

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Sayersbrook Camping & RV Park
11820 Sayersbrook Rd
Potosi, MO 63664

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.

February 3, 2021

Effective Date

Handwritten signature of Edward B. Galbraith in blue ink.

Edward B. Galbraith, Director, Division of Environmental Quality

February 2, 2023

Expiration Date

Handwritten signature of Chris Wieberg in blue ink.

Chris Wieberg, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Sayersbrook Camping & RV Park will have 35 camping spots, 20 RV spots, 14 cabins/tree houses, a restaurant, with a shower house. The site has an existing 5 septic tanks and collection system that will remain in use. The facility has a design average flow of 2,951 gpd and serves a hydraulic population equivalent of approximately 127 people. The lagoon cell will have a wastewater volume of 461,225 gallons, providing approximately 58 days of retention at the peak design flow of 7,915 gpd and 156 days of retention at the design average flow of 2,951 gpd. A simplex grinder pump will be installed to move flows from the lagoon to the 1,000 gallon trash tank. Following that either 2-1,500 gallon tanks or 1-3,000 gallon tank will be installed before the 1,500 gallon dosing tank, which will have 2 pumps. The subsurface drip dispersal system will have a loading rate of 0.2 gpd/sq ft over the 8 zones, for a total 14,756 sq ft, to provide dosing of the design average flow of 2,951 gpd.

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 Robert Heine 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 0.20 gallons per square foot per day.
6. The wastewater treatment facility shall be located at least fifty feet (50') from any dwelling or establishment.
7. The wastewater treatment facility shall be located above the twenty-five (25)-year flood level.
8. 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.
9. 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.
10. 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 dnr.mo.gov/env/wpp/401/ for more information.
11. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.
 - Rain water from roofs, streets, and other areas and groundwater from foundation drains shall be excluded from all new sewers. 10 CSR 20-8.120 (2)

- There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply. 10 CSR 20-8.120 (5) (A)
- Sewers shall be laid at least fifty feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures. Sewers must also comply with 10 CSR 23-3.010. 10 CSR 20-8.120 (5) (B)
- 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; 200' to a neighboring residence for open recirculating media filters following primary treatment; and 50' to a neighboring residence for all other discharging facilities. 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)
- The alarm shall be activated in cases of high water levels. Follow the provisions in subsection (7)(C) of this rule for alarm systems. 10 CSR 20-8.140 (4) (D)
- The outfall shall be so constructed and protected against the effects of flood water, ice, or other hazards as to reasonably ensure its structural stability and freedom from stoppage. 10 CSR 20-8.140 (6) (A)
- All outfalls shall be posted with a permanent sign indicating the outfall number (i.e., Outfall #001). 10 CSR 20-8.140 (6) (C)
- All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140 (7) (A) 1.
- Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 *National Electric Code (NEC)* (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
- 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)

- 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.
- 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)
- A septic tank must have a minimum capacity of at least one thousand (1,000) gallons. 10 CSR 20-8.180 (2) (A)
- The septic tank shall be baffled. 10 CSR 20-8.180 (2) (B)
- Lagoon berms shall be constructed of relatively impervious material and compacted to at least ninety-five percent (95%) maximum dry density test method to form a stable structure. 10 CSR 20-200(4)(A)1.
- The minimum berm width shall be eight feet (8') to permit access of maintenance vehicles. 10 CSR 20-200(4)(A)2.
- Minimum freeboard shall be two feet (2'). 10 CSR 20-200(4)(A)3.
- The lagoon shall be sealed to ensure that seepage loss is as low as possible and has a design permeability not exceeding 1.0×10^{-7} cm/sec. 10 CSR 20-200(4)(C)1.
- The minimum thickness of the compacted clay liner must be twelve inches (12"). Seep collars shall be provided on drainpipes where they pass through the lagoon seal. 10 CSR 20-200(4)(C)4.
- Unlined corrugated metal pipe shall not be used for influent lines due to corrosion problems. 10 CSR 20-8.200 (4) (D) 1.
- A manhole shall be installed with its invert at least six inches (6") above the maximum operating level of the lagoon, prior to the entrance into the primary cell, and provide sufficient hydraulic head without surcharging the manhole. 10 CSR 20-8.200 (4) (D) 2.
- 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.
- 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)
- All network piping and low pressure distribution piping and fittings with polyvinyl chloride (PVC) shall meet ASTM Standard D 1785 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, or 120* as approved and published August 1, 2015, or equivalent rated to meet or exceed ASTM D2466 *Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings* as approved and published August 1, 2017. These standards shall hereby be incorporated by reference into this rule, as published by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959. This rule does not incorporate any subsequent amendments or additions. 10 CSR 20-8.200 (8) (A) 2.
- 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.

