#### **STATE OF MISSOURI**

#### DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



#### **CONSTRUCTION PERMIT**

CONSTI	
The Missouri Department of Natural Resour	ces hereby issues a permit to:
389 Nichol	HC Saint Louis, LLC I Mill Rd., Suite 100 klin, TN 37067
for the construction of (described facilities):	
See attached.	
Permit Conditions:	
See attached.	
Construction of such proposed facilities shall be in accordance with regulation promulgated thereunder, or this permit may be revoked	h the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and by the Department of Natural Resources (Department).
As the Department does not examine structural features of design of include approval of these features.	or the efficiency of mechanical equipment, the issuance of this permit does not
A representative of the Department may inspect the work covered Department will be contingent on the work substantially adhering t	by this permit during construction. Issuance of a permit to operate by the to the approved plans and specifications.
This permit applies only to the construction of water pollution cont	trol components; it does not apply to other environmentally regulated areas.
August 16, 2018 Effective Date	Edward B. Galbraith, Director, Division of Environmental Quality
August 15, 2020 Expiration Date	Chris Wieberg, Director, Water Protegron Program

#### **CONSTRUCTION PERMIT**

#### I. CONSTRUCTION DESCRIPTION

Installation of nine 750 gallon Ecopod treatment units with coarse filters, two 1000 gallon septic tanks, one 1,000 gallon storage tank, one 1000 gallon pump tank, and nine supply line Ecopod disc filters prior to subsurface dispersal. The drip field will be 1.1 acres.

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 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 Land Surveying and Engineering on June 11, 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. 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 <a href="mailto:dnr.mo.gov/env/wpp/epermit/help.htm">dnr.mo.gov/env/wpp/epermit/help.htm</a>. See <a href="mailto:dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm">dnr.mo.gov/env/wpp/epermit/help.htm</a>. See <a href="mailto:dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm">dnr.mo.gov/env/wpp/epermit/help.htm</a>.
- 6. 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 <a href="mailto:dnr.mo.gov/env/wpp/401/">dnr.mo.gov/env/wpp/401/</a> for more information.

#### 7. Upon completion of construction:

- A. Summit BHC Saint Louis, LLC will be 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; and
- C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(D).
- D. Submit Form B Application for an Operating Permit for Domestic or Municipal Wastewater along with the operating permit fee to the Central Office in Jefferson City. As this system meets the requirements for a general permit, request a MOG82300 permit, for land application of domestic wastewater.

#### IV. REVIEW SUMMARY

#### 1. CONSTRUCTION PURPOSE

This project is to eliminate an unpermitted 2 cell lagoon with a permitted, low maintenance no-discharge wastewater treatment system. The lagoon system is out-of-date and unable to provide treatment at the level that would meet current requirements. A closure plan will need to be submitted to the Northeast Regional Office for review and approval prior to and closure activities.

#### 2. FACILITY DESCRIPTION

This facility is a residential treatment center with 45 patients and employees. Domestic wastes include kitchen wastes.

Summit BHC is located at 22933 Hwy 61, Eolia, in Pike County, Missouri. The facility has a design average flow of 6100 and serves a population equivalent of approximately 61 people.

#### 3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is required to meet the requirements of MOG823 general permit with an expiration date of September 24, 2022.

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

The new no discharge facility is being designed for 6100 gpd and is anticipated to have a BOD loading of 8.85 lbs/day. Primary treatment is in two 1000 gallon septic tanks. Secondary treatment will occur in nine 750 gallon Ecopod treatment units. One 1000 gallon pump tank will be used above the soil dispersal area for further treatment of the wastewater.

This subsurface drip irrigation system will have 5 drip dispersal zones with 20 laterals. System will be dosed 10 times per 24 hours, each zone receiving 6 minutes per dose. Flow rate of emitters is 0.6 gph; emitters are spaced every 2 ft. The 0.9 acre drip field has the capacity for 6100 gpd. The dosing rate will be 0.153 gallons/day/ft2. The surface soils at the site are rated for 0.25 gallons/day/ft2 as determined from an on-site investigation completed by John Bauer, Soil Scientist with On-Site Soils, Inc. on October 16, 2016.

