STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



GENERAL PERMIT for SEWER EXTENSION CONSTRUCTION

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

Construction Permit ID:	MOGC00788
Title of Project:	Arrowhead Lake Estates - Southwest
Owner:	Jehoval-Jireh Trust
Address:	5707 Open Gate Dr.
	Columbia, MO 65201

The project will also include general site work appropriate to the scope and purpose of the project and will include all the necessary appurtenances to make a complete and usable collection system. The construction of this project will be in the vicinity of the county below and discharge to Receiving Permit ID below:

County: Boone Receiving Permit ID: MO0087173

for the construction of (described construction project):

Arrowhead Lake Estates Southwest - Construction of approximately 1,257 lf of 3-inch SDR-21 PVC force main and 733 lf of 2-inch SDR-21 PVC force main with 9 private grinder pump connections to serve 9 residential lots with a combined design average flow of 5,400 gpd.

The project is in the vicinity of Route K and Arrowhead Lake Dr. in Columbia, Boone County and discharges to an existing a 6-inch force main with a capacity of 178 gpm to be treated at BCRSD South Route K WWTP, MO-0087173. Joe Foster, Executive Director of the Boone County Regional Sewer District, provided WWTF acceptance and continuing authority acceptance of the public force main in a letter dated August 13, 2024.

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.

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

November 14, 2024 Issue Date

John Hoke, Director Water Protection Program

November 13, 2026 Expiration Date

APPLICABILITY

- 1. This permit authorizes the construction of gravity sewer extensions, force mains, and lift stations. Non-earthen flow equalization storage basins at lift stations and inline storage, which flows back into the lift station or collection system, are also included.
- 2. The Missouri Department of Natural Resources may require a site-specific sewer extension construction permit due to compliance and enforcement actions in accordance with 10 CSR 20-6.010(13)(C).
- 3. This permit does not apply to:
 - A. Earthen storage basins;
 - B. Exempt projects in accordance with 10 CSR 20-6.010(1)(B), 10 CSR 20-6.010(5)(B), and RSMo 644.051 unless requested by the applicant or required by enforcement.

PREREQUISITES:

- 1. The Sewer Extension Construction Permit application, appropriate fee, and documentation in accordance with 10 CSR 20-6.010(5)(G).
- 2. Submit the Sewer Extension Construction Permit application at least sixty (60) days in advance of the start of construction in accordance with 10 CSR 20-6.010(5)(F).
- 3. Submit an electronic copy of the construction permit application and documents to <u>DNR.WPPEngineerSection@dnr.mo.gov</u> in accordance with 10 CSR 20-6.010(5)(G)3.
- 4. The plans and specifications, each signed, sealed, and dated by a professional engineer registered in the State of Missouri in accordance with 10 CSR 20-8 and 10 CSR 20-6.010.
- 5. The Design Certification form, Engineering Report, or Summary of Design, signed, sealed, and dated by a professional engineer registered in the State of Missouri, certifying the design of the system is in accordance with 10 CSR 20-6 and 10 CSR 20-8.
- 6. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting the wastewater for treatment and indicating the permitted treatment facility has the available capacity.
- 7. A statement from the continuing authority, as defined in 10 CSR 20-6.010, accepting responsibility for the operation and maintenance of these facilities.

PERMIT CONDITIONS:

- 1. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request.
- 2. The construction must be in accordance with the final plans and specifications received by the Department. Revisions that affect capacity, flow, or system layout must be approved by the Department prior to construction.

PERMIT CONDITIONS: (continued)

- 3. If construction will incorporate minor changes from previously submitted plans and specifications (i.e., changes that do not affect the capacity, flow, or system layout), submit an electronic copy of the as-built plans and specifications in accordance with 10 CSR 20-8.110(11).
- 4. State and Federal Law does not permit bypassing of raw wastewater; therefore, the applicant must take steps 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 regional office per 10 CSR 20-7.015(9)(E) or through the Online Bypass/SSO Reporting service on the Missouri Gateway for Environmental Management (MoGEM) portal found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem.

See <u>https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988</u> for more information.