12. Upon completion of construction:

- A. Wagner, Coroama, Neubert, 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

- D. Submit a Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ($\leq 100,000$ gallons per day) and operating permit fee of \$150. Identify that the application is for a General permit for land application of domestic wastewater, MO-G823.

IV. REVIEW SUMMARY

1. FACILITY DESCRIPTION

The Sayersbrook Camping & RV Park is located at 11820 Sayersbrook Rd, Potosi, in Washington County, Missouri. The facility has a design average flow of 2,951 gpd and serves a hydraulic population equivalent of approximately 127 people.

2. COMPLIANCE PARAMETERS

The proposed project is required to meet the requirements of MOG823 with an expiration date of August 24, 2022. The facility will be required to monitor storage basin freeboard and daily precipitation per Table B. The subsurface system has no monitoring requirements.

3. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

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

- Septic Tank – A septic tank provides passive primary treatment as the settleable solids in raw wastewater settle onto the bottom of the tank. At Sayersbrook, 5 septic tanks are installed, ranging in flow from 335 gpd to 3500 gpd. From the tanks, all flow will go into the lagoon.
 - The 335 gpd tank serves the restaurant, providing approximately 16 hours of retention time at peak flow of 500 gpd per square foot.
 - The 960 gpd tank serves the 8 cabins providing approximately 1 day of retention time at peak flow of 120 gpd per site.
 - The 2,400 gpd tank serves the 20 RV sites providing approximately 1 day of retention time at peak flow of 120 gpd per site.
 - The 3,500 gpd tank serves the 35 camp sites providing approximately 1 day of retention time at peak flow of 100 gpd per site.
 - The 720 gpd tank serves the 6 tree house sites, providing approximately 1 day of retention time at peak flow of 120 gpd per site.

Construction will cover the following items:

- ½ inch PVC pressure pipe from the existing septic tanks into the concrete manhole. From the manhole into the lagoon, it will be 8 inch PVC pipe.

- Lagoon- The lagoon cell will be constructed and sealed with a minimum of 12 inches of compacted clay. The basin is non-aerated and has a wastewater volume of 461,225 gallons.
 - The basin will have 3:1 sloping walls, with a 4 ft by 6 ft concrete pad on the floor of the lagoon. The lagoon floor will be approximately 132 ft by 202 ft.
 - The depth from the top of the berms to the lagoon floor will be 8 ft.
 - This provides approximately 58 days of retention at the peak design flow of 7,915 gpd and 156 days of retention at the design average flow of 2,951 gpd.
 - The berm width will be 8 ft.
 - 6 inch PVC pipe from the lagoon to the equalization grinder pump. The pipe will be set at 3 ft from the lagoon floor.
- Equalization pump- A simplex 2 hp grinder pump will be installed to move flows from the lagoon to the trash tank. Model WG20 or equivalent will be installed, which has a maximum capacity of 45 gpm. The remote timer for pumping will be initially set to 60 minutes on and 120 minutes off, with a high water level alarm installed.
 - 2 inch PVC pressure pipe will be installed from the pump to the trash tank.
- Trash Tank- A 1,000 gallon tank will be installed to provide flow equalization with a baffled outlet. This will provide approximately 8 hours of retention time at design average flow.
- Two 1,500 gallon tanks or 1 3,000 gallon tank will be installed. This will provide approximately 1 day of retention time at design average flow.
- Dosing Tank- A 1,500 gallon dosing tank will be installed. The duplex pumps will each be capable of 15 gpm at 122 ft total head. The floats will be set to dose in 80 gallon increments.
 - 2 return lines from the fields will go into the dosing tank, each set to a return flow of 2 gpm.
 - There is a counter in the dosing tank that will provide an estimate of daily flows into the subsurface system.
- Disc Filters- 2- 1 inch Netafim Disc filters, Webtrol Model DF150-140 or equivalent will be installed between the dosing tank and the field. Model DF150-140 can handle a flow ranges up to 26 gpm.
 - From the filters to the flow alternator, the pipes are 2 inch PVC.
- Flow Alternator Valve- the flow alternator will have 4 alternating systems, each will dose 2 zones. The pipe into the drip fields will be 1.25 inch.
- Subsurface Soil Dispersal System – The soils at this site are rated for 0.075-0.25 gpd/sf for an alternative system. The facility decided to use a design loading rate of 0.20 gpd/sf for the entire system. 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 Chris Chapman, with Show Me Soils On-Site Soils, Inc. on August 11, 2020.
 - Soils Report. In the soils investigation, there were 3 pits dug over the proposed site, excavated to 48 inches. The recommendation of the soil

scientist was to install treatment beforehand, such as a lagoon and to install a swale or curtain drain around the system.

