Prospect Lift Station Improvements O'Fallon WWTP, MO-0028720 Page One

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MDCCCXX
CONSTRUCTION PERMIT
The Missouri Department of Natural Resources hereby issues a permit to:
Public Water Supply District No. 2 of St. Charles County 100 Water Dr. O'Fallon, MO 63368
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

July 28, 2023 Effective Date July 27, 2025

environmentally regulated areas.

Expiration Date

John Hoke, Director, Water Protection Program

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CONSTRUCTION PERMIT

COLLECTION SYSTEM:

The proposed wastewater collection system project will consist of a new (upgraded/replacement) lift station, including a new wet well with additional depth (~ 8 ft by 8 ft by 15 ft deep), a valve vault, flowmeter vault, two 23-hp submersible pumps (capable of pumping 170 gpm against 171 ft TDH) and associated controls, related piping to connect the new wet well to the existing influent gravity main and force main (~28 ft 8-in SDR26 PVC gravity and ~159 ft of 4-in SDR21 PVC force main), an influent sewer trash basket, bypass pumping portal, stand-by generator, and all necessary appurtenances to make a complete and usable wastewater collection system. The existing wet well will also be converted to a manhole upstream of the new lift station, and one additional manhole will be constructed. There will be no change in flow to the station, but the flow to the station was recalculated to be a design average of 42.9 gpm (~ 62,000 gpd) peaking at 168 gpm (10,138 gph). The project will also include general site work appropriate to the scope and purpose of the project.

On July 12, 2023, the Missouri Clean Water Commission approved a variance from the two-hour minimum emergency storage capacity, as required by 10 CSR 20-8.130(7)(A), allowing only 63 minutes of detention time at the peak hourly flow, but with a dedicated diesel-powered stand-by generator and an uninterruptible power supply for the control panel and alarms.

These activities will be in the vicinity of 1506 Gem Ct. (off Prospect Lakes Dr.) in western Lake St. Louis, St. Charles County, and will discharge to an existing sewer system to be treated at the O'Fallon Wastewater Treatment Plant, Missouri State Operating Permit No. MO-0028720.

PERMIT CONDITIONS:

- 1. All construction shall be in accordance with the plans and specifications received from Crawford, Murphy & Tilly, Inc., on February 22, 2023, and sealed, signed, and dated by Matthew Sainz, P.E. on February 20, 2023.
- 2. 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).
- 3. 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 St. Louis Regional Office per 10 CSR 20-7.015(9)(E)2.
- 4. This construction permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans".

- 5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."
 - A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
 - B. Sewer mains shall be laid at least 10 feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a 10 foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. Manholes should be located at least 10 feet horizontally from any existing or proposed water main.
 - E. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends 10 feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.

Prospect Lift Station Improvements O'Fallon WWTP, MO-0028720 Page Four

- 6. 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 may only be obtained by means of the department's ePermitting system available online at www.dnr.mo.gov/env/wpp/epermit/help.htm. For more information, see www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm.
- 7. 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 www.dnr.mo.gov/env/wpp/401/ for more information.
- 8. Submit the Statement of Work Completed form to the department in accordance with 10 CSR 20-6.010(5)(D). Submit an electronic copy of the as-built drawings with this form if the project was not constructed in accordance with previously submitted plans and specifications. dnr.mo.gov/document-search/wastewater-construction-statement-work-completed-mo-780-2155
- 9. Upon completion of construction, the Public Water Supply District No. 2 of St. Charles County will become the continuing authority for operation, maintenance, and modernization of these facilities.

Scott Adams, P.E. Engineering Section scott.adams@dnr.mo.gov

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 DNR.WPPEngineerSection@dnr.mo.gov 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 https://dnr.mo.gov/document-search/missouri-gateway-environmental-management-mogem-frequently-asked-questions-pub2988/pub2988 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 <a href="https://dnr.mo.gov/data-e-services/water/electronic-permitting-ep

See https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance 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 https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality 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, Form MO 780-2512, to the Department's appropriate regional office 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.



MISSOURI DEPARTMENT OF NATURAL RESOURCESIVED WATER PROTECTION PROGRAM APPLICATION FOR CONSTRUCTION PERMIT 2023 SEWER EXTENSION

Water Protection Program

APP NO. CP NO. EE RECEIVED CHECK NO.
EE RECEIVED CHECK NO.