- 5. Protection of drinking water supplies must meet the requirements of 10 CSR 20-8.120(5).
 - A. 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.
 - B. Lay sewers at least 50 feet (50') in a horizontal direction from any existing or proposed public water supply well or other water supply sources or structures.
- 6. Position manholes so that the top access is at or above grade level.
- 7. In addition to the requirements for a construction permit, see 10 CSR 20-6.200 for land disturbance requirements 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. Applicants shall obtain land disturbance permits through the Department's ePermitting system, available online at https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-</u> <u>certification-engineering-fees/stormwater/construction-land-disturbance</u> for more information.

8. Entities applying for funding under 10 CSR 20-4, "Grants and Loans" will need to comply with those requirements in addition to the requirements of 10 CSR 20-8.

PERMIT CONDITIONS: (continued)

9. The Department may require a United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) or a permit waiver for the activities described in this permit. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S., then a 404/401 is required. Fulfillment of these requirements is necessary before the permit is considered valid. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the Department's Operating Permits Section at 573-522-4502 for more information.

See <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.

- 10. If this project eliminates a wastewater treatment facility under the jurisdiction of the Department, then the applicant shall submit a full closure plan with a Facility Closure Request Form, <u>Form MO 780-2512</u>, to the Department's appropriate <u>regional office</u> for review and approval. In accordance with 10 CSR 20-6.010(12), the closure plan must meet the requirements outlined in Standard Conditions Part III of the Missouri State Operating Permit. Closure shall not commence until the Department approves the submitted closure plan.
- 11. If this project is part of a project to resolve an enforcement action or is receiving funding from the Department, submit a <u>statement of work complete</u> following the completion of construction.
- 12. Applicants may submit, prior to the expiration date of this permit, a written request that additional time is needed in accordance with 10 CSR 20-6.010(5)(H)3.

Image: Solution of the properties
APPLICATION FOR CONSTRUCTION PERMIT – FEE RECEIVED CHECK NO. NOTE ► Please Read the accompanying instructions before completing this form DATE RECEIVED DATE RECEIVED 1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.) Project #: 1.1 Is this a Federal/State funded project? YES N/A Funding Agency: Project #: 1.2 Has the Department of Natural Resources approved the proposed project's engineering report? N/A N/A 1.3 Is a copy of the appropriate plans* and specifications* included with this application? VES NO 1.4 Is a summary of design* included with this application? VES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? VES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? VES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? VES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? VES NO * Must be affixed with a Missouri registered professional engineer's seal, signature and date. *
AFFEIGATION FOR CONSTRUCTION FERMING SEWER EXTENSION DATE RECEIVED NOTE ► Please Read the accompanying instructions before completing this form 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 Department of Natural Resources approved the proposed project's engineering report*? N/A N/A 1.3 Is a copy of the appropriate plans* and specifications* included with this application? N/A N/A 1.3 Is a summary of design* included with this application? YES NO 1.4 Is a summary of design* included with this application? YES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? YES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? YES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? YES NO 1.5 Is the appropriate fee or JetPay confirmation included with this application? YES NO * Must be affixed with a Missouri registered professional engineer's seal, signature and date. *
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 ☐ YES Date of Approval: ☐ NO ☑ N/A 1.3 Is a copy of the appropriate plans* and specifications* included with this application? ☑ YES ☐ NO If the project is using standard specifications, name of community: Boone County Regional Sewer Dist City of Columbia 1.4 Is a summary of design* included with this application? ☑ YES ☐ NO 1.5 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.
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2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT
Arrowhead Lake Estates - Southwest, Sanitary Sewer
ADDRESS CITY STATE ZIP CODE COUNTY
3151 W RTE K Columbia MO 65203 Boone 2.2 Legal Description: 1⁄4, 1⁄4, 1⁄4, Sec.9 , T47 , R 13
2.2 Legal Description. 74, 74, 74, 060.9 , 147 , 1415
2.3 Project Components (check all that apply): ☐ Gravity sewers ☐ Pumping stations ♀ Force mains ☐ Alternative sewer system ☐ Other (Describe below.)
2.4 PROJECT DESCRIPTION 9 Lot Estate residential subdivision with private grinder basin pump packages at each lot with common public force main, pumping to
existing force main.
733 LF of 2" PVC force main 1257 LF of 3" PVC force main
9 lots, each with their own 2hp grinder pump
2.5 DESIGN INFORMATION A. Population or number of lots to be served by this extension: 9 residential lots
B. Estimated flow to be contributed by this extension: Design Average Flow: 5400 gpd Design Peak Hourly Flow: 960 gph
C. Industrial Wastes: Type: N/A Flow: gpd
D. Receiving Sewer: Size:6" forc inches Capacity:178 gpm
E. Does this project (check all that apply):
Connect to an existing treatment plant Resolve enforcement issue Eliminate or consolidate an existing treatment plant
F. Estimated number of onsite systems being removed:0
G: Estimated costs associated with piping: \$ 130,000 Estimated costs associated with lift station(s): \$ 90,000
3.0 PROJECT OWNER
NAME TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS
JEHOVAH-JIREH TRUST 317-997-4898 lisajp8@gmail.com
5704 Open Gate Dr. Columbia MO 65201
CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED AGENT
Lisa Porter MO 780-1632 (10-22)

