STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Southfork Resort 36765 Highway 154 Stoutsville, MO 65283

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.

December 3, 2018 Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

December 2, 2020 Expiration Date

Chris Wieberg, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

The existing facility has a single cell no-discharge lagoon serving 17 rental units. The resort is expanding by constructing a campground directly to the south of the site, which would have space for 30 camping units.

The resort plans to install a spray field and use the existing equipment to remain as a nondischarging, land application system. The facility will have a design average flow of 3,920 gpd and serve a hydraulic population equivalent of approximately 40 people.

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 in accordance with the plans and specifications submitted by Four Points Surveying & Engineering, Inc. on August 28, 2018.

- 3. The Department must be contacted in writing prior to making any changes to the approved 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(8).
- 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 Northeast Regional Office per 10 CSR 20-7.015(9)(E)2.
- 5. The wastewater treatment facility shall be located at least fifty feet (50') from any dwelling or establishment.
- 6. The wastewater treatment facility shall be located above the twenty-five (25)-year flood level.
- 7. Wastewater treatment facility shall not be located within one hundred feet (100'), and preferably three hundred feet (300') of any water well or water supply structure.
- 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 <u>dnr.mo.gov/env/wpp/epermit/help.htm</u>. See <u>dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</u> for more information.
- 9. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the Department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of jurisdictional waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Water Protection Program at 573-751-1300 for more information. See <u>dnr.mo.gov/env/wpp/401/</u> for more information.
- 10. Upon completion of construction:
 - A. Southfork Resorts will become the continuing authority for operation, maintenance, and modernization of these facilities;
 - B. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications;
 - C. Submit the eDMR permit Holder and Certifier Registration, Form--MO 780-2204 to comply with your operating permit; and

D. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D) and request the general operating permit be issued for this facility.

IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

The existing facility has 17 rental units, which consist of cabins, kitchenettes, and motel rooms. The resort is expanding by constructing a campground directly to the south of the site, which would have space for 30 camping units at full capacity. The expansion will require modification to the existing wastewater treatment system to accommodate additional flows.

2. FACILITY DESCRIPTION

The nature of this resort is mainly for summer recreation around Mark Twain Lake. Flows are very seasonal and increase significantly during the summer months. The existing facility has a single cell no-discharge lagoon. The facility currently owns a fixed spray gun to use for irrigation in case of excessive flows to prevent lagoon overflows.

With the proposed expansion, modifications will be required to accommodate additional flows. The resort plans to install a spray field and use the existing equipment to remain as a non-discharging, land application system.

The Southfork Resort WWTF is located on Highway 154, southwest of the intersection with State Highway E and roughly two and a half miles south of the city of Florida in Monroe County, Missouri. The facility has a design average flow of 3,920 gpd and serves a hydraulic population equivalent of approximately 40 people.

3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is required to meet the requirements of MOG823127 Table A and Table B with an expiration date of August 24, 2022. The facility will be required to monitor storage basin freeboard, daily precipitation, daily volume land applied, application area, and application rate.

4. <u>REVIEW of MAJOR TREATMENT DESIGN CRITERIA</u>

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

• Lagoon Cell No. 1 – Lagoon Cell No. 1 is non-aerated and has a surface area of approximately 0.24 acres and a wastewater volume of 245,000 gallons. This cell has 2 ft. of freeboard, 4 ft. of operating depth, and 1.5 ft. of sludge depth, and a compacted clay liner. This lagoon provides approximately 62.5 days of retention at the proposed design flow.