- Soil test pit #1, located in a wooded area had an application rate at 6 inches of 0.25 gpd/sq ft and at 14 inches of 0.2 gpd/sq ft for a low pressure piping system. The soil has a moderate sink/swell rating with a USDA texture of silty loam/ silty clay loam soil.
- Soil test pit #2, located in a wooded area had an application rate at 6 inches of 0.25 gpd/sq ft and at 15 inches of 0.075 gpd/sq ft for a low pressure piping system. A claypan was present at 6 inches. The texture was described as silt at 6 inches and clay below the 6 inch claypan. The test pit had low to moderate sink/swell potential.
- Soil test pit #3, located in a wooded area had an application rate at 6 inches of 0.25 gpd/sq ft to 14 inches of 0.2 gpd/sq ft for a low pressure piping system. The soil has a moderate sink/swell rating with a USDA texture of silty clay/ silty clay loam soil.
- Drip – The facility has selected the NETAFIM subsurface drip dispersal system. The system will dose 8 zones at 0.2 gpd/sq. ft..
 - Each zone has 922 lf of piping covering approx.. 1,844 sq ft. for a total of 14,756 sq. ft.
 - At a dosing rate of 0.2 gpd/ sq ft at 1844 sq. ft, each zone will receive approx. 368.8 gpd. Each zone is approximately 77 ft long with 12 lines per zone set on 2 ft spacing.
 - 8 air release valves will be installed in the drip fields, one on each zone and 3 check valves per zone.
 - On the return line, there will be 24 air release valves and 22 check valves installed.
 - A 4 inch perimeter swale will be installed around the drip system to help prevent surface water from infiltrating the treatment system.
 - Solids will be removed from the tanks by a licensed hauler.
 - A generator is available onsite if needed for back-up power.

4. 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 the operating permit fee of \$150 has been submitted. Missouri State Operating Permit, General Permit MO-G823171, will be issued after receipt of the above documents. As of October 27, 2020, the operating permit fee of \$150 has not been received.

V. NOTICE OF RIGHT TO APPEAL

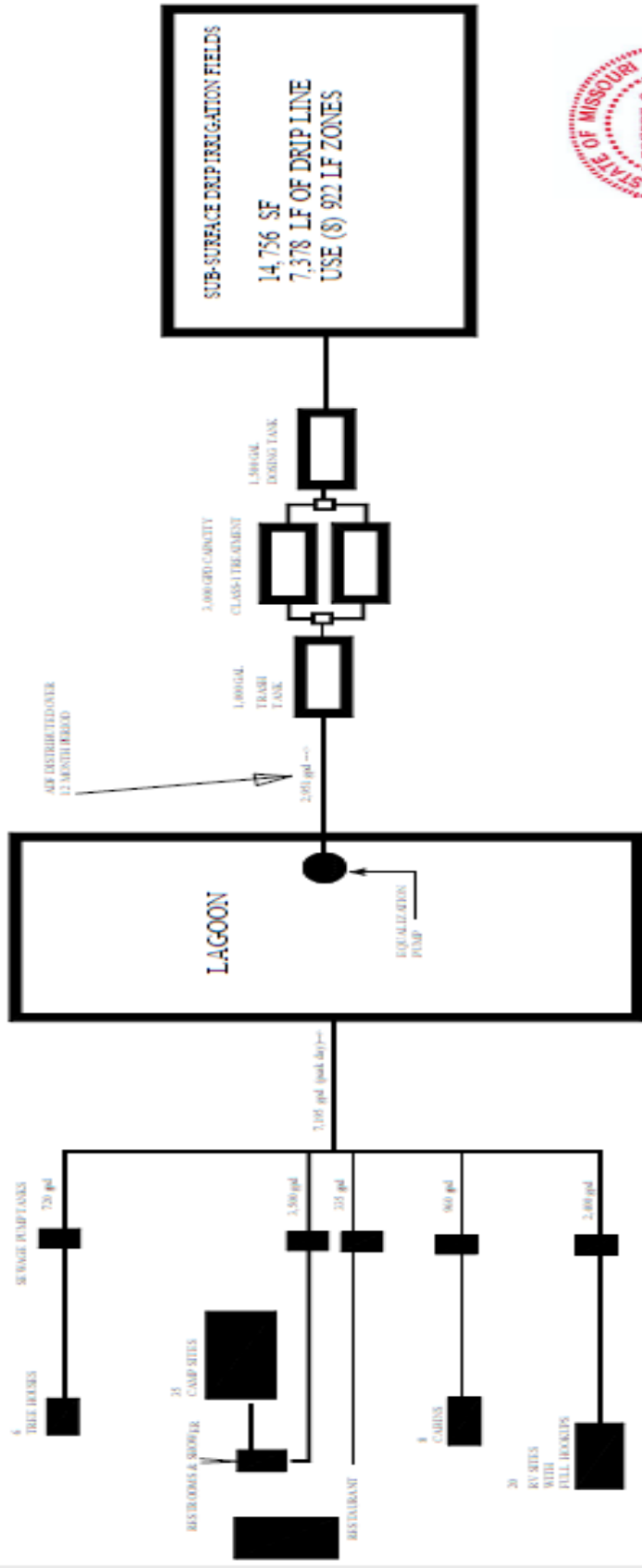
If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, 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:

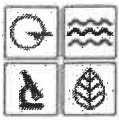
Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: <https://ahc.mo.gov>

Leasue Meyers, EI
Engineering Section
leasue.meyers@dnr.mo.gov

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

APPENDIX A: Process Flow Diagram





RECEIVED
SEP 21 2020

APPLICATION FOR CONSTRUCTION PERMIT –
WASTEWATER TREATMENT FACILITY

Water Protection Program

FOR DEPARTMENT USE ONLY	
APP NO.	CP NO.
FEE RECEIVED \$1000.00	CHECK NO. 1406
DATE RECEIVED 9-21-20	<i>RB</i>

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: _____
 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 Sayersbrook Camping & RV	2.2 ESTIMATED PROJECT CONSTRUCTION COST \$ 100,000
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2.3 PROJECT DESCRIPTION
The project consists of RV sites, camping sites, rental cabins and a restaurant. The domestic sewage will be pumped to a single cell lagoon operated as an equalization tank ahead of a subsurface drip irrigation system. This will be a non-discharge system.

2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
Sludge will be retained in the lift pump tanks and in the lagoon. Sludge will be pumped and hauled from concrete lift tanks as required.

2.5 DESIGN INFORMATION

A. Current population: _____; Design population: 127

B. Actual Flow: _____ gpd; Design Average Flow: 2951 gpd;
Actual Peak Daily Flow: _____ gpd; Design Maximum Daily Flow: 7915 gpd; Design Wet Weather Event: _____

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

NAME Sayersbrook Camping and RV		TELEPHONE NUMBER WITH AREA CODE 636-358-4925	E-MAIL ADDRESS samcoroama@yahoo.com	
ADDRESS (PHYSICAL) 11820 Sayersbrook Rd	CITY Potosi	STATE MO	ZIP CODE 63664	COUNTY Washington

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): 682425 Northing (Y): 4206708
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

3.3 Name of receiving streams: Ashly branch to Fourche Renault

4.0 PROJECT OWNER

NAME Wagner, Coroama, Neubert LLC		TELEPHONE NUMBER WITH AREA CODE 636-358-4925	E-MAIL ADDRESS samcoroama@yahoo.com	
ADDRESS 11820 Sayersbrook Rd	CITY Potosi	STATE MO	ZIP CODE 63664	

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 Wagner, Coroama, Neubert LLC		TELEPHONE NUMBER WITH AREA CODE 636-358-4925	E-MAIL ADDRESS samcoroama@yahoo.com	
ADDRESS 11820 Sayersbrook Rd	CITY Potosi	STATE MO	ZIP CODE 63664	

5.1 A letter from the continuing authority, if different than the owner, is included with this application. YES NO 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? YES 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? YES 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? YES 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? YES NO

D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? YES NO

6.0 ENGINEER

ENGINEER NAME / COMPANY NAME Robert S. Heine, P.E.		TELEPHONE NUMBER WITH AREA CODE 314-954-8360	E-MAIL ADDRESS bob_rshengr@yahoo.com	
ADDRESS PO Box 2515	CITY Hillsbroro	STATE MO	ZIP CODE 63050	

7.0 APPLICATION FEE

CHECK NUMBER 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
Sam Wagner

DATE
9/15/2020

TITLE OR CORPORATE POSITION
Registered Agent

TELEPHONE NUMBER WITH AREA CODE
636-358-4925

E-MAIL ADDRESS
samcoroama@yahoo.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.