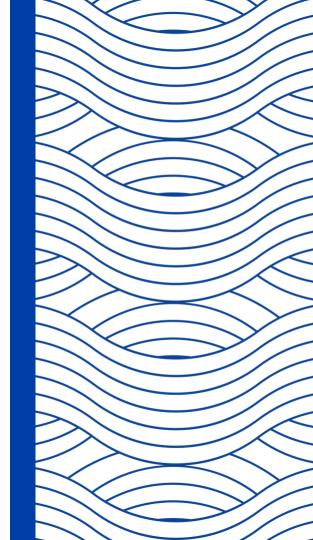
2022 Annual Industrial **Pretreatment** Meeting

City of Carrollton



Introductions

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Consistently Compliant Industries

Recognizing industries of the past permit year



Environmental Distinction Award

Announcement for applications and requirements



Pretreatment Year Recap

Pretreatment and stormwater NOV review



Topic discussion

Surcharge calculation, streamline reporting, violation review, stormwater do's and don'ts

City of Carrollton



Consistently Compliant Industries

- Electroplate Circuitry- Capital
- Image Industries
- International Paper- Belt Line
- Quality Powder Coating
- Ralcorp Frozen Foods

- Texas Finishings
- United One Laboratories
- Wash Solutions
- Western Extrusion
- WMC



The 2022 Environmental Distinction Award

- Began in 2003
- Application is open to all consistently compliant industries of the 2021-2022 permit year.
- Chaired by City Council Member Adam Polter
- Presented during the first city council meeting in December.



Basics

Application





Industry Application for 2022 Environmental Distinction Award

GENERAL INFORMATION

Name of industry:		
Address:		
Phone No:	Fax No: —	
Website, if any:		
Brief Description of Business:		
Date Operations Started in Carrollton:		
Contact Persons:		
Name:	Title:	
Name:	Title:	
Size of the Business (# of employees):		

ENVIRONMENTAL ELEMENTS

(Supplemental information included on the following pages)

Briefly describe in detail how the business meets the following elements of the City's Environmental Distinction Award

Pollution Prevention Achievements Commitment to Environmental Sustainability Environmental Leadership Your Industry's Specific Role in the City's Goal of Creating a Sustainable Future

Please submit this cover sheet along with all the attached materials not later than 11:30 a.m. on November 15, 2022, to:

The Environmental Distinction Awards Committee c/o Katherina Kang, Industrial Pretreatment Coordinator City of Carrollton Environmental Services Department 1945 E. Jackson Rd Carrollton, TX 75006

ASPECTS OF ENVIRONMENTAL ELEMENTS

1. Pollution Prevention Achievements

Briefly explain/ describe what your company has done in relation to pollution prevention. Examples include:

- Eliminated or significantly reduced the use of toxic products or harmful air emissions in 2018 and 2019
- Reduced the risk posed by hazardous materials through design, engineering, or other practices.
- Where/if applicable, engaged in integrated pest management.
- Reduced the amount of waste discarded.
- · Used sound recycling approaches.
- · Conserved resources through -
 - Energy efficiency reduce the use of electricity or fossil fuels by using energy-efficient products; using solar or passive heating and cooling systems; or engaging in other energy efficient practices.
 - Water conservation reduce water use, increase reuse of water resources, increase use of rainwater and runoff or utilizing land use designs that reduce runoff or use drought tolerant plants,
 - o Efficient use of raw materials or use/procurement of recycled materials

2. Commitment to Environmental Sustainability

In this section, please explain/describe your company's...

- Policy committing to environmental excellence
- Workforce and management team that recognizes environmental sustainability and quality as an integral part of their job
- Continuous process to evaluate pollution prevention opportunities
- Environmental management system or quality system that integrates environmental factors and regulations into strategic business decisions and day to day operations
- · Use of environmental cost accounting or environmental management accounting.

Application



3. Environmental Leadership

In this section, please explain/describe what your company has done in terms of...

- Work done with manufacturers, suppliers, customers, disposers and regulatory agencies to minimize the environmental impacts associated with the product(s)
- Leadership in community environmental programs
- Leadership in environmental programs in their industry
- Participation in federal, state or local voluntary pollution prevention programs.