### 5. **OPERATING PERMIT**

An application for a General Operating Permit for Land Application of Domestic Wastewater was received and MOG823118 will be issued when a statement of work completed is received by the department. Operating permit application and fee were submitted with the construction permit.

Diane Reinhardt Engineering Section Diane.reinhardt@dnr.mo.gov

# MISSOURI DEPARTMENT OF NATURAL RESOURCES RECEIVED WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT! 1 2018

**WASTEWATER FACILITY** 

Water Protection Program

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APPLICATION OVERVIEW
The Application for Construction Permit – Wastewater Facility form is for construction pertaining to domestic wastewater treatment facilities, agrichemical facilities, and components thereof. This 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 #: Project #:
1.2 Is this an application for an agrichemical? ☐ YES (See instructions.) ☒ N/A
1.3 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?  ☐ YES Date of Approval: N/A
1.4 Has the department approved the proposed project's facility plan*?  ☐ YES Date of Approval: ☐ NO ☑ N/A (If Not Applicable, complete No. 1.5.)
<ul> <li>1.5 [Complete only if answered Not Applicable on No. 1.4] Is a copy of the engineering report* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application?</li> <li>☐ YES ☑ NO</li> </ul>
<ul> <li>1.6 Is a copy of the appropriate plans* and specifications* included with this application?</li> <li>✓ YES Denote which form is submitted: ✓ Hard copy ☐ Electronic copy (See instructions.)</li> <li>☐ NO</li> </ul>
1.7 Is a summary of design* included with this application? ☑ YES ☐ NO
<ul> <li>1.8 Is a general operating permit applicable?</li> <li>☐ YES Submit the appropriate operating permit application to the Regional Office at least 60 days prior to operation.</li> <li>☑ NO Enclose the appropriate operating permit application and fee submittal. Denote which form: ☑ B ☐ B2</li> </ul>
1.9 Is the facility currently under enforcement with the department or the Environmental Protection Agency?   YES  NO
1.10 Is the appropriate fee included with this application?  V YES  NO (See instructions for appropriate fee.)
* Must be affixed with a Missouri registered professional engineer's seal, signature and date.
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT
Summit BHC Saint Louis, LLC Sewer System Expansion
2.2 PROJECT DESCRIPTION
Project will be an expansion of a currently designed system. Previously designed system is under Construction Permit CP0001906. The previous project has not yet been constructed. The new design will expand upon the original design. New flow is 6100 gpd compared to the previous design flow of 4500. There will be 9 Ecopod treatment units instead of 6, and the drip field will be 0.91 acres. All other aspects of the project will generally stay the same.
2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
A. Current population: 10; Design population: 61
B. Actual Flow: 6,100 gpd; Design Average Flow: 6,100 gpd;
Actual Peak Daily Flow: 9,150 gpd; Design Maximum Daily Flow: 9,150 gpd;  Design Wet Weather Event:
2.5 ADDITIONAL INFORMATION
A. Is a topographic map attached?    YES NO
B. Is a process flow diagram attached? ☑ YES ☐ NO
\$ 50,000.00