Construction will cover the following items:

- The design flow of 3,920 gpd was based on seasonal campground usage and takes into account flow equalization provided in the lagoon. Components are designed for a population equivalent of 66 based on organic loading to the system.
- Flow Measurement
 - Pump calibration time Pump flow will be measured and calibrated at the beginning of operations and flow will be estimated based on pump run time.
- Septic Tank Septic tanks provide passive primary treatment as the settleable solids in raw wastewater settle onto the bottom of the tank. Raw wastewater will flow by gravity to three single compartment septic tanks with a combined capacity of 4,000 gallons, with two (2) proposed 1,500-gallon tanks and one (1) proposed 1,000-gallon tank. The 1,500-gallon septic tanks will be 145 in. x 68 in. x 59.5 in. tall with a water level depth of 46.5 in. and the 1,000-gallon tank will be 96 in. x 64 in. x 65 in. tall with a water level depth of 51 in. The septic tanks provide approximately one day of detention at design average flow. Effluent from the septic tanks will flow by gravity into the existing lagoon. Settled solids in the septic tank shall be removed by a contract hauler.
- Land Application Pump Station Installation of a land application pump to transfer treated wastewater from Lagoon Cell No. 1 to the land application site. The pump will be a Honda WH20XTAF high-pressure 7.5 HP water pump capable of operating at 80 gpm at 83 feet of TDH.
- Land Application Site Construction of approximately 400 lf of 3-inch PVC SDR-21 force main to transfer wastewater from the land application pump station to the land application site. The land application site is in the vicinity of Highway 154, southwest of the intersection with State Highway E and roughly two and a half miles south of the city of Florida in Monroe County. The land application site is approximately 1.13 acres of pasture, with more land available on site as reserve. This application site is unfenced. In order to prevent access, signs shall be placed around the perimeter of the application area reading "Wastewater Treatment Land Application Area, No Trespassing/Do Not Enter." Additionally, when possible, application will occur during the early week when the campground is expected to be empty. Maximum application rates are 0.003 inches/hour, 0.07 inch/day, 0.50 inches/week, and 19.55 inches/year.

- Wastewater Irrigation
 - Irrigation Spray Gun Wastewater irrigation will be completed with a spray gun mounted on a small trailer that has the capacity to irrigate at 80 gpm and is capable of operating in a full circle with a barrel trajectory of 27 degrees and capable of spraying a 125 ft. diameter circle (0.28 acres) at 25 psi of pressure. The force main described above will be buried to the center of the irrigation area, where it will come out of the ground and have a quick connect fitting. This will then connect to a 125 ft. long, 2.5-inch fire hose, which will allow the spray gun to be moved to four locations around the center pipe, and will allow for 1.13 acres of irrigation area. The facility currently owns a Rainbow Volume Gun Model 300. The wastewater will be irrigating at a hydraulic rate.

5. OPERATING PERMIT

This facility will require a general operating permit, MOG823127. Submit the Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D) and request the general operating permit be issued when construction is complete.

Cailie Carlile, P.E. Engineering Section cailie.carlile@dnr.mo.gov

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B. Is a process flow diagram attached? ZYES NO	3. Is a process flow diagram attached? VES NO		
	6 ESTIMATED PROJECT CONSTRUCTION COST	-	
			ess now diagram attached? 🕑 YES 📋 NO