4. Your Industry's Specific Role in the City's Goal of Creating a Sustainable Future

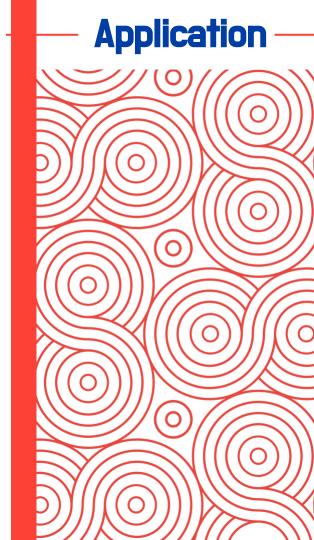
Describe any 2018-2019 activities and future plans regarding your company's participation or partnership in endeavors that are aimed at meeting the goal of creating a sustainable future for its businesses and its residents. Examples would be feeding programs done in Carrollton, creek clean-ups, storm drain markers, volunteer partnerships with city programs, etc.

ADDITIONAL INSTRUCTIONS

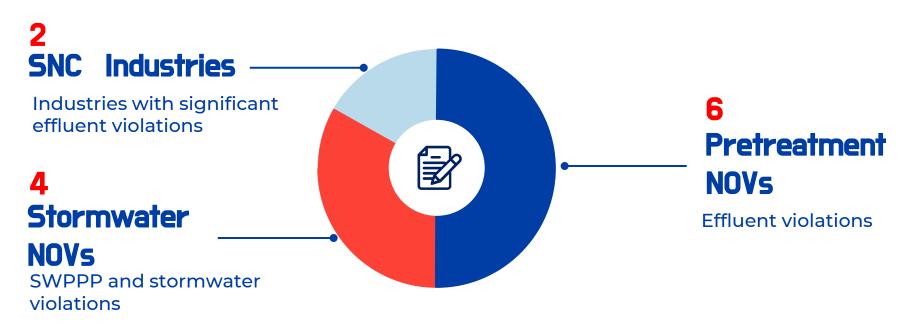
Include documentation to support your responses.







2021-2022 Pretreatment Year Recap





Reporting Reminders





SECTION B - WASTEWATER DISCHARGES

	c 11 .						
rovide the	≥ tallawin	a information	n on discharde	a flow/ rate	tor this six	k month reporti	ina nerioc
I O VIGO LIN		gillionilation	i ori alboriarge	5 HOW TALE	101 11113 317	t informir report	ing pende

- 1. Average Wastewater Volume Discharged from Non-Manufacturing Operations (gpd)
- 2. Average Wastewater Volume Discharged from Manufacturing Support Operations (gpd)
- 3. Average Wastewater Volume Discharged from the Manufacturing Process (gpd)
 - a. If a continuous discharge: Hours of Manufacturing Process Discharge (e.g., 9 a.m. to 5 p.m. or closed)

ciosea)						
M		Т				
W		Т				
F		Sa				
		Su				
b. Peak hourly flow rate (gal/hour):						
c. Maximum daily flow rate (gal/day)						
d. Daily average flow rate (gal/day)						
If batch discharge occurs or will occur, indicate:						

e. If batch discharges occur, give the number of occurrences:

- 1. Daily 2. Weekly 3. Monthly
- f. Time of batch discharges (e.g. 9 a.m. to 10 a.m.)
- g. Average discharge volume per batch:

h. Average flow rate per batch:

(gal/batch)

(gal/minute)

Topic Discussion Outline



Surcharge

Exceedance of COD, BOD, and TSS levels



SNC Calculation

When is an industry considered SNC?



Updates on TRA and TCEQ streamlining proposal

Surcharge Calculations

Q	Wastewater flow, Mgal/mo
0.001	Conversion factor, Mgal/mo to Mmgal/mo
8.34	Conservation factor, mg/L to lb/MMgal
a*	\$/ lb BOD or COD unit charge = 0.09237
b*	\$/ lb TSS unit charge = 0.13058
С	CoC admin overhead factor = 1.3

BOD- Biological oxygen demand COD- Chemical oxygen demand TSS- Total suspended solids

$$Surcharge = (Q)\{(0.001)(8.34)[a(BOD - 250) + b(TSS - 250)](c)\}$$

$$OR$$

$$Surcharge = (Q)\{(0.001)(8.34)[a(COD - 625) + b(TSS - 250)](c)\}$$

^{*} Unit charges dictated by TRA and changes every permit year

COD is NOT 2.5 times greater than average BOD. Therefore, do not use it in calculation.