3.0 WASTEWATER TREATMENT FACILIT	Υ					
Summit BHC Saint Louis, LLC		TELEPHONE NUMBER WITH AREA COD (636) 236-9578		tdalaviras@summitbhc.com		
ADDRESS (PHYSICAL) 22933 Highway 61	сіту Eolia		STATE MO	ZIP CODE 63344	COUNTY Pike	
Wastewater Treatment Facility: Mo-	(Outfall	Of )		1	- mad	
	, sw ½	4, Sec. 20 , T 52N	, R01W			
3.2 UTM Coordinates Easting (X): 39 15'35 For Universal Transverse Mercator (UTI	.05" North M), Zone 1	ning (Y): 91 02' 33.27" 5 North referenced to N	orth America	n Datum 1983 (	(NAD83)	
3.3 Name of receiving streams: No Dischar	ge				- Company of the Comp	
4.0 PROJECT OWNER						
Summit BHC Saint Louis, LLC		(877) 463-3553	REA CODE	jbarnett@sun	nmitbhc.com	
ADDRESS 389 Nichol Mill Road, Suite 100	CITY Franklin		STATE TN	ZIP CODE 37067		
5.0 CONTINUING AUTHORITY: Permaner and modernization of the wastewater collection			e continuing	authority for the	e operation, maintenance	
NAME	on system	TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Summit BHC Saint Louis, LLC	LOTY	(877) 463-3553	LOTATE	jbarnett@sun	nmitbhc.com	
ADDRESS 389 Nichol Mill Road, Suite 100	Franklin		TN	37067		
5.1 A letter from the continuing authority, if					YES NO NA	
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO					LNO	
A. Is a copy of the certificate of convenience		<del>-</del>		∐ YES 🛂	NO	
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHOR. Is a copy of the as-filed restrictions and c			IW/~	∕ES □NO		
B. Is a copy of the as-filed warranty deed, q     wastewater treatment facility to the associ	uitclaim de	ed or other legal instrur	nent which tr	ansfers owners	hip of the land for the	
C. Is a copy of the as-filed legal instrument	(typically th				ements for all sewers	
included with this application?  YES  D. Is a copy of the Missouri Secretary of Sta		ofit corporation certifica	te included w	ith this applicat	ion? YES NO	
	ate 3 Horipi	ont corporation certifica	io irioladea w	пт тио арриоа		
6.0 ENGINEER ENGINEER NAME / COMPANY NAME		TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS		
Kyle Pociask/Four Points Land Surveying & E	Engineerin	(573) 406-5533		kyle@fourpointssurvey.com		
ADDRESS 17 Northport Plaza	CITY Hannibal		MO STATE	2IP CODE 63401		
7.0 PROJECT OWNER: I hereby certify that	at I am fam	niliar with the information	contained ir	n this applicatio	n and to the best of my	
knowledge and belief such information is tru- Clean Water Law and all rules, regulations, of	e, complet	e, and accurate, and if g	ranted this p	ermit, I agree to	o abide by the Missouri	
Missouri Clean Water Law. I also understan	d the issua	ance of the construction	permit does	not guarantee t	the proposed wastewater	
treatment will meet the required effluent limit	lations of th	he issued Missouri State	Operating F	Permit for this fa	acility.	
PRINTED NAME			AND SOCIAL T	DATE		
Self Barnett		TELEPHONE NUMBER WITH A	551.0055	6/5/	18	
TITLE OR CORPORATE POSITION		6/5-20/-532	REACODE 39	IBAT DECE	Exsummit lak con	
1		MENT OF NATURAL R ON PROGRAM	ESOURCES		,	
P.O. BOX 176 JEFFERSON CITY, MO 65102-0176						
		END OF PART A.				
REFER TO THE APPLICATION O MO 780-2189 (12-15)	VERVIEW		THER PART	B NEEDS TO	BE COMPLETE. Page 2 of 3	

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: ☑ Domestic ☐ State/National Park ☐ Seasonal business ☐ Municipal ☐ Municipal with a pretreatment program or significant industrial users ☐ Other (explain)
8.2 Months when the business or enterprise will operate or generate wastewater:  ✓ 12 months per year ☐ Part of the year (list months):
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: 2 (Use additional pages if greater than two basins.) 1,000 gal septic tanks outside buildings
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 Width Depth 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 ft Minimum operating water level ft  Basin #2: Maximum operating water level ft Minimum operating water level ft
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)
10.2 Number of irrigation sites 1       Total Acres 0.91       Maximum % field slopes 5         Location:       ¼, NW       ¼, SW       ¼, 20       Sec. 52N       T 01W       R Pike       County 0.91       Acres         Location:       ¼,       ¼,       ¼,       T       R       County       Acres         Location:       ¼,       ¼,       ¼,       Sec.       T       R       County       Acres         (Use additional pages if greater than three irrigation sites.)
10.3 Type of vegetation: ☑ Grass hay ☐ Pasture ☐ Timber ☐ Row crops ☐ Other (describe)
10.4 Wastewater flow (dry weather) gallons per day: Average annual 6100  Seasonal Off-season
10.5 Land application rate (design flow including 1-in-10 year storm water flows):  Design: 89.30 inches/year 0.01 inches/hour 0.24 inches/day 1.71 inches/week  Actual: 133.95 inches/year 0.02 inches/hour 0.37 inches/day 2.57 inches/week
10.6 Total irrigation per year (gallons): Design: 2,226,500 gal Actual: 3,339,750 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:  ☑ Hydraulic Loading ☐ Other (describe) ☐ Nutrient Management Plan (N and P) If N and P is selected, is the plan included? ☐ YES ☐ NO

\* 1

## INSTRUCTIONS FOR COMPLETING APPLICATION FOR CONSTRUCTION PERMIT – WASTEWATER TREATMENT FACILITIES

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes the **required signature**.

