

Modified Application Form 2A

Minor Sewage Facilities < 0.1 MGD and No Pretreatment Program

NPDES Permitting Program

Note: Complete this form if your facility is a MINOR new or existing publicly owned treatment works.

		NPDES Permit Number		Facility Name		Modified Application Form 2A Modified March 2021		
Form NPDES	NC Department of Environmental Quality - Application for NPDES Permit to Discharge Wastewater MINOR SEWAGE FACILITIES (Before completing this form, please read the instructions. Failure to follow the instructions may result in denial of the application.)							
SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))								
Facility Information	1.1	Facility name						
		Mailing address (street or P.O. box)						
		City or town			State		ZIP code	
		Contact name (first and last)		Title		Phone number		Email address
		Location address (street, route number, or other specific identifier) ☐ Same as mailing address						
		City or town			State		ZIP code	
Applicant Information	1.3	Is applicant different from entity listed under Item 1.1 above? ☐ Yes ☐ No → SKIP to Item 1.4.						
		Applicant name						
		Applicant address (street or P.O. box)						
		City or town			State		ZIP code	
		Contact name (first and last)		Title		Phone number		Email address
	1.4	Is the applicant the facility's owner, operator, or both? (Check only one response.) ☐ Owner ☐ Operator ☐ Both						
Existing Environmental Permits	1.6	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☐ Applicant ☐ Facility and applicant (they are one and the same)						
		Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)						
		Existing Environmental Permits						
		☐ NPDES (discharges to surface water)		☐ RCRA (hazardous waste)		☐ UIC (underground injection control)		
		☐ PSD (air emissions)		☐ Nonattainment program (CAA)		☐ NESHAPs (CAA)		
	☐ Ocean dumping (MPRSA)		☐ Dredge or fill (CWA Section 404)		☐ Other (specify)			

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Outfalls and Other Discharge or Disposal Methods Continued	1.20	In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.				
	Receiving Facility Data					
	Facility name			Mailing address (street or P.O. box)		
	City or town			State	ZIP code	
	Contact name (first and last)			Title		
	Phone number			Email address		
	NPDES number of receiving facility (if any) ☐ None			Average daily flow rate mgd		
	1.21	Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the State of North Carolina (e.g., underground percolation, underground injection)? ☐ Yes ☐ No → SKIP to Item 1.23.				
	1.22	Provide information in the table below on these other disposal methods.				
	Information on Other Disposal Methods					
	Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)	
			acres	gpd	☐ Continuous ☐ Intermittent	
			acres	gpd	☐ Continuous ☐ Intermittent	
			acres	gpd	☐ Continuous ☐ Intermittent	
Variance Requests	1.23	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.) ☐ Discharges into marine waters (CWA Section 301(h)) ☐ Water quality related effluent limitation (CWA Section 302(b)(2)) ☐ Not applicable				
Contractor Information	1.24	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ☐ Yes ☐ No → SKIP to Section 2.				
	1.25	Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.				
	Contractor Information					
			Contractor 1	Contractor 2	Contractor 3	
		Contractor name (company name)				
		Mailing address (street or P.O. box)				
		City, state, and ZIP code				
		Contact name (first and last)				
		Phone number				
		Email address				
	Operational and maintenance responsibilities of contractor					

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SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))							
Design Flow	Outfalls to Waters of the State of North Carolina						
	2.1	Does the treatment works have a design flow greater than or equal to 0.1 mgd? ☐ Yes ☐ No → SKIP to Section 3.					
Inflow and Infiltration	2.2	Provide the treatment works' current average daily volume of inflow and infiltration.		Average Daily Volume of Inflow and Infiltration gpd			
	Indicate the steps the facility is taking to minimize inflow and infiltration.						
Topographic Map	2.3	Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.) ☐ Yes ☐ No					
Flow Diagram	2.4	Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.) ☐ Yes ☐ No					
Scheduled Improvements and Schedules of Implementation	2.5	Are improvements to the facility scheduled? ☐ Yes ☐ No → SKIP to Section 3.					
	Briefly list and describe the scheduled improvements.						
	1.						
	2.						
	3.						
	4.						
	2.6	Provide scheduled or actual dates of completion for improvements.					
	Scheduled or Actual Dates of Completion for Improvements						
		Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
		1.					
	2.						
	3.						
	4.						
2.7	Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response. ☐ Yes ☐ No ☐ None required or applicable						
Explanation:							

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SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))					
Description of Outfalls	3.1	Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)			
		Outfall Number _____	Outfall Number _____	Outfall Number _____	
	State				
	County				
	City or town				
	Distance from shore	ft.	ft.	ft.	
	Depth below surface	ft.	ft.	ft.	
	Average daily flow rate	mgd	mgd	mgd	
	Latitude	° ' "	° ' "	° ' "	
	Longitude	° ' "	° ' "	° ' "	
Seasonal or Periodic Discharge Data	3.2	Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? ☐ Yes ☐ No → SKIP to Item 3.4.			
	3.3	If so, provide the following information for each applicable outfall.			
		Outfall Number _____	Outfall Number _____	Outfall Number _____	
	Number of times per year discharge occurs				
	Average duration of each discharge (specify units)				
	Average flow of each discharge	mgd	mgd	mgd	
Diffuser Type	3.4	Are any of the outfalls listed under Item 3.1 equipped with a diffuser? ☐ Yes ☐ No → SKIP to Item 3.6.			
	3.5	Briefly describe the diffuser type at each applicable outfall.			
Waters of the U.S.			Outfall Number _____	Outfall Number _____	Outfall Number _____
	3.6	Does the treatment works discharge or plan to discharge wastewater to waters of the State of North Carolina from one or more discharge points? ☐ Yes ☐ No → SKIP to Section 6.			

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Receiving Water Description	3.7	Provide the receiving water and related information (if known) for each outfall.			
			Outfall Number _____	Outfall Number _____	Outfall Number _____
	Receiving water name				
	Name of watershed, river, or stream system				
	U.S. Soil Conservation Service 14-digit watershed code				
	Name of state management/river basin				
	U.S. Geological Survey 8-digit hydrologic cataloging unit code				
	Critical low flow (acute)	cfs	cfs	cfs	
	Critical low flow (chronic)	cfs	cfs	cfs	
	Total hardness at critical low flow	mg/L of CaCO ₃	mg/L of CaCO ₃	mg/L of CaCO ₃	
Treatment Description	3.8	Provide the following information describing the treatment provided for discharges from each outfall.			
			Outfall Number _____	Outfall Number _____	Outfall Number _____
	Highest Level of Treatment (check all that apply per outfall)	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) _____	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) _____	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) _____	
	Design Removal Rates by Outfall				
	BOD ₅ or CBOD ₅	%	%	%	
	TSS	%	%	%	
	Phosphorus	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %	
	Nitrogen	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %	
	Other (specify) _____	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %	

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Treatment Description Continued	3.9	Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.						
			Outfall Number _____	Outfall Number _____	Outfall Number _____			
	Disinfection type							
	Seasons used							
	Dechlorination used?	☐ Not applicable ☐ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No				
Effluent Testing Data	3.10	Have you completed monitoring for all Table A parameters and attached the results to the application package? ☐ Yes ☐ No						
	3.11	Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? ☐ Yes ☐ No → SKIP to Item 3.13.						
	3.12	Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.						
			Outfall Number _____	Outfall Number _____	Outfall Number _____			
			Acute	Chronic	Acute	Chronic	Acute	Chronic
	Number of tests of discharge water							
	Number of tests of receiving water							
	3.14	Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? ☐ Yes → Complete Table B, including chlorine. ☐ No → Complete Table B, omitting chlorine.						
	3.15	Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package? ☐ Yes ☐ No						
3.18	Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package? ☐ Yes ☐ No additional sampling required by NPDES permitting authority.							

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Effluent Testing Data Continued	3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? ☐ Yes ☐ No → Complete tests and Table E and SKIP to Item 3.26.		
	3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? ☐ Yes ☐ No → Provide results in Table E and SKIP to Item 3.26.		
	3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.		
		Date(s) Submitted (MM/DD/YYYY)	Summary of Results	
	3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? ☐ Yes ☐ No → SKIP to Item 3.26.		
	3.23	Describe the cause(s) of the toxicity:		
3.24	Has the treatment works conducted a toxicity reduction evaluation? ☐ Yes ☐ No → SKIP to Item 3.26.			
3.25	Provide details of any toxicity reduction evaluations conducted.			
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? ☐ Yes ☐ Not applicable because previously submitted information to the NPDES permitting authority.			

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SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))			
Checklist and Certification Statement	6.1	In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	☐	Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s) ☐ w/ additional attachments
	☐	Section 2: Additional Information	☐ w/ topographic map ☐ w/ process flow diagram ☐ w/ additional attachments
	☐	Section 3: Information on Effluent Discharges	☐ w/ Table A ☐ w/ Table D ☐ w/ Table B ☐ w/ additional attachments ☐ w/ Table C
		Section 4: Not Applicable	
		Section 5: Not Applicable	
	☐	Section 6: Checklist and Certification Statement	☐ w/ attachments
	6.2	Certification Statement	
		<i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
	Name (print or type first and last name)	Official title	
	Signature	Date signed	

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TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☐ BOD ₅ or ☐ CBOD ₅ (report one)							☐ ML ☐ MDL
Fecal coliform							☐ ML ☐ MDL
Design flow rate							
pH (minimum)							
pH (maximum)							
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)							☐ ML ☐ MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)							☐ ML ☐ MDL
Chlorine (total residual, TRC) ²							☐ ML ☐ MDL
Dissolved oxygen							☐ ML ☐ MDL
Nitrate/nitrite							☐ ML ☐ MDL
Kjeldahl nitrogen							☐ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus							☐ ML ☐ MDL
Total dissolved solids							☐ ML ☐ MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

² Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as CaCO ₃)							☐ ML ☐ MDL
Antimony, total recoverable							☐ ML ☐ MDL
Arsenic, total recoverable							☐ ML ☐ MDL
Beryllium, total recoverable							☐ ML ☐ MDL
Cadmium, total recoverable							☐ ML ☐ MDL
Chromium, total recoverable							☐ ML ☐ MDL
Copper, total recoverable							☐ ML ☐ MDL
Lead, total recoverable							☐ ML ☐ MDL
Mercury, total recoverable							☐ ML ☐ MDL
Nickel, total recoverable							☐ ML ☐ MDL
Selenium, total recoverable							☐ ML ☐ MDL
Silver, total recoverable							☐ ML ☐ MDL
Thallium, total recoverable							☐ ML ☐ MDL
Zinc, total recoverable							☐ ML ☐ MDL
Cyanide							☐ ML ☐ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein							☐ ML ☐ MDL
Acrylonitrile							☐ ML ☐ MDL
Benzene							☐ ML ☐ MDL
Bromoform							☐ ML ☐ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride							☐ ML ☐ MDL
Chlorobenzene							☐ ML ☐ MDL
Chlorodibromomethane							☐ ML ☐ MDL
Chloroethane							☐ ML ☐ MDL
2-chloroethylvinyl ether							☐ ML ☐ MDL
Chloroform							☐ ML ☐ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane							☐ ML ☐ MDL
1,2-dichloroethane							☐ ML ☐ MDL
trans-1,2-dichloroethylene							☐ ML ☐ MDL
1,1-dichloroethylene							☐ ML ☐ MDL
1,2-dichloropropane							☐ ML ☐ MDL
1,3-dichloropropylene							☐ ML ☐ MDL
Ethylbenzene							☐ ML ☐ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride							☐ ML ☐ MDL
1,1,1,2-tetrachloroethane							☐ ML ☐ MDL
Tetrachloroethylene							☐ ML ☐ MDL
Toluene							☐ ML ☐ MDL
1,1,1-trichloroethane							☐ ML ☐ MDL
1,1,2-trichloroethane							☐ ML ☐ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene							☐ ML ☐ MDL
Vinyl chloride							☐ ML ☐ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene							☐ ML ☐ MDL
Acenaphthylene							☐ ML ☐ MDL
Anthracene							☐ ML ☐ MDL
Benzidine							☐ ML ☐ MDL
Benzo(a)anthracene							☐ ML ☐ MDL
Benzo(a)pyrene							☐ ML ☐ MDL
3,4-benzofluoranthene							☐ ML ☐ MDL

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Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene							☐ ML ☐ MDL
Benzo(k)fluoranthene							☐ ML ☐ MDL
Bis (2-chloroethoxy) methane							☐ ML ☐ MDL
Bis (2-chloroethyl) ether							☐ ML ☐ MDL
Bis (2-chloroisopropyl) ether							☐ ML ☐ MDL
Bis (2-ethylhexyl) phthalate							☐ ML ☐ MDL
4-bromophenyl phenyl ether							☐ ML ☐ MDL
Butyl benzyl phthalate							☐ ML ☐ MDL
2-chloronaphthalene							☐ ML ☐ MDL
4-chlorophenyl phenyl ether							☐ ML ☐ MDL
Chrysene							☐ ML ☐ MDL
di-n-butyl phthalate							☐ ML ☐ MDL
di-n-octyl phthalate							☐ ML ☐ MDL
Dibenzo(a,h)anthracene							☐ ML ☐ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine							☐ ML ☐ MDL
Diethyl phthalate							☐ ML ☐ MDL
Dimethyl phthalate							☐ ML ☐ MDL
2,4-dinitrotoluene							☐ ML ☐ MDL
2,6-dinitrotoluene							☐ ML ☐ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine							☐ ML ☐ MDL
Fluoranthene							☐ ML ☐ MDL
Fluorene							☐ ML ☐ MDL
Hexachlorobenzene							☐ ML ☐ MDL
Hexachlorobutadiene							☐ ML ☐ MDL
Hexachlorocyclo-pentadiene							☐ ML ☐ MDL
Hexachloroethane							☐ ML ☐ MDL
Indeno(1,2,3-cd)pyrene							☐ ML ☐ MDL
Isophorone							☐ ML ☐ MDL
Naphthalene							☐ ML ☐ MDL
Nitrobenzene							☐ ML ☐ MDL
N-nitrosodi-n-propylamine							☐ ML ☐ MDL
N-nitrosodimethylamine							☐ ML ☐ MDL
N-nitrosodiphenylamine							☐ ML ☐ MDL
Phenanthrene							☐ ML ☐ MDL
Pyrene							☐ ML ☐ MDL
1,2,4-trichlorobenzene							☐ ML ☐ MDL

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