4.0 CONTINUING AUTHORITY: A continuing for ensuring compliance with the permit requi Continuing authority should be a relatively pe when needed, of the permitted facility or active hired by the permittee to sample or operate a analytical laboratory. To access the regulator <u>Water Commission Chapter 6</u> . A continuing a (SoS's) webpage: <u>Missouri Secretary of State</u> required to register with the SoS.	rements a rmanent e rity. A cont ind mainta y requirem authority's	nd provide c ntity respon tinuing autho in the system nent regardir name must	continuous s sible for the prity is not, h m for a defin ng continuin be listed exa	table oversi ongoing op nowever, an ned time per g authority, actly as it ap	ght of the permitted facility or activity. The eration, maintenance and modernization, entity or individual that is contractually iod, such as a certified operator or 10 CSR 20-6.010(2), please visit <u>Clean</u> opears on the Missouri Secretary of State's
NAME			UMBER WITH A	REA CODE	EMAIL ADDRESS
Boone County Regional Sewer District		573-443-27	74		DCunningham@bcrsd.com
ADDRESS 1314 N 7th St	сіту Columbia			STATE MO	ZIP CODE 65201
CHARTER NUMBER (SECRETARY OF STATE)	oolumbia				
4.1 Has appropriate continuing authority acce A letter from the continuing authority acceptin different than the original owner of the constr Treatment Facility Acceptance" Form 780-25 5.0 ENGINEER	ng respons uction), or	sibility for cor a properly ∈ ΈS □ NC	ntinued main executed "Co D DN/A	ntenance of ontinuing Au	uthority and Receiving Wastewater
ENGINEER NAME / COMPANY NAME Andrew T. Greene / Crockett Engineering		TELEPHONE N 573-447-02	IUMBER WITH A	REA CODE	EMAIL ADDRESS agreene@crockettengineering.com
ADDRESS	CITY		JL	STATE	ZIP CODE
1000 W. Nifong Blvd. Bldg #1	Columbia	A:		МО	65203
6.0 RECEIVING WASTEWATER TREATME	NT FACIL		UMBER WITH A	REA CODE	EMAIL ADDRESS
South Route K. Waste Water Treatment Plan	t	573-443-27	74		DCunningham@bcrsd.com REMAINING CAPACITY (GPD)
MISSOURI STATE OPERATING PERMIT # MO-0087173		Boone	COUNTY Boone		62.000
 6.1 If different from the owner, has a letter be accept the expanded flow or has a properly of MO 780-2584 form been provided? 6.2 A letter from the receiving wastewater tree 	executed C	Continuing A	uthority and	Receiving	Wastewater Treatment Facility Acceptance
YES NO ✓ N/A			ed by the P Yes – Date	ublic Servic	e Commission (PSC) for sewer activities, a □ No ☑ N/A
Certificate of Convenience and Necessity ha OPTIONAL QUESTIONS REGARDING MIL	And the second s		Tes – Dale		
Have you or an immediate family member ev					
U.S. Armed Forces?			□ Y	'es	□ No
If yes, would you like information about milita in Missouri?	services	<u>ا</u> ا	'es	No	
7.0 Application Fee		-			
Check Number			-		n Number 20057093
8.0 PROJECT OWNER: I certify under penal supervision in accordance with a system des submitted. Based on my inquiry of the person gathering the information, the information su aware there are significant penalties for subr violations.	signed to a n or perso bmitted is,	ssure qualifi ns who man to the best	ed personn age the sys of my knowl	el properly g tem, or thos edge and be	gather and evaluate the information e persons directly responsible for elief, true, accurate and complete. I am
that Portin					
PRINTED NAME					DATE 8/26/24
JEHOVAH-JIREH TRUST, Lisa Porter		TELEPHONE I	NUMBER WITH A	REA CODE	EMAIL ADDRESS
Trustee		317-997-48			
Mail completed copy to:	8		Submit completed electronic copy to:		
MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PO BOX 176 JEFFERSON CITY, MO 65102-0176			Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov		