BOD is greater than 250. TSS is greater than 250. Both will be included in calculation.

Surcharge =	(Q) {(0.001) (8.34) [a	(BOD-250) + b(TS	S-250)] (c)}		
	or				
Surcharge =	(Q) {(0.001) (8.34) [a	(COD-625) + b(TS	S-250)] (c)}		
Q	Wastewater Flo	w, Mgal/mo			
0.001	Conversion Factor, Mg	al/mo to MMgal/mo			
8.34	Conversion Factor, r	mg/L to Ib/MMgal			
0.08162	a = \$/lb BOD or CO	D Unit Charge			
0.12381	b = \$/lb TSS U	nit Charge			
1.3	c = CoC Admin Ov	erhead Factor			
COD	Averaged from Sa	imple Testing	625		
BOD	Averaged from Sa	imple Testing	250		
TSS	Averaged from Sa	imple Testing	250		
Date	COD (mg/L)	BOD (mg/L)	TSS (mg/L)	Data	
1/21/20	3050	1090	590	City	
04/14/2020	5820	3870	2080	City	
AVERAGES:	4435.00	2480.00	1335.00		
BOD/TSS:					
Surcharge =	(Q) {(0.001) (8.34) [0	.08162*(2480.00-2	250) + 0.12381	*(1335.00-	250)] (1.3)}
	3.430				

(Q) {(0.001) (8.34) [0.08162*(4435.00-625) + 0.12381*(1335.00-250)] (1.3)}

4.828

Surcharge =

COD/TSS:

(Q) {Surcharge Multiplier}

COD is NOT 2.5 times the BOD. Therefore, COD will not be used in calculation.

BOD is greater than 250. TSS is NOT greater than 250. Only BOD will be included in calculation.

Surcharge =	(Q) {Surcharge Multi	plier}			
Surcharge =	(Q) {(0.001) (8.34) [a	(BOD-250) + b(TS	S-250)] (c)}		
	or				_
Surcharge =	(Q) {(0.001) (8.34) [a	(COD-625) + b(TS	S-250)] (c)}		
					_
Q	Wastewater Flo				_
	Conversion Factor, Mg				
8.34	Conversion Factor, r				_
0.08162	a = \$/lb BOD or CO				
0.12381	b = \$/lb TSS U	_			
1.3	c = CoC Admin Ov				_
COD	_		625		_
BOD	Averaged from Sa		250		•
TSS	Averaged from Sa	imple Testing	250		
Date	COD (mg/L)	BOD (mg/L)	TSS (mg/L)	Data	
0.10.0.10.0					
2/20/20	892	540	202	City	
2/20/20 05/27/2020	892 1020	540 872	202 174	City	
05/27/2020	1020	872	174		
05/27/2020	1020	872	174		Y / / /
05/27/2020	1020	872	174		Y / / / /
05/27/2020 AVERAGES: BOD/TSS:	956.00	706.00	188.00		Y / / / /
05/27/2020 AVERAGES:	1020	706.00	188.00		
05/27/2020 AVERAGES: BOD/TSS:	956.00 (Q) {(0.001) (8.34) [0	706.00	188.00		* ' ' ' ' '
05/27/2020 AVERAGES: BOD/TSS: Surcharge =	956.00 (Q) {(0.001) (8.34) [0	706.00	188.00		7 / / / / / / /
05/27/2020 AVERAGES: BOD/TSS:	956.00 (Q) {(0.001) (8.34) [0	706.00 -08162*(706.00-2	174 188.00 50)] (1.3)}		Y / / / / / /

COD IS 2.5 times the BOD. However, it is NOT greater than 625 mg/L. Therefore, it will not be used in calculation.

BOD is NOT greater than 250 mg/L.

