

February 2025

NCMA Pretreatment Audit Inspections in North Carolina

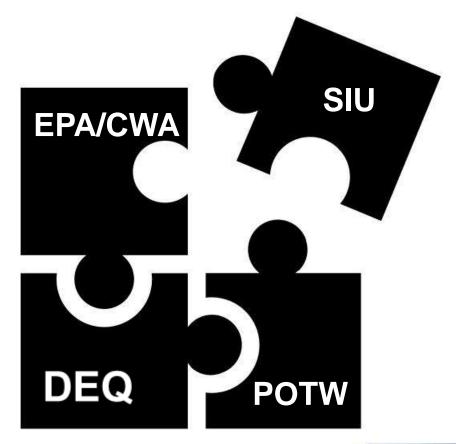


Pretreatment Goals

- Prevent pass through of pollutants (to waters of the state)
- Prevent interference within treatment plant and / or collection system
- Protect sludge quality
- Treatment Plant worker safety
- Equitable treatment of industrial users



Where do we all fit?





Significant Industrial User (SIU) Definition

- ≥ 25,000 gal/day process wastewater
- ≥ 5% of allowable loading for flow, BOD, TSS or NH₃
- Industrial processes covered by Federal Pretreatment Regulations = Categorical Industrial User (CIU) [40 CFR Chapter I, Subpart N]
- any facility with potential for negative impact to POTW (passthrough, interference, sludge standards)

Ref: 15A North Carolina Administrative Code (NCAC) 02H .0903 (30)



Pretreatment Regulatory Structure

 North Carolina is a "qualified state" under the Clean Water Act's (CWA) National Discharge Elimination System (NPDES) program (as authorized in Section 402 of the act)



- General Pretreatment Regulations for Existing and New Sources of Pollution: Title 40 Code of Federal Regulations (CFR) Part 403
- Categorical regulations: 40 CFR Parts 405 471
- State Rules: 15A North Carolina Administrative Code (NCAC) 02H .0900
- DWR's Requirements: Annual reports, Audits and Inspections (for DWR to meet the CWA Section 106 Grants for Pollution Control Programs requirements)
- DWR (State) is the Approval Authority
- POTW (Town) is the Control Authority
- A Significant Industrial User (SIU) is also known as an Indirect Discharger



Summary of State's Role

Pretreatment Program Approval Authority - NC Division of Water Resources (DWR)

- Requires the Publicly Owned Treatment Works (POTW) to develop a Pretreatment Program
- Review and approval of all the POTW's Pretreatment Program Elements
- Provide technical guidance to POTWs
- Compliance & Enforcement to require POTWs to properly implement a Pretreatment Program
- Evaluate POTW pretreatment program implementation by conducting pretreatment compliance audits and inspections



Pretreatment Audits and Inspections



POTW (Control Authority) must inspect each Significant Industrial User every year

- Initial Interview
- Site Tour
- Pretreatment Tour
- Sampling Review
- Exit Interview
- DWR (Approval Authority) must inspect and audit POTWs on a rolling 5-year calendar
 - Attend an SIU inspection
 - Inspect pretreatment files for all pretreatment elements
 - 40% PT Compliance Inspections and 20% PT Audit Inspections (per EPA CWA 106 Grant Program)
 - PCI vs. PAI?



Pretreatment Audits and Inspections



SIU as the Permittee

- READ the permit
- KNOW the permit
- COMPLY with the permit
- COMMUNICATE with your POTW
- Participate in annual inspections by Control Authority (POTW)



Why are inspections done?

- Fact finding
- Field verification of data
- Evaluation of adequacy of current permit
- Providing technical assistance
- Future planning
- Building rapport with SIU/IU and the POTW



What does an Annual Pretreatment Inspection Look Like?

Initial Interview

Has anything changed since your last inspection?

Plant Tour

- Visiting all areas of your facility where wastewater is generated or where there are drains that lead to the POTW
- Are things labeled? Are production areas diked, contained, etc.? How often are these areas cleaned?

Pretreatment Tour

• If your facility has Pretreatment Equipment, you'll get asked about how it operates, who operates it, maintenance of it, etc.

Sampling Review

 How is sampling done? By your employees or an outside lab? When was your flow meter last calibrated?

Exit Interview

• How are your files kept – are they organized? Who can shut down production if there is a spill and how do you train on what to do if there is a spill/slug? Etc.



What happens when the State joins in?

- Your inspection stays the same!
- The State is there to inspect the POTW
 - Making sure that they are inspecting SIUs properly
 - Double checking for things that the POTW may not find during an inspection as a set of "fresh eyes"
- Before entering an SIU the following occurs:
 - State reviews the SIU permit, all sample data, and any enforcement info with the POTW
 - Looking to corroborate SIU submissions with POTW records



State > POTW Inspection Sheet

66.	STRIAL USER PERMIT (IUP) FILE REVIEW (3 IUP FILE REVIEW (ser Name 1. 2.		3.				
67.	IUP Number	<u> </u>					
68.		Permit?			Yes No	Yes No	Yes No
69.	Permit Expiration Date						
70.	Categorical Standard Appl	ied (I.E. 40 CFR, Etc.)) Or N/A				
	Does File Contain Permit Application Completed Within One Year Prior to Permit Issue Date?			Yes No	Yes No	Yes No	
72.	Does File Contain Inspection Completed Within Last Calendar Year?			Yes No	Yes No	Yes No	
	a. Does File Contain Slug/Spill Control Plan? b. If No, is One Needed? (See Inspection Form from POTW)			a. Yes No	a. Yes No	a. □Yes □No b. □Yes □No	
74.	For 40 CFR 413 and 433 T Organic Management Plan		es File Contain	a Toxic	□Xes□No□N/A	OYes ONO ON/A	□Yes□No□N/A
75.	a. Does File Contain Origi b. All Issues Resolved?	nal Permit Review Let	tter from Divisi	on?	a. Yes No b. Yes No N/A	a. Yes No b. Yes No N/A	a. Yes No b. Yes No N/A
76.	During Most Recent Semi- Sampling as Required by I		OTW Complete	e its	Yes No	Yes No	Yes No
77.	Does File Contain POTW	Sampling Chain-Of-C	ustody Forms?		Yes No	Yes No	Yes No
78.	During Most Recent Semi- Sampling as Required by I		IU Complete its	S	□Yes□No□N/A	Yes No N/A	Yes No N/A
79.	During Most Recent Semi- time?	-Annual Period, Did Si	IU submit all re	eports on	Xes No N/A	Tes No N/A	Ves No N/A
80a	For categorical IUs with C file include process/dilution	***************************************		F), does	Xes No N/A	Yes No N/A	Yes No N/A
80b	. For categorical IUs with Proportion rates and/or flo			ıde	Xes No N/A	Yes No N/A	Ves No N/A
	During Most Recent Semi- Limits Non-Compliance fr	om Both POTW and S	IU Sampling?		Yes No	Yes No	Yes No
82.	During Most Recent Semi- Reporting Non-Compliance		-	A11	Xes No N/A	OYes ONO N/A	□Yes□No□N/A
83.	a. Was POTW Notified by	SIU (Within 24 Hours) of All Self-		a.o. Yeso Noo N/A	a.o.YesoNooN/A	a.o.YesoNooN/A
	Monitoring Violations? b. Did Industry Resample a c. If applicable, did POTW				b. Xes Non N/A	b. Xes No NA	b. Xes Non N/A
	becoming aware of SIU lin	•		-	c Yes No NA	c. Yes No NA	c. Yes No NA
84.	During Most Recent Semi-				Yes No	Yes No	Yes No
85.	During Most Recent Semi- Specified in POTW's ERP			iken as	Yes No N/A	□Yes□No□N/A	□Yes□No□N/A
86.	Does File Contain Penalty	Assessment Notices?			□Yes□No□N/A	□Yes□No□N/A	□Yes□No□N/A
87.	Does File Contain Proof Q	f Penalty Collection?			□Yes□No□N/A	□Yes□No□N/A	□Yes□No□N/A
88.	a. Does File Contain Any (b. Is SIU in Compliance w		Orders?		a. D. Yeso Noo N/A b. o Yeso Noo N/A	a. D Yes D NoD N/A b. D Yes D NoD N/A	a D Yes D NoD N/A b D Yes D NoD N/A
89.	Did POTW Representative Information For You?	Have Difficulty in O	btaining Any R	equested	Yes No	Yes No	Yes No
							ı

FILE REVIEW COMMENTS:



POTW → SIU Inspection Sheet

SIU INSPECTION FORM

		IUP #IUP Expiration Date:		
Address Of Industry:				
Industry Representatives:		Title		
POTW Representatives:		Title		
Date Of Inspection:	Time Of In	spection: am/pm		
Purpose of Inspection: Annual	Other (Describe)	spectionam/pm		
POTW to which IU discharges		NPDES #		
Is SIU currently in SNC?	If yes for what?	NI DES #		
PART I - INITIAL INTER	RVIEW ast inspection or IUP application in	the following:		
rias anything changed since the is	COMMENTS			
Product	YES / NO			
Raw materials used				
Manufacturing processes	YES / NO			
Categorical, if applicable	YES / NO			
Production rate	*****			
Number of employees				
Number of shifts YES /	NO			
Comments:				
drains to the POTW. Plant Tour Section A - PR	ODUCTION AND STORA		are	
 Are there floor drains in the p 	roduction area? YES / NO V	Where do they go?		
 Are production areas diked, c especially from spills or slugs? 		in such a way as to prevent harm to the	WWTI	
3. Are there floor drains in the s	torage area? YES / NO Whe	re do they go?		
	iked, contained, or otherwise const slugs? YES / NO Comments	ructed in such a way as to prevent harm t	to the	
	and pipes labeled? YES / NO ls, and products disposed of?			
7. When is the production area of				
	ng the production area discharged t	to the POTW? YES / NO		
	s are discharged to POTW?			

PART II - Plant Tour Section B - PRETREATMENT SYSTEM	
Ask the operator to describe pretreatment system. 1. Does operator seem knowledgable about the system? YES / NO Comments:	
2. Are all units operational? YES / NO 3. How often does operator/maintenance person check system? 4. Is there an operator for each shift? YES / NO 5. How and when is sludge disposed of?	
6. Is there a schedule for preventative maintenance? YES / NO	
Comments:	
PART II - Plant Tour Section C - SAMPLING POINT(S) AND FLOW MEASUREM (Collect a sample if desired.) 1. Does an outside lab complete sampling? YES / NO If yes, name of lab. 2. If industry completes sampling, ask the industry representative to describe sampling procedures. Con	IENT
3. Is flow measurement equipment operational? YES / NO Comments:	
4. Is there a calibration log for the flow meter? YES / NO Comments:	
PART III - EXIT INTERVIEW Review monitoring records and other SIU records required by IUP. 1. Are files well organized? YES / NO Comments: 2. Are sample collection / chain-of-custody forms filled out properly? YES / NO Comments:	
Do results in files agree with reports sent to POTW? YES / NO Comments:	
4. Who has authority to shut down production should a spill or slug discharge occur?	
5. How does SIU inform employees of whom to call at POTW in case of spitl/slug?	
If slug/spill plan is already required by POTW, review procedures. 6. Is SIU implementing slug/spill plan? YES / NO Comments:	
Comments:	
INSPECTION RESULTS Slug/Spill Control Plan Needed? YES / NO Comments, Required Or Recommended Actions:	
Signature Of Inspector(s) Date:	



DWR Municipal Unit, Pretreatment Staff (Central Office - Archdale Building)

Natalie Gorensek

(DEQ since 2023)

Ricky Kuntz

(DEQ since 2024)

Keyes McGee

(DEQ since 1999)

Matthew Nevills

(DEQ since 2020)

Dr. Stephanie Zorio

(DEQ since 2020)

Karen Preston (Supervisor)

(DEQ since 2024)

Responsible for:

State's Pretreatment Program oversight: Compliance,

Program Element Review, Approval Actions, Pretreatment Training, POTW & Industrial Assistance



Archdale Building, 9th Floor, 512 N Salisbury Street, Raleigh, NC 27604

We work daily with all NPDES Permitting Staff to assure proper implementation of Pretreatment Requirements!



Regional Offices' Pretreatment Staff



Regional Office	PT Contact			
Asheville Regional Office (ARO)	Lauren Armeni			
Asheville Regional Office (ARO)	Dan Boss			
Asheville Regional Office (ARO)	Rachel Rose			
Asheville Regional Office (ARO)	Melanie Kemp			
Asheville Regional Office (ARO)	Richard Eguino			
Asheville Regional Office (ARO)	Mikai Wilmer		e Regional Office on-Salem Regional Office ayetteville Regional Office	
Fayetteville Regional Office (FRO)	0			
Fayetteville Regional Office (FRO)	Evelyn Hairr Blue: Washing		Regional Office	
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Mooresville Regional Office (MRO)	Wes Bell		• Email A	
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Wilmington Regional Office (WIRO)	Ann Marie Baxter			
Winston-Salem Regional Office (WSRO)	Jenny Graznak			

Orange: Mooresville Regional Office

Purple: Raleigh Regional Office Green: Wilmington Regional Office

- Email Address:
- FirstName.LastName
 @deq.nc.gov

Tips for SIU Pretreatment Success

- Read your Industrial User Permit (IUP) permit
- Obtain copy of NPDES Permit and Factsheet
- Sample early in the compliance period
- Communicate frequently with the POTW
- Staff training to meet pretreatment requirements



Pretreatment Contact Info.

Pretreatment Coordinators:

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Note: All staff uses WEBEX for phone