MO 780-1632 (10-22)

annlie		ESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is of the proposed sewer extension.	orouny r	101
ippili	REGULATION	of the proposed sewer extension.	YES	N/A
	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	Π	$\overline{\mathbf{V}}$
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?	$\overline{\mathbf{V}}$	
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?	\checkmark	
1.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?	\square	
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?	$\overline{\mathbf{V}}$	
6.	8.120(3) (A)1	Is all sewer pipe constructed with a slope to obtain mean velocities of not less than 2 feet per second?	\checkmark	
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	\checkmark	
3.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?	\checkmark	
9.	8.120(4)(A)	Are manholes located at the end of each line, at all changes in grade, size or alignment and at all intersections?		V
10.	8.120(4)(C)	Are manholes at least 42 inches in diameter with a clear opening of 22 inches on sewer line larger than 8"?		V
11.	8.120(4)(C)	Where cleanouts are used at the end of a lateral instead of a manhole, they are a minimum diameter of 8 inches or larger and equal to the diameter for pipes < 8"?		V
12.	8.120(4)(E)	Are the manholes watertight, constructed and installed in accordance with the manufacturer's recommendations and procedures?		
13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?		\checkmark
14.	8.120(5)(A)	Is the sewer free from physical connections to a potable water supply system and no water pipes come in contact with a sewer manhole?		
15.	8.120(5)(B)	Are sewers and manholes located at least 50 feet horizontally from any existing or proposed water supply well, sources, structures?	\checkmark	E
10.0	PRESSURE SEWE	RS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST	Car (C	
	REGULATION		YES	N/A
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?	\checkmark	
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?	\checkmark	
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?	\checkmark	
19.	8.125(5)(B)2.	Are isolation valves located: upstream of major pipe intersections; both sides of stream, bridge and RR crossings; at terminal end of system?	\checkmark	
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?	\checkmark	Г
21.	8.125(5)(D)1.A	Do simplex grinder pump stations service only a single equivalent dwelling unit (EDU)? i.e. 1 residence – 1 grinder pumpt.	$\overline{\mathbf{V}}$	
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		
24.	8.125(5)(D)4.	Do grinder pump stations have shutoff valves, check valves and anti-siphon valves (where siphoning could occur) that are accessible from the ground surface?	\checkmark	E
25.	8.125(5)(D)7., 8.130(3)(B)2.	Are units serviceable and replaceable under wet conditions without electrical hazard and is electrical equipment suitable for hazardous locations (National Electrical Code, Class I, Group D, Division 1 location)?	\checkmark	
26.	8.125(5)(D)8., 8.125(2)(F)6.	Are provisions in place to avoid interruption of service due to mechanical or power failure by providing standby power, storage capacity, or interconnection with another disposal	\checkmark	
20.	0.0000002 - 68	system?		
20.	8.125(6)(D)	In a STEP system is at least one septic tank (1,000 gallons or more) provided for each EDU with 20% of tank volume dedicatied to freeboard and ventillation?		

