanks, has secondary biological treatment in aerated fixed film reactors and then is dispersed in a drip irrigation site to the top 6" – 8" of topsoil. The treated water is absorbed in the root zone or consumed in evapotranspiration.

The existing potable domestic - community well was installed in accordance with MO-DNR standards and provides excellent quality water. The owners have taken a number of bacteriological samples and each has passed with no issues. The present owners inherited a facility where the retreat center has 300-gallon poly septic tanks with open ground surface discharges which are not impacting the well because of its excellent depth, casing and construction.

The well characteristics are as follows: Well Reference No.: 00149739, Drilled: July 1998, bore hole 8.62", 370' steel casing, 6.62" outside diameter, Drill depth: 505', Pump Depth 441', grouted with 8 sacks of bentonite chips, well yield: 25 gpm, pump capacity: 11 gpm, located near Jadwin, Shannon County.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
**APPLICATION FOR CONSTRUCTION PERMIT –  
WASTEWATER TREATMENT FACILITY**

**FOR DEPARTMENT USE ONLY**

APP NO.	CP NO.
FEE RECEIVED	CHECK NO.
DATE RECEIVED	

**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. Submittal of an incomplete application may result in the application being returned.**

**PART A – BASIC INFORMATION**

**1.0 APPLICATION INFORMATION** (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)

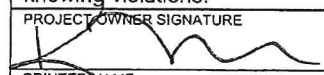
- 1.1 Is this a Federal/State funded project? ☐ YES ☒ N/A Funding Agency: \_\_\_\_\_ Project #: \_\_\_\_\_
- 1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?  
☐ YES Date of Approval: \_\_\_\_\_ ☒ N/A
- 1.3 Has the department approved the proposed project's facility plan\*?  
☐ YES Date of Approval: \_\_\_\_\_ ☒ NO (If No, complete No. 1.4.)
- 1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan\* for wastewater treatment facilities included with this application?  
☒ YES ☐ NO ☐ Exempt because \_\_\_\_\_
- 1.5 Is a copy of the appropriate plans\* and specifications\* included with this application?  
☒ YES Denote which form is submitted: ☒ Hard copy ☒ Electronic copy (See instructions.) ☐ NO
- 1.6 Is a summary of design\* included with this application? ☒ YES ☐ NO
- 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department?  
☒ YES Date of submittal: 3/1/21  
☐ Enclosed is the appropriate operating permit application and fee submittal. Denote which form: ☐ A ☒ B ☐ B2  
☐ 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? ☒ YES ☐ NO
- 1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency? ☐ YES ☒ NO
- 1.9 Is the appropriate fee or JetPay confirmation included with this application? ☒ YES ☐ NO  
See Section 7.0

\* Must be affixed with a Missouri registered professional engineer's seal, signature and date.

**2.0 PROJECT INFORMATION**

2.1 NAME OF PROJECT RLF Retreats	2.2 ESTIMATED PROJECT CONSTRUCTION COST \$ 98,400
2.3 PROJECT DESCRIPTION This is a resort with cabins, tent and glamping primitive camping, an event center and bar and grill. Aerated fixed film pretreatment followed by drip irrigation subsurface soil absorption fields handles 97% of the maximum generated wastewater. The remaining 3% of the generated wastewater is treated by existing conventional septic tanks and soil absorption fields.	
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION Sludge will be hauled and disposed as needed by a DNR permitted contract hauler to a DNR permitted treatment facility	
2.5 DESIGN INFORMATION A. Current population: <u>47</u> ; Design population: <u>216</u> B. Actual Flow: <u>800</u> gpd; Design Average Flow: <u>1800</u> gpd; Actual Peak Daily Flow: <u>1235</u> gpd; Design Maximum Daily Flow: <u>3555</u> gpd; Design Wet Weather Event: <u>3555</u>	
2.6 ADDITIONAL INFORMATION A. Is a topographic map attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO B. Is a process flow diagram attached? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	



<b>3.0 WASTEWATER TREATMENT FACILITY</b>					
NAME RLF Retreats		TELEPHONE NUMBER WITH AREA CODE (573) 247-6865		E-MAIL ADDRESS rogerthwtrman@gmail.com	
ADDRESS (PHYSICAL) 705 State Route B		CITY Jadwin	STATE MO	ZIP CODE 65501	COUNTY Shannon
Wastewater Treatment Facility: Mo- (Outfall Of )					
3.1 Legal Description: <u>1/4, SE 1/4, SE 1/4, Sec. 6</u> , T <u>31N</u> , R <u>6W</u> (Use additional pages if construction of more than one outfall is proposed.)					
3.2 UTM Coordinates Easting (X): <u>621176</u> Northing (Y): <u>4140970</u> For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)					
3.3 Name of receiving streams: <u>NA</u>					
<b>4.0 PROJECT OWNER</b>					
NAME RLF Retreats		TELEPHONE NUMBER WITH AREA CODE (573) 247-6865		E-MAIL ADDRESS rogerthwtrman@gmail.com	
ADDRESS HC 1 Box 570		CITY Jadwin	STATE MO	ZIP CODE 65501	
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 RLF Retreats		TELEPHONE NUMBER WITH AREA CODE (573) 247-6865		E-MAIL ADDRESS rogerthwtrman@gmail.com	
ADDRESS C 1 Box 570		CITY Jadwin	STATE MO	ZIP CODE 65501	
5.1 A letter from the continuing authority, if different than the owner, is included with this application. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A					
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.					
A. Is a copy of the certificate of convenience and necessity included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.					
A. Is a copy of the as-filed restrictions and covenants included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
<b>6.0 ENGINEER</b>					
ENGINEER NAME / COMPANY NAME Terris L. Cates / Integrity Engineering, Inc		TELEPHONE NUMBER WITH AREA CODE (573) 341-2100		E-MAIL ADDRESS terris@integrityeng.com	
ADDRESS 1714 E. 10th Street		CITY Rolla	STATE MO	ZIP CODE 65401	
<b>7.0 APPLICATION FEE</b>					
<input checked="" type="checkbox"/> CHECK NUMBER <input type="checkbox"/> JETPAY CONFIRMATION NUMBER					
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 					
PRINTED NAME Roger and Lela Franklin				DATE 3/1/21	
TITLE OR CORPORATE POSITION Owners		TELEPHONE NUMBER WITH AREA CODE (573) 247-6865		E-MAIL ADDRESS rogerthwtrman@gmail.com	
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.					