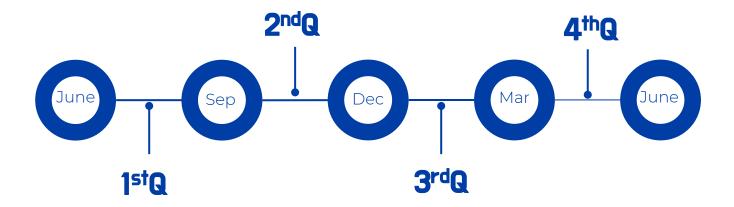
TSS IS greater than 250 mg/L and will be included in calculation.

Surcharge =	(Q) {Surcharge Multip	plier}		
Surcharge =	(Q) {(0.001) (8.34) [a	(BOD-250) + b(TSS	3-250)] (c)}	
	or			
Surcharge =	(Q) {(0.001) (8.34) [a	(COD-625) + b(TS	S-250)] (c)}	
Q	Wastewater Flo	w, Mgal/mo		
	Conversion Factor, Mg			
8.34	Conversion Factor, r	-		
0.08162	a = \$/lb BOD or CO	_		
0.12381	b = \$/lb TSS U			
1.3	c = CoC Admin Ov			
COD	Averaged from Sa		625	
BOD	Averaged from Sa		250	
TSS	Averaged from Sa	mple Testing	250	
Date	COD (mg/L)	BOD (mg/L)	TSS (mg/L)	Data
12/19/19	652	55	1,120	City
03/19/2020	552	272	151	City
AVERAGES:	602.00	163.50	635.50	
BOD/TSS:				
Surcharge =	(Q) {(0.001) (8.34) [0	.12381*(635.50-25	(1.3)	
	0.517			
COD/TSS:				
Surcharge =	(Q) {(0.001) (8.34) [0	.12381*(635.50-25	(0)] (1.3)}	
	0.517			

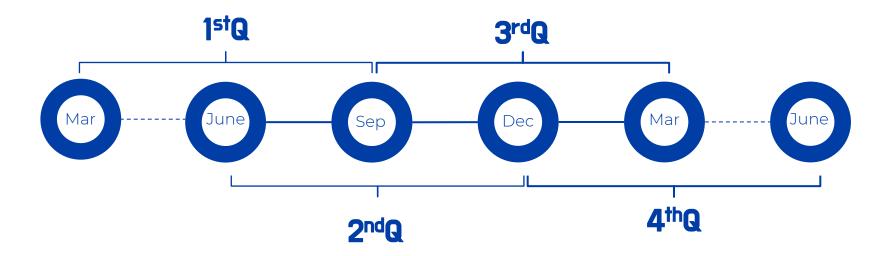
Surcharge - (O) (Surcharge Multiplier)

TSS IS greater than 250 mg/L. AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
## Code State Stat		Q	Wastewater Flo	w, Mgal/mo			
COD IS 2.5 times greater than BOD and greater than 625 mg/L.		0.001	Conversion Factor, Mg	al/mo to MMgal/mo			
BOD and greater than 625 mg/L. Description	COD 10 2 F 1	8.34	Conversion Factor, n	ng/L to lb/MMgal			
1.3	_	0.08162	a = \$/lb BOD or CC	D Unit Charge			
COD Averaged from Sample Testing 625 BOD IS greater than 250 mg/L. Date COD (mg/L) BOD (mg/L) TSS (mg/L) Data 12/20/19 74 23 148 City 03/19/2020 2480 763 775 City TSS IS greater than 250 mg/L. COD and TSS will all be used in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	BOD and greater than 625	0.12381	b = \$/lb TSS U	nit Charge			
COD	ma/L.	1.3	c = CoC Admin Ov	erhead Factor			
TSS Averaged from Sample Testing 250	9, =	COD			625		
Date COD (mg/L) BOD (mg/L) Data 12/20/19 74 23 148 City 03/19/2020 2480 763 775 City TSS IS greater than 250 mg/L. COD and TSS will all be used in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
Date COD (mg/L) BOD (mg/L) TSS (mg/L) Data 12/20/19 74 23 148 City 03/19/2020 2480 763 775 City TSS IS greater than 250 mg/L. AVERAGES: 1277.00 393.00 461.50 AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	DOD 16 1 11 250	TSS	Averaged from Sa	ample Testing	250		
TSS IS greater than 250 mg/L. AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
TSS IS greater than 250 mg/L. AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	mg/L.	Date	COD (mg/L)	BOD (mg/L)	TSS (mg/L)		
TSS IS greater than 250 mg/L. COD and TSS will all be used in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} 0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}		12/20/19	74	23	148	City	
AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}		03/19/2020	2480	763	775	City	
AVERAGES: 1277.00 393.00 461.50 BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	TSS IS greater than 250 mg/L.						
in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
in the calculations. BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} 0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} 0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	COD and TSS will all be used	AVERAGES:	1277.00	393.00	461.50		
BOD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} 0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}	in the calculations.						
Surcharge = (Q) {(0.001) (8.34) [0.08162*(393.00-250) + 0.12381*(461.50-250)] (1.3)} 0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}							
0.410 COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}			(0) ((0 004) (0 04) (0	00400+4000 00 05		24 52 2522 44	
COD/TSS: Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}		Surcharge =		.08162^(393.00-250)) + 0.12381^(4	61.50-250)] (1.	3)}
Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}			0.410				
Surcharge = (Q) {(0.001) (8.34) [0.08162*(1277.00-625) + 0.12381*(461.50-250)] (1.3)}		000/700					
			(0) ((0,004) (0,04) (0	00400*/4077.00.00	NE) + 0 40004*/	(404 50 050)) (4	1000
0.004		Surcharge =		.08162*(1277.00-62	(5) + 0.12381^((461.50-250)] (1	1.3)}
0.861			0.861				-\