MO 780-1632 (10-22)

11.0 PUMP STATION CHECKLIST									
	REGULATION				4	YES	N/A		
29.	8.125(7)(C)	Is the minimum diameter sewer main pipe and service line of STEG sewer at least 4"?					\checkmark		
30.	8.130(2)(A) 8.140(2)(B)	Is the pump station designed to withstand the 100-year flood?				\checkmark			
31.	8.130(3)(A)	Is the dry well completely separate from the wet well and is a suitable and safe means of access provided to each?					\checkmark		
32.	8.130(3)(B)	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors provided?					\checkmark		
33	8.130(3)(D)	Are valves located outside wet well unless integral to a pump or its housing?				\checkmark			
34.	8.130(3)(F) 8.140(8)(J)	Do wet and dry wells have separate ventilation systems?					\checkmark		
35.	8.130(3)(G)	Does all potable w	ater brought to pump s	tations comply with 8.1	140(7)(D)?		\checkmark		
36.	8.130(6)	Is an alarm system	n provided with uninterr	upted power?			\checkmark		
37.	8.130(7)(A)	Is there 2 hours retention of the peak hourly flow for a design flow > 100,000 gpd or 4 hrs retention of the peak hourly flow for a design flow < 100,000 gpd?					\checkmark		
38.	8.130(7)(B)	Are there independent utility substations provided for emergency power capable of starting and operating the pump station at its rated capacity?					\checkmark		
39.	8.130(8)(A)		elocity of ≥ 2 ft/s maintain				\checkmark		
40.	8.130	Are there complete operation instructions for the pumpting stations provided that include emergency procedures, maintenance schedules, special tools and spare parts that may be							
12.0 S	UCTION LIFT PU	necessary? MP AND SUBMER:	SIBLE PUMP STATION	CHECKLIST			11/12/11		
	REGULATION			and a second		YES	N/A		
41.	8.130(4)	Are the suction lift	pumps of the self primi	ng or vacuum priming	type?		\checkmark		
42.	8.130(4)(A)	Is the combined total of dynamic suction lift at the "pump off" elevation and required net positive suction head at design operating conditions less than or equal to 22 feet?							
43.	8.130(4)(B)	Are there dual vacuum pumps capable of removing air from the suction lift pump?							
44.	8.130(5)(A)	Are submersible pumps readily removable and replaceable without personnel entering, or					Constant of the		
disconnecting any pipe in the wet well?									
13.0 SEWER EXTENSION CHECKLIST CERTIFICATION STATEMENT For any questions answered "N/A" provide an explanation. Also provide any useful general comments regarding design for review engineer.									
N/A are clearly not applicable to private grinder									
	•	-							
pump station on new shared force main									
511	areu iorce ma	alli							
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
OF MISSOUTH									
Missouri Professional Engineer's seal, signature and date:									
Misso	uri Professional Er	ngineer's seal, signa	ature and date:	ANDREW					
				(A	P				
	NUMBER 1 PE-202000000								
	SER DA DONY								
Name: Andrew T. Greene									
Address: 1000 W. Nifong Blvd. Building 1									
City:C	Columbia		State: MO	ZIP Code: 65203					
Telep	Telephone Number with Area Code: 573-447-0292 Email agreene@crockettengineering.com								
MO 780-1632 (10-22)									

#### INSTRUCTIONS FOR COMPLETING APPLICATION FOR CONSTRUCTION PERMIT – SEWER EXTENSION

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes the **required signature**. The fee for a sewer extension construction permit is \$300.

In accordance with Missouri State law RSMo 644.051.3.(2), sewer extension projects installing up to a total of 1,000 linear feet of gravity sewer or force main with less than two pump stations are exempt from obtaining a construction permit. Since these projects are exempt, a construction permit will not be issued for this activity and completion of this form is not required.

Note: Use the form Application for Construction Permit – Wastewater Treatment Facility Application for Construction Permit – Sewer Extension MO 780-1632, if any wastewater treatment component(s) are to be constructed.

A land disturbance permit is required if construction will result in the disturbance of one or more acres of land. A land disturbance permit (MO-RA00000) is available through the department's ePermitting system at <u>ePermitting Splash Page</u>. A permit fee in accordance with 10 CSR 20-6.011(2)(E) 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 <u>MoCWIS Application Search</u>.

