

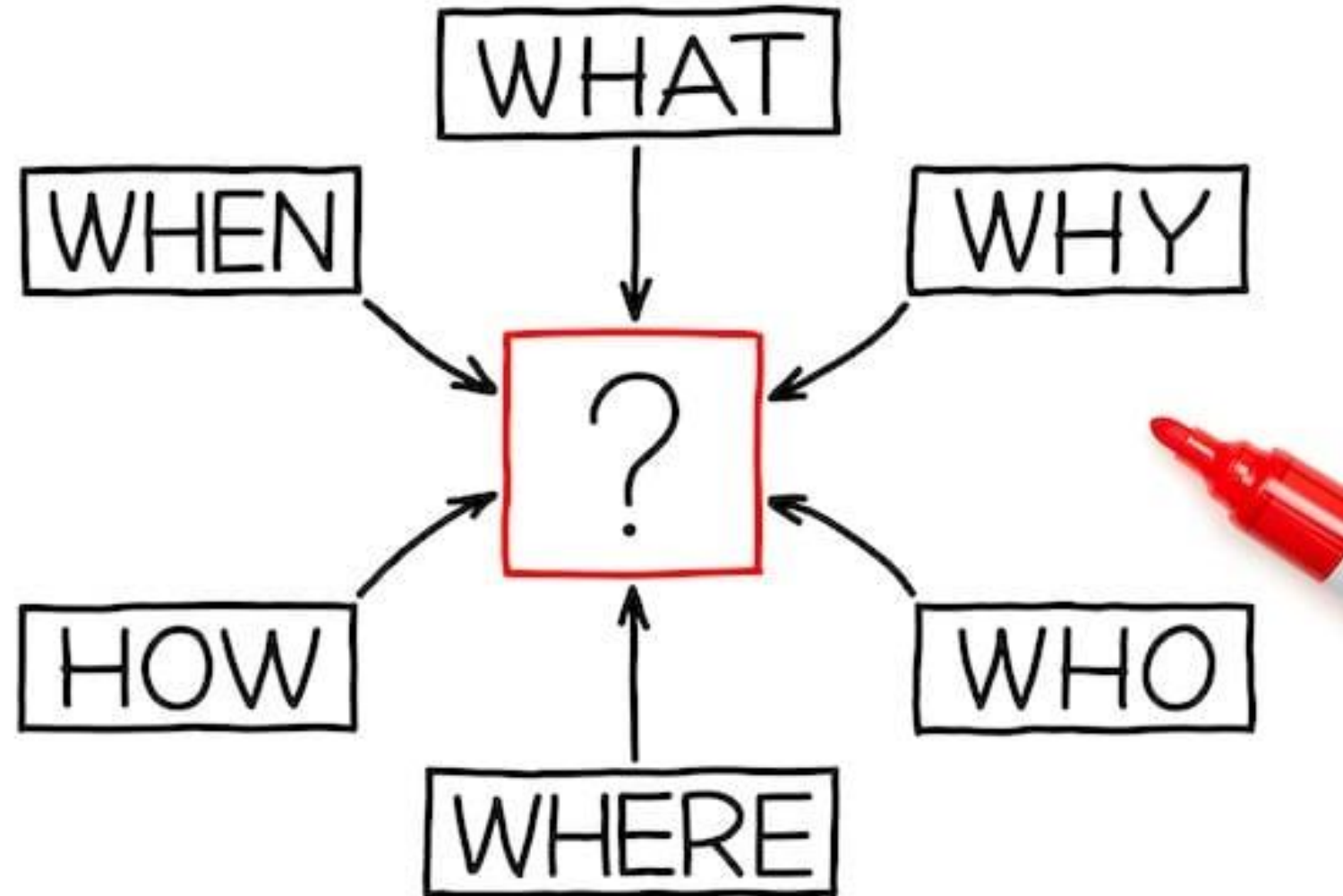
Industrial User Surveys

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City of Pearland



The 5 W's of Industrial User Surveys and More