	Trater Frotection Fr	ogram		2.99.92 Ind		
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?						
	1.2 Has the Department of Natural Resources approved the proposed project's engineering report*? ☐ YES Date of Approval: ☐ 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 specifica						
1.4 Is a summary of design* included with the	his application? 🗹 YES 🗌 N	10				
1.5 Is the appropriate fee or JetPay confirm See Section 7.0	ation included with this application	? 🗹 YES	□NO			
* Must be affixed with a Missouri registered	professional engineer's seal, signa	ature and dat	e.			
2.0 PROJECT INFORMATION 2.1 NAME OF PROJECT			Y			
Prospect Lift Station Improvements						
ADDRESS	CITY	STATE	ZIP CODE	COUNTY		
1506 Gem Ct.	Wentzville	МО	63385	St. Charles		
2.2 Legal Description: 1/4,	¼, ¼, Sec. 32 ,	T 47N	, R 2E			
2.3 Project Components (check all that apply):						
is intended as a direct replacement for the existing lift station on the site. The design average flow is 42.9 gpm and the peak hourly flow is 168 gpm. 159 linear feet of 4" PVC force main is provided and the new force main will connect to the existing force main on site. Other miscellaneous site improvements are included such as site security and a concrete access road, a stand-by generator, new controls, new valve vault and piping, and a new flow meter and vault on the force main. No new connections are expected to the existing collection system and the hydraulic and organic loading is not expected to change.						
A. Population or number of lots to be served by this extension: Existing population of 620 persons						
B. Estimated flow to be contributed by this extension: Design Average Flow: 61758 gpd Design Peak Hourly Flow: 10104 gph						
C. Industrial Wastes: Type: None Flow: N/A gpd						
D. Receiving Sewer: Size: 8 inches Capacity: 550 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: 1 lift station being replaced						
G: Estimated costs associated with piping: \$	30,000 Estimated costs a	ssociated wi	th lift station(s): \$ 74	10,000		
3.0 PROJECT OWNER						
NAME Public Water Supply District No. 2 of St. Charl	· /		EMAIL ADDRESS khampe@waterdis	strict2.com		
ADDRESS 100 Water Dr.	CITY O'Fallon	MO STATE	ZIP CODE 63368			
CHARTER NUMBER (SECRETARY OF STATE) or REGISTERED A D00000479	AGENT	l.				

4.0 CONTINUING AUTHORITY: A continuin for ensuring compliance with the permit required Continuing authority should be a relatively permit when needed, of the permitted facility or activative by the permittee to sample or operate a analytical laboratory. To access the regulator Water Commission Chapter 6. A continuing a (SoS's) webpage: Missouri Secretary of State required to register with the SoS.	irements a ermanent vity. A cor and mainta ry requirer authority's	and provide entity responding aut ain the systement regard name mus	e continuous sonsible for the chority is not, leem for a definition continuing to be listed ex-	stable over e ongoing on nowever, a ned time pe g authority actly as it a	sight of the permitted facility or activity. The peration, maintenance and modernization, in entity or individual that is contractually eriod, such as a certified operator or in 10 CSR 20-6.010(2), please visit Clean appears on the Missouri Secretary of State's	
NAME TELEPHONE NUMBER WITH AREA CODE Public Water Supply District No. 2 of St. Charles Coun (636) 561-3737x156 EMAIL ADDRESS khampe@waterdistrict2.com						
ADDRESS CITY			-57578150	STATE	ZIP CODE	
100 Water Dr. O'Fallon MO 63368						
CHARTER NUMBER (SECRETARY OF STATE) D00000479						
4.1 Has appropriate continuing authority acceded A letter from the continuing authority accepting different than the original owner of the construction Treatment Facility Acceptance. Form 780-25.0 ENGINEER	ng responsuction), or	sibility for c	ontinued mair exec <u>ute</u> d "Co	ntenance o ontinuing A	f the sewer (if the continuing authority is uthority and Receiving Wastewater	
ENGINEER NAME / COMPANY NAME		TELEPHONE	NUMBER WITH AF	REA CODE	EMAIL ADDRESS	
Matthew Sainz / Crawford, Murphy & Tilly ADDRESS	CITY	314.571.9	107	STATE	msainz@cmtengr.com	
One Memorial Drive Suite 500	St. Louis			MO	63102	
6.0 RECEIVING WASTEWATER TREATMENT FACILITY NAME TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS						
City of O'Fallon, MO 636-2			6-240-2000		msuddarth@ofallon.mo.us	
MISSOURI STATE OPERATING PERMIT # COUNT MO-0028720 St. Cr			tharles		REMAINING CAPACITY (GPD) 4,250,000	
6.1 If different from the owner, has a letter be accept the expanded flow or has a properly e MO 780-2584 form been provided? G.2 A letter from the receiving wastewater treating YES NO N/A 6.3 If the receiving treatment plant or continuing Certificate of Convenience and Necessity has	executed Comment face	continuing / D	Authority and rent than the	Receiving continuing	Wastewater Treatment Facility Acceptance authority, is included with this application.	
OPTIONAL QUESTIONS REGARDING MILI			1 163 - Date.		- INO WINA	
Have you or an immediate family member ever served in the U.S. Armed Forces?			□ Ye	es	☑ No	
If yes, would you like information about military-related services in Missouri?			☐ Ye	es	☑ No	
7.0 Application Fee						
☑ Check Number 23655 ☐ JetPay Confirmation Number						
8.0 PROJECT OWNER: I certify under penalt supervision in accordance with a system design submitted. Based on my inquiry of the person gathering the information, the information submare there are significant penalties for submiviolations. PROJECT OWNER SIGNATURE	gned to as or person mitted is, t	sure qualif s who man to the best	ied personnel age the syste of my knowle	properly g m, or those dge and be	ather and evaluate the information e persons directly responsible for elief, true, accurate and complete. I am	
PRINTED NAME DATE						
Kevin Hampe 02/21/2023 TITLE OR CORPORATE POSITION TELEPHONE NUMBER WITH AREA CODE EMAIL ADDRESS				U2/21/2023 EMAIL ADDRESS		
Senior Engineer		636-561-37				
Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM PO BOX 176 JEFFERSON CITY, MO 65102-0176			Submit completed electronic copy to: Missouri Department of Natural Resources at DNR.WPPEngineerSection@dnr.mo.gov			