a s

3.0 WASTEWATER TREATMENT F NAME Southfork Resort	*****	TELEPHONE NUMBER V (573) 206-3839	VITH AREA CODE	EMAIL ADDRESS reservations@	southforkresc
ADDRESS (PHYSICAL) 36765 Highway 154	стту Stoutsvill	e	STATE MO	ZIP CODE 65283	COUNTY Monroe
Wastewater Treatment Facility: Mo-	(Outfal	Of)			
 3.1 Legal Description: ¼, NE (Use additional pages if construct 3.2 UTM Coordinates Easting (X): For Universal Transverse Mercal 3.3 Name of receiving streams: 	tion of more than on North	one outfall is propos ing (Y):		an Datum 1983 ((NAD83)
4.0 PROJECT OWNER		TELEPHONE NUMBER V	VITH AREA CODE	EMAIL ADDRESS	
Southfork Resort - Ron Gillitzer		(573) 206-3839		reservations@	Dsouthforkres
ADDRESS	CITY	1 ·	STATE	ZIP CODE	
36765 Highway 154	Stoutsvil		МО	65283	
5.0 CONTINUING AUTHORITY: Per and modernization of the wastewater			as the continuing	g authority for the	e operation, ma
NAME	conection system	TELEPHONE NUMBER V	VITH AREA CODE	EMAIL ADDRESS	
Southfork Resort - Ron Gillitzer		(573) 206-3839		reservations@	southforkrest
ADDRESS	CITY	-	STATE	ZIP CODE	
36765 Highway 154	Stoutsvil	e	MO	65283	
 5.1 A letter from the continuing authors 5.2 COMPLETE THE FOLLOWING IF THE CONTINU A. Is a copy of the certificate of conv 5.3 COMPLETE THE FOLLOWING IF THE CONTINU A. Is a copy of the as-filed restriction B. Is a copy of the as-filed warranty wastewater treatment facility to th C. Is a copy of the as-filed legal instruing updated with this application? 	ING AUTHORITY IS A MIS venience and nece ING AUTHORITY IS A PR as and covenants deed, quitclaim de e association inclu rument (typically ti	SOURI PUBLIC SERVICE C ssity included with DPERTY OWNERS ASSOC ncluded with this a red or other legal in uded with this appli	COMMISSION REGULAT this application? ATION. pplication?	YES YES YES YES YES YES NO YES NO transfers owners S NO	
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PART B – LAND APPLICATION ONLY (Submit only if the proposed construction project includes land application of wastewater.)
8.0 FACILITY INFORMATION
 8.1 Type of wastewater to be irrigated:
8.2 Months when the business or enterprise will operate or generate wastewater:
 8.3 This system is designed for: No-discharge Subsurface Partial irrigation when feasible and discharge rest of time Irrigation during recreational season, April – October, and discharge during November – March Other (explain)
9.0 STORAGE BASINS
9.1 Number of storage basins: 1 (Use additional pages if greater than two basins.)
9.2 Type of basins: 🗋 Steel 📋 Concrete 📄 Fiberglass 😰 Earthen 📋 Earthen with membrane liner
9.3 Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe. Basin #1: Length 149 Width 69 Depth 4 Freeboard Depth Safety % Slope Basin #2: Length Width Depth Freeboard Depth Safety % Slope
9.4 Storage Basin operating levels (report as feet below emergency overflow level). Basin #1: Maximum operating water level 2.1 ft Basin #2: Maximum operating water levelft
9.5 Design depth of sludge in storage basins. Basin #1: ft Basin #2: ft
9.6 Existing sludge depth, if the basins are currently in operation. Basin #1: ft Basin #2: ft
9.7 Total design sludge storage: dry tons and cubic feet
10.0 LAND APPLICATION SYSTEM
10.1 Type of land application: Fixed Head Sprinklers Center Pivot Traveling Gun Drip Dispersal Subsurface Low Pressure Pipe Other (describe) Movable fixed head irrigation gun.
10.2 Number of irrigation sites 1 Total Acres 1.62 Maximum % field slopes 5% Location: 14, NE 14, 21 Sec. 54N T 8W R Monroe County 1.62 Acres Location: 14, NE 14, 21 Sec. 54N T 8W R Monroe County 1.62 Acres Location: 14, 14, 24 Sec. T R County Acres Location: 14, 14, 24 Sec. T R County Acres Location: 14, 14, 24 Sec. T R County Acres Use additional pages if greater than three irrigation sites.) Sec. T R Sec. <
10.3 Type of vegetation: Grass hay Pasture Timber Row crops
10.4 Wastewater flow (dry weather) gallons per day: Average annual Seasonal 3585 Off-season 1467
10.5 Land application rate (design flow including 1-in-10 year storm water flows): Design: 19.55 inches/year 0.003 inches/hour 0.07 inches/day 0.50 inches/week Actual: inches/year inches/hour inches/day inches/week
10.6 Total irrigation per year (gallons): Design: 598,144 gal Actual: gal
10.7 Actual months used for irrigation (check all that apply): ☐ Jan ☐ Feb ☑ Mar ☑ Apr ☑ May ☑ Jun ☑ Jul ☑ Aug ☑ Sep ☑ Oct ☑ Nov ☐ Dec
10.8 Land application rate is based on: P Hydraulic Loading Other (describe) Other (describe) Nutrient Management Plan (N and P) If N and P is selected, is the plan included? YES NO No No 780-2189 (12-15) Page 3 of 3

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