**Note:** Use the form Application for Construction Permit – Sewer Extension, MO 780-1632, if **only** collection system component(s) are to be constructed. This form is available at dnr.mo.gov/forms/780-1632-f.pdf.

A land disturbance permit is required if construction will result in the disturbance of one or more acres of land. A land disturbance permit is available through the department's ePermitting system at <a href="mailto:dnr.mo.gov/env/wpp/epermit/help.htm">dnr.mo.gov/env/wpp/epermit/help.htm</a>. A permit fee in accordance with 10 CSR 20-6.011(2)(F)1. is required.

After receiving a complete application, the Department enters the application information into the Missouri Clean Water Information System. You may search for the status of a construction permit online at <a href="mailto:dnr.mo.gov/mocwis">dnr.mo.gov/mocwis</a> public/applicationInprocessSearch.do.

#### Part A – Basic Application Information

- 1.0 If any questions in this section are answered no, this application may be considered incomplete and returned to applicant.
- 1.1 Check the appropriate box. If the project is funded with federal or state monies, supply the funding agency name and project number.
- 1.2 Check the appropriate box. Agrichemical facilities complete sections 1.6, 1.10, 2.1, 2.2, 3.1-3.3, 5.0, 6.0, and 7.0.
- 1.3 Check the appropriate box. Provide the date of department approval for the antidegradation report. Include a copy of the approved *Water Quality and Antidegradation Review* with this application. Not every construction project may require an antidegradation review. For more information, guidance documents and forms concerning antidegradation visit <a href="https://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm">dnr.mo.gov/env/wpp/permits/antideg-implementation.htm</a>.
- 1.4 Check the appropriate box and provide the date of department approval. Per 10 CSR 20-8.110(3)(C), facility plans must be approved by the department prior to the submittal of plans and specifications and a construction permit application. "Facility plans must be completed for projects involving wastewater treatment facility projects and projects receiving funding through the grant and loan programs under 10 CSR 20-4" in accordance with 10 CSR 20-8.110(4)(A)4. The department has developed a fact sheet to aid in the development of an approvable facility plan. This document is available online at dnr.mo.gov/pubs/pub2416.htm.
- 1.5 Complete only if No. 1.3 is answered Not Applicable. Check the appropriate box. For wastewater treatment facilities with a design flow under 22,500 gallons per day, or gpd, an engineering report may be required by the department in accordance with 10 CSR 20-6.010(4)(D)1 and 10 CSR 20-8.020(3). The department will require an engineering report for any new wastewater treatment facilities and for any major modifications to an existing wastewater treatment facility.
- 1.6 Check the appropriate box. Provide a copy of the appropriate plans and specifications for department review when applying for a construction permit per 10 CSR 20-8.110(3)(C), 10 CSR 20-8.020(5) and 10 CSR 20-8.020(6). A Missouri registered professional engineering seal, signature and date is required on each sheet of the plans and the cover of the technical specifications.
  - The department will accept plans and specifications in electronic form on a CD and in the Adobe PDF searchable format. If the plans are scanned, set the resolution to a minimum of 200 dpi at 17 by 22 inches.
  - **Note:** Additional sets of plans and specifications may be required by the department for final approval and issuance of the construction permit. See 10 CSR 20-8.110(6)(A)1.
- 1.7 Check the appropriate box. A summary of design shall accompany the plans and specifications when applying for a construction permit, per 10 CSR 20-8.110(5) and 10 CSR 20-8.020(7). A fact sheet to aid in the development of an acceptable summary of design is available online at <a href="mailto:dnr.mo.gov/pubs/pub2417.htm">dnr.mo.gov/pubs/pub2417.htm</a>. For wastewater treatment facilities with a design flow under 22,500 gpd, a summary of design may not be required by the department.
- 1.8 Check the appropriate box. Include the applicable operating permit application when seeking a site-specific operating permit or modification of an existing operating permit. Facilities that qualify for a general operating permit may submit the operating permit application to the appropriate regional office at least 60 days prior to operation.
  - Form B for facilities ≤ 100,000 qpd is available online at dnr.mo.gov/forms/780-1512-f.pdf.
  - Form B2 for facilities > 100,000 gpd is available online at <a href="mailto:dnr.mo.gov/forms/780-1805-f.pdf">dnr.mo.gov/forms/780-1805-f.pdf</a>.