- 1.1 Check appropriate box. If the project is funded with federal or state monies, supply the funding agency name and project number.
- 1.2 Check appropriate box and provide the date of department approval. The department has developed a fact sheet to aid in the development of an approvable engineering report, <u>Engineering Report Guidance for Collection Systems, Fact Sheet--PUB2415</u>. This document is available online at <u>Engineering Report Guidance for Collection Systems With a Design Flow of 22,500 Gpd or Greater</u>. Engineering report exemptions are listed in 10 CSR 20-6.010(4)(B). Per 10 CSR 20-8.110(2), engineering reports must be approved by the department prior to the submittal of plans and specifications and a construction permit application.
- 1.3 Check 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 and 10 CSR 20-6.010. A Missouri registered professional engineering seal, signature and date is required on each sheet of the plans and the cover of the technical specifications. An electronic copy of the construction permit application and the information listed below in Portable Document Format (PDF) searchable format or department approved equivalent per 10 CSR 20-6.010(5)(G), along with one paper copy for projects not seeking department funding or two paper copies for projects seeking department funding under 10 CSR 20-4. If the project is relying on approved standard specifications from a particular municipality, provide the name of the community. The communities with department-approved standard specifications is available online at <u>Wastewater Construction Permits and Engineering Regulations</u>
- 1.4 Check appropriate box. A summary of design shall accompany the plans and specifications when applying for a construction permit per 10 CSR 20-8.110. The department has developed a fact sheet to aid in the development of an acceptable summary of design, <u>Summary of Design Guidance, Fact Sheet--PUB2417</u>. This document is available online at <u>Summary of Design Guidance for Wastewater Treatment Facilities PUB2417</u>.
- 1.5 Check the appropriate box. Include fee with application per 10 CSR 20-6.011(2) and <u>Wastewater Treatment Facility Permit</u> Fees -- PUB2564.
- Note: The department returns incomplete construction permit applications and related engineering documents and the application forfeits the fees. See 10 CSR 20-6.011(5)(A). The applicant forfeits the fees when the applicant withdraws construction applications. See 10 CSR 20-6.011(5)(B).2.1. Provide the project name and location by street name or address.
- 2.1. Provide the project name and location by street name or address.
- 2.2 Provide the project legal description. The department's mapping system is available online at MAPIT ARCGIS.
- 2.3 Check all of the applicable boxes.

The department considers anything other than a gravity sewer system to be an alternative sewer system. Examples of these systems are grinder pump pressure sewers, septic tank effluent pump, or STEP, sewers, septic tank effluent gravity, or STEG, sewers or small diameter gravity sewers.

- 2.4 Briefly describe the project by providing the following information:
  - A. Total number of manholes.
  - B. Size of sewers and the total linear feet of each size.
  - C. Number of lift stations and design average flow and peak hourly flow capacities of each lift station.
  - D. Size and length of force mains.
  - E. Alternative sewer size and length, plus the number of components (e.g. septic tanks, grinder pumps, etc.)
- 2.5 Provide the project design information and when required in the units specified:
  - A. Provide the population or number of lots to be served by the proposed sewer extension.
  - 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.
    - 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.
  - C. Provide the type and flow in gallons per day of industrial wastes received by the propose sewer extension.