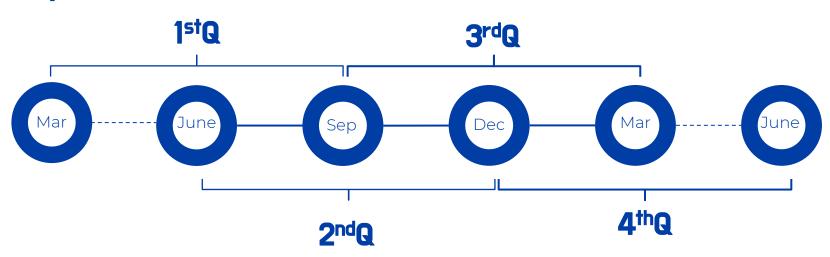
Significant Non Compliance Schedule



Significant Non Compliance Schedule



Rolling Quarters



- Chronic Effluent Violations: Violations as those in which 66% or more of all measurements taken during a six-month window exceed the daily maximum or the average limit for the same pollutant parameter
- Technical Review Violations: Violations in which 33% or more of all measurements taken during a six-month window exceed the product of the daily maximum limit or the average limit multiplied by applicable TRC (1.2) (ex. Permit limit of 2.0 x 1.2= 2.4)

Significant Non Compliance



1st quarter: March- August No SNC 2nd quarter: June - November TRC violation



Sampling Parameters

- All local limits must be sampled at least once per permit cycle
- Categorical limits are sampled at least semiannually
- Surcharge parameters (COD, BOD, TSS) sampled semiannualy or quarterly depending on trends.
- Must resample within 30 days of an exceedance. Highly recommend sampling 3 times in order to stay out of SNC.
- If Industry identified the exceedance, the SIU/IU must notify the POTW within 24 hours of becoming aware of the violation.



Streamlining Updates

Slug control plan, SNC, best management practices

Slug control plan

- Slug control plans must be specified for the SIU's permit
- SIU 's must notify the POTW of any changes at their facility affecting the potential for a slug discharge.
- Slug control plans will be evaluated annually

Significant Noncomplaince

- Definition has been expanded to include additional types of Pretreatment Standards and Requirements
- 40 CFR 403.8(f)(2)(viii)(H) Any other violation or group of violation, which may include a violation of Best Management Practices, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment program.

Best Management Practices

- Permits must contain any BMPs required by a Pretreatment Standard, local limit, state, or local law.
 - TOMPs
 - Slug Control Plans
 - Pollution Prevention Plan
- SIUs **and POTWs** are required to maintain BMP documentation for three (3) years.

Stormwater Do's and Don'ts

Thanks!

Do you have any questions?

Katherina.kang@cityofcarrollton.com Office: (972) 466-3058

Cell: (469) 381-4855