Include the appropriate fee with your application. For more fee information, visit: <a href="http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf">http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf</a>.

**\$200** for modifications to a Publicly Owned Treatment Works (POTW) operating permit accompanied by the appropriate operating permit form per 10 CSR 20-6.011(2)(H), if applicable.

**\$100** for modifications of name changes, address changes, or other nonsubstantive changes or for a modification of a general permit accompanied by the appropriate general permit form per 10 CSR 20-6.011(2)(H)1., if applicable.

25 Percent Annual Operating Fee for modifications to a Non-POTW operating permit accompanied by the appropriate operating permit form per 10 CSR 20-6.011(2)(H)2., if applicable.

Annual Operating Fee for issuing a new Non-POTW operating permit accompanied by the appropriate operating permit form, if applicable.

- 1.9 Check the appropriate box. More information about the Compliance and Enforcement Water Protection Program is available online at <a href="mailto:dnr.mo.gov/env/wpp/enf/index.html">dnr.mo.gov/env/wpp/enf/index.html</a>.
- 1.10 Check the appropriate box. Include the fee with your application.

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- \$1,000 for a wastewater treatment facility with a design flow of less than 500,000 gpd per 10 CSR 20-6.011(2)(K)1.
- \$3,000 for a wastewater treatment facility with a design flow of 500,000 gpd or greater per 10 CSR 20-6.011(2)(K)2.

**Note:** Incomplete permit applications or related engineering documents will be returned by the department if they are not completed in the time frame established by the department in a comment letter to the project owner. Permit fees for returned applications shall be forfeited. See 10 CSR 20-6.010(4)(E). Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited. See 10 CSR 20-6.011(5)(B).

- 2.1 Provide the name of the proposed construction project.
- 2.2 Briefly describe the construction project by providing the number and capacity of each new unit.
- 2.3 Briefly describe the method of sludge handling, use and disposal at the treatment facility.
- 2.4 Provide the project design information and when required in the units specified.
  - A. Provide the current population and the design population to be served by the wastewater treatment facility.
  - B. Provide the estimated design flow information in accordance with 10 CSR 20-8.110(4)(C)4.A.
  - Design average flow The design average flow is the average of the daily volumes to be received for a continuous 12 month period expressed as a volume per unit time. However, the design average flow for facilities having critical seasonal high hydraulic loading periods (e.g., recreational areas, campuses and industrial facilities) shall be based on the daily average flow during the seasonal period. (Expected daily average flow the facility is designed to treat.)
  - **Design peak hourly flow** The design peak hourly flow is the largest volume of flow to be received during a one hour period expressed as a volume per unit time.
  - **Design maximum daily flow** The design maximum daily flow is the largest volume of flow to be received during a continuous 24-hour period expressed as a volume per unit time. (Flow during the peak wet weather event the facility is designed to treat.)
  - Design Wet Weather Event -The wet weather event chosen for the design.
- 2.5 Provide the additional project information.
  - A. Attach a topographic map of the area extending at least one mile beyond the facility property boundaries. This map must show the outline of the facility and the following information. A topographic map is available online at <a href="https://dnr.mo.gov/internetmapviewer">dnr.mo.gov/internetmapviewer</a> or from the Department of Natural Resources' Missouri Geological Survey in Rolla, Mo., at 573-368-2125. (Submittals of more than one map may be necessary to show the entire area.)
    - 1. The area surrounding the wastewater treatment facility, including all unit processes.
    - 2. The major pipes or other structures through which wastewater enters the treatment facility and the pipes or other structures through which treated wastewater is discharged from the treatment facility. Include outfalls from bypass piping, if applicable.
    - 3. The actual point of discharge.
    - 4. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment facility and 2) listed in public record or otherwise known to the applicant.
    - 5. Any areas where biosolids produced by the treatment facility are treated, stored, or disposed.
    - 6. If the treatment facility receives waste classified as hazardous under the Resource Conservation and Recovery Act, or RCRA, by truck, rail, or special pipe, show on the map where hazardous waste enters the treatment works and where it is treated, stored or disposed.
    - 7. Outline any wastewater land application sites.
  - B. Provide a process flow diagram with the influent and effluent design average flow and peak flow capabilities. Also, depict all of the treatment facility components and the corresponding hydraulic capacities of each component. In addition, include all recycle flows in the diagram. If land application is used, depict all irrigation equipment and application sites.

- 2.6 Provide the estimated project construction cost. This information will be useful to the department in conducting affordability analyses.
- 3.0 Complete the Wastewater Treatment Facility information. Include the Missouri State Operation Permit number, outfall number, physical location, and other appropriate contact information.
- 3.1 Provide the project legal description. The department's mapping system is available online at <a href="mailto:dnr.mo.gov/internetmapviewer">dnr.mo.gov/internetmapviewer</a>.
- 3.2 A Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates.
- 3.3 Provide the name of the receiving stream(s) to which the discharge is directed and any subsequent tributary until a continuous flowing stream is reached.
- 4.0 Complete Project Owner information. Include the legal name, address, phone number with area code and email address.
- 5.0 Complete Continuing Authority contact information. If same as the Project Owner, write "Same as above".

  Include the permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the wastewater collection system. See 10 CSR 20-6.010(3) for the regulatory requirement regarding continuing authority.
- 5.1 Check the appropriate box. Include a letter signed by the continuing authority (if not same as the project owner) stating they will "accept, operate and maintain" the wastewater treatment facility after successful construction. The continuing authority may also complete the Continuing Authority and Receiving Wastewater Treatment Facility Acceptance form in lieu of a letter.
- 5.2 Complete if the continuing authority is a Missouri Public Service Commission, or PSC, regulated entity. See 10 CSR 20-6.010(3)(B)3 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with a PSC entity as owner and continuing authority.
- 5.3 Complete if the continuing authority is a property owners association. See 10 CSR 20-6.010(3) (B)5 for more information. This information is not necessary for existing wastewater treatment facilities currently permitted with the property owners association as owner and continuing authority.
- 6.0 Complete Engineer contact information.
- 7.0 All applications must be signed as follows in accordance with 10 CSR 20-6.010(2)(B) and the signatures must be original:
  - A. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
  - B. For a partnership or sole proprietorship, by a general partner or the proprietor.
  - C. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

#### Part B - Land Application

Complete Part B only if the proposed construction project includes land application of wastewater from a treatment facility.

- 8.0 Provide the applicable Facility Information land application information. Check the appropriate boxes.
- 9.0 Provide the applicable Storage Basins information. Check the appropriate boxes.
  - Freeboard The depth from the top of the berm to the emergency spillway. Minimum depth is one foot.
  - Total Depth The depth from the top of the berm to the bottom of the basin.
  - Safety Volume The depth to contain the 25-year, 24-hour storm event. Minimum depth is one foot.
  - Maximum Operating Water Level The water level at the bottom of the safety volume. Minimum depth is two feet below
    the top of the berm.
  - Minimum Operating Water Level The water level above the bottom of the lagoon basin for seal protection. Minimum depth is two feet and may be greater when additional treatment volume is included.
  - Total Depth is from the top of the berm to the bottom of the lagoon basin including freeboard.
- 10.0 Provide the applicable Land Application System information. Check the appropriate boxes.
- 10.8 Check the appropriate box. If the land application rate is based on a Nutrient Management Plan, or N and P, include the plan with this application for department review.

Mail the completed form and applicable fee to the department.

If there are any questions concerning this form, please contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300 or visit <a href="mailto:dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm">dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm</a>.