MO 780-1632 (10-22)

		DESIGN CERTIFICATION: Answer all questions yes or N/A. Answer N/A only if the question is n of the proposed sewer extension.	clearly	not
app	REGULATION	Tof the proposed sewer extension.	YES	N/A
1.	8.110(3)(A)	Is the design flow based on actual flow data for an existing system?	П	T
2.	8.110(3)(B)	Are average design flows, peak hourly flows and I&I contributions for new systems calculated?		<u> </u>
3.	8.110(9)(B)	Is there a detailed plan showing tributary area, boundaries, pertinent elevations, topography, existing and proposed facilities?	V	
4.	8.120(2)	Does the sewer exclude water from roofs, streets, groundwater from foundation drains and combined wastewater?	V	
5.	8.120(3)(A)	Is the pipe installation, embedment and backfill designed to prevent damage to the pipe and its joints?	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?	V	
7.	8.120(3)(A)2	Is the pipe covered with at least 36" of soil or sufficiently insulated to prevent freezing?	V	
8.	8.120(3)(B)	Is deflection testing specified to ensure no pipe exceeds a deflection of 5% of the inside diameter?		Ē
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?	V	
13.	8.120(4)(F)	Do the specifications include a requirement for inspection and testing for manholes?	V	Г
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?	V	
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?	V	Е
10.0		RS, GRINDER PUMP, STEP AND STEG SEWER CHECKLIST		
40	REGULATION		YES	N/A
16.	8.125(5)(A)1.	Does the cleaning velocity of ≥ 2 ft/s happen more than once per day?		V
17.	8.125(5)(A)2.	Is the diameter of the pressure sewer main pipe at least 1.5"?		√
18.	8.125(5)(B)	Are appurtenances compatible with the piping system?		V
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?		√
20.	8.125(5)(C)	Do service line pipes have a minimum diameter of 1.25"?		√
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.		V
22.	8.125(5)(D)1.B	Are multiple unit pump stations owned, operated and maintained by an approved continuing authority?		V
23.	8.125(5)(D)3.	Is there at least 70 gallons of storage in the grinder pump unit?		V
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?		√
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)?		√
6.	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 system?		√
7.	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?		V
8.	8.125(6)(F)	Are duplex pumps provided for the design flow of 1,500 gallons or greater?		$\overline{\mathbf{V}}$

11.0	REGULATION (DIECKLIST				YES	N/A
29.	8.125(7)(C)	Is the minimum	diameter sewer main p	ipe and service line of	STEG sewer at least 4"?	V	17/2
30.	8.130(2)(A) 8.140(2)(B)	130(2)(A) Is the pump station designed to withstand the 100-year flood?					
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?					
32.	8.130(3)(B)	If the design flow provided?	If the design flow is 1,500 gpd or more, are there at least 2 pumps or pneumatic ejectors				
33	8.130(3)(D)	Are valves locate	ed outside wet well unl	ess integral to a pump	or its housing?	V	
34.	8.140(8)(J)					V	
35.	8.130(3)(G)	Does all potable	water brought to pump	stations comply with	8.140(7)(D)?	V	
36.	8.130(6)	Is an alarm syste	em provided with uninte	errupted power?		V	ĪΠ
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?				V	
38.	8.130(7)(B)						V
39.	8.130(8)(A)		Is the force main velocity of ≥ 2 ft/s maintained?				
40.	Are there complete operation instructions for the pumpting stations provided that include emergency procedures, maintenance schedules, special tools and spare parts that may be necessary?						
12.0		MP AND SUBME	RSIBLE PUMP STATION	ON CHECKLIST			
	REGULATION					YES	N/A
41.	8.130(4)	Are the suction lift pumps of the self priming or vacuum priming type?				V	
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 va	cuum pumps capable	of removing air from th	e suction lift pump?	П	V
44.	8.130(5)(A)		pumps readily removal y pipe in the wet well?	ble and replaceable wi	thout personnel entering, or	V	
13.0 \$	SEWER EXTENSION		CERTIFICATION STA	TEMENT			
engin	eer.				eral comments regarding design		
calcula	tions. Item 10 - Se	wers over 8" diame	ng, not new. But, DAF eter are not included in uts are not used on thi	this project. But, all m	alculated and I&I has been con nanholes do have at least 42" in	sidered nside dia	in the ameter
Section	n 10 N/A: Pressure	sewers, grinder pu	umps, STEP, and STE	G sewers are not inclu	ded in this project.		
Section	n 11 N/A: Items 31	and 34 - The proje	ct does not include a d	lry well. Item 37 - A va	riance application is submitted	for this	
•			ions are not included ir	. ,			
Section	n 12 N/A: Items 41,	42, and 43 - Sucti	on lift pumps are not u	sed on this project.	552		
					OF MISCO		
Misso	uri Professional En	gineer's seal, sign	0	-0 -6	Bar Long		
			2121	12-3 B	* SAINZ		
				B	NUMBER PE-2020027965		
Name	Matthew Sainz			*	STONIL V CONDUM		
Addre	ss: Gateway Towe	er One Memorial D	rive, Suite 500		Comme of		
City: S	t. Louis		State: Missouri		ZIP Code: 63102		
Teleph	one Number with A	Area Code: 314.57	1.9107	Email:msainz@cmte	ngr.com		
780-163	32 (10-22)						

BEFORE THE MISSOURI CLEAN WATER COMMISSION

)	
In The Matter Of:)	
Public Water Supply District No. 2 of St. Charles County)	No. CWC-V-2-2023
O'Fallon Wastewater Treatment Plant)	
Emergency Storage Volume Variance)	

ORDER GRANTING VARIANCE NO. CWC-V-2-2023

The Missouri Clean Water Commission (Commission) hereby grants variance request CWC-V-2-2023 to the Public Water Supply District No. 2 of St. Charles County. Specifically, the Commission approves a variance from the pump station design requirement contained in 10 CSR 20-8.130(7)(A) mandating a minimum emergency storage of two hours of sewage at peak flows. This variance allows the Public Water Supply District No. 2 of St. Charles County to install a reasonable amount of emergency storage, along with an emergency generator and other site-specific design considerations, as an alternative to the minimum pump station design requirement in rule.

On May 5, 2023, the Commission issued a public notice and provided an opportunity for public comment on the requested variance. The Commission has determined that based on the administrative record the variance request satisfies the requirements of Section 644.061, Revised Statutes of Missouri (RSMo) and, if properly maintained and operated, the alternative emergency storage solution should provide a comparable level of protection against sanitary sewer overflows as the protection intended by the complete storage design requirement. Further, the proposed variance is consistent with a proposed rulemaking to revise 10 CSR 20-8.130(7) to allow for such alternative emergency storage solutions.

The Missouri Clean Water Commission directs staff to implement Variance No. CWC-V-2-2023 as presented. The term of this variance is for the life of the pump station or until the pending proposed rulemaking of 10 CSR 20-8.130(7) becomes effective.

This decision of the Commission is subject to appeal to the Administrative Hearing Commission pursuant to Sections 644.061.5, 640.013, and 621.250, RSMo.

SO ORDERED on July 12, 2023.

Order Granting Variance No. CWC-V-2-2023

Public Water Supply District No. 2 of St. Charles County O'Fallon Wastewater Treatment Plant Emergency Storage Volume Variance July 12, 2023

Missouri Clean Water Commission

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Commissioner Commissioner	Commissioner
Mark Pierce Commissioner	Commissioner
Commissioner	