- D. Provide the receiving sewer size in inches and capacity in gallons per minute.
- E. Check all of the applicable boxes.
- F. Provide an estimate of the number of onsite systems decommissioned as a result of the project.
- G: Provide estimated cost (design, materials, land, and labor) for installation of piping and pump station(s).
- 3.0 Project Owner Provide the legal name, mailing address, phone number and email address of the owner of the regulated activity or discharge. The owner identified in this section and subsequently reflected on the certificate page of the operating permit should be the owner of the regulated activity/discharge being applied for and is not necessarily the owner of the real property on which the activity or discharge is occurring. Also provide Charter Number of Project Owner from Secretary of State or name of Registered agent to comply with 10 CSR 20-6.010(2)(E) which states: "Private corporations which are not incorporated under the laws of Missouri shall be represented by a registered agent in the state of Missouri before a construction permit or an operating permit will be issued by the department."
- 4.0 Continuing Authority A continuing authority is a company, business, entity, or person(s) that will be legally responsible for ensuring compliance with the permit requirements and provide continuous stable oversight of the permitted facility or activity. The Continuing authority should be a relatively permanent entity responsible for the ongoing operation, maintenance and modernization, when needed, of the permitted facility or activity. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To view the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit <u>Department of Natural Resources Division 20-Clean Water Commission Chapter 6-Permits</u>. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage: <u>Missouri Secretary of State Business Entity Search</u>, unless the continuing authority is an individual(s), government entity, or otherwise not required to register with the SoS. Provide charter number listed on SoS's webpage, if applicable. If the Continuing Authority is the same as the Project Owner, write "Same as above".
- 4.1 Check appropriate box. Include a letter signed by the continuing authority (if not the same as the project owner) stating they will "accept, operate, and maintain" the sewer extension. The continuing authority may complete the "Continuing Authority and Receiving Wastewater Treatment Facility Acceptance" form in lieu of a letter. Download the department's form <u>Continuing Authority Receiving Wastewater Treatment Facility Acceptance-Mo 780-2584</u>. If the continuing authority will not accept and agree to operate and maintain the sewer extension, this application will be considered incomplete.
- 5.0 Complete Engineer contact information.
- 6.0 Complete Receiving Wastewater Treatment Facility information. Include the Missouri State Operating Permit number and the available remaining capacity in gallons per day, or gpd.
- 6.1 Check appropriate box. The receiving wastewater treatment facility must be notified and agree to the proposed sewer extension and additional flow, prior to submitting a construction permit to the department. If the receiving wastewater treatment facility will not accept the wastewater, this application will be considered incomplete.
- 6.2 Check appropriate box. Include a letter from the receiving wastewater treatment facility (if not same as the continuing authority) acknowledging and accepting the additional flow from the proposed sewer extension.
- 6.3 Check appropriate box. The Certificate of Convenience and Necessity (CCN) is granted by the Public Service Commission to for-profit companies to provide sewer services. 10 CSR 20-6.010(2)(B)3 requires the CCN be granted prior to applying for a permit from the department.
- 7.0 Check the appropriate box and include check or confirmation number. Applicants can pay fees online by credit card or eCheck through a system called JetPay. See <u>Water Permit Fees</u>. Clicking on the JetPay link you can make a one-time payment by selecting the "Water Protection Program" as the Payment Category and WP 04 Construction Permits as the Payment Type. The system then asks for Wastewater Permit Number (which is "construction") and Facility/Project name (which is the name of this project given in question 2.0). The fee for sewer extension review is \$300.
  - Per Section 37.001, RSMo, a transaction fee will be included. The transaction fee is paid to the third party vendor JetPay, not the Department of Natural Resources.
  - Be sure to select the correct fee type and corresponding URL to ensure your payment is applied appropriately. If you are unsure what type of fee to pay, contact the Water Protection Program's Budget, Fees and Grants Management Unit by phone at 573-522-1485 for assistance.
  - Upon successful completion of your payment, JetPay provides a payment confirmation. Submit this form with a copy of the payment confirmation if requesting a new permit or a permit modification.
  - If you are unable to make your payment online, but want to pay with credit card, you may email your name, phone number, and invoice number, if applicable, to <u>WPPFEES@dnr.mo.gov</u>. The Budget, Fees and Grants Management Unit will contact you to assist with the credit card payment. **Please do not include your credit card information in the email.**
  - Applicants can find fee rates for various activities in 10 CSR 20-6.011 and <u>Wastewater Treatment Facility Permit</u> <u>Fees-- PUB2564</u>.
- 8.0 The owner of the construction project must sign the application per 10 CSR 20-6.010(5)(G).
  - Mail the completed form, related construction documents and applicable fee (or JetPay receipt) to the department. Also provide the application, plans and specifications in PDF searchable format via external media drive or email if size allows.
  - Email information to DNR.WPPEngineerSection@dnr.mo.gov.

9.0-13.0 Sewer Extension Checklist

This portion of the application is optional, but completing it is recommended because it can speed review. If designed properly, the engineer preparing the application should be able to answer "Yes" or "Not Applicable" (N/A) for each of the items. If an answer of "N/A" is necessary, section 13.0 provides a place to provide any explanation or useful comments. Section 13.0 also requires those completing the Sewer Extension Checklist (9.0 - 13.0) to properly sign, seal and date the checklist. If there are any questions concerning this form, contact the Department of Natural Resources, Water Protection Program at 800-361-4827 or 573-751-1300, or visit <u>Wastewater</u> <u>Construction Permits and Engineering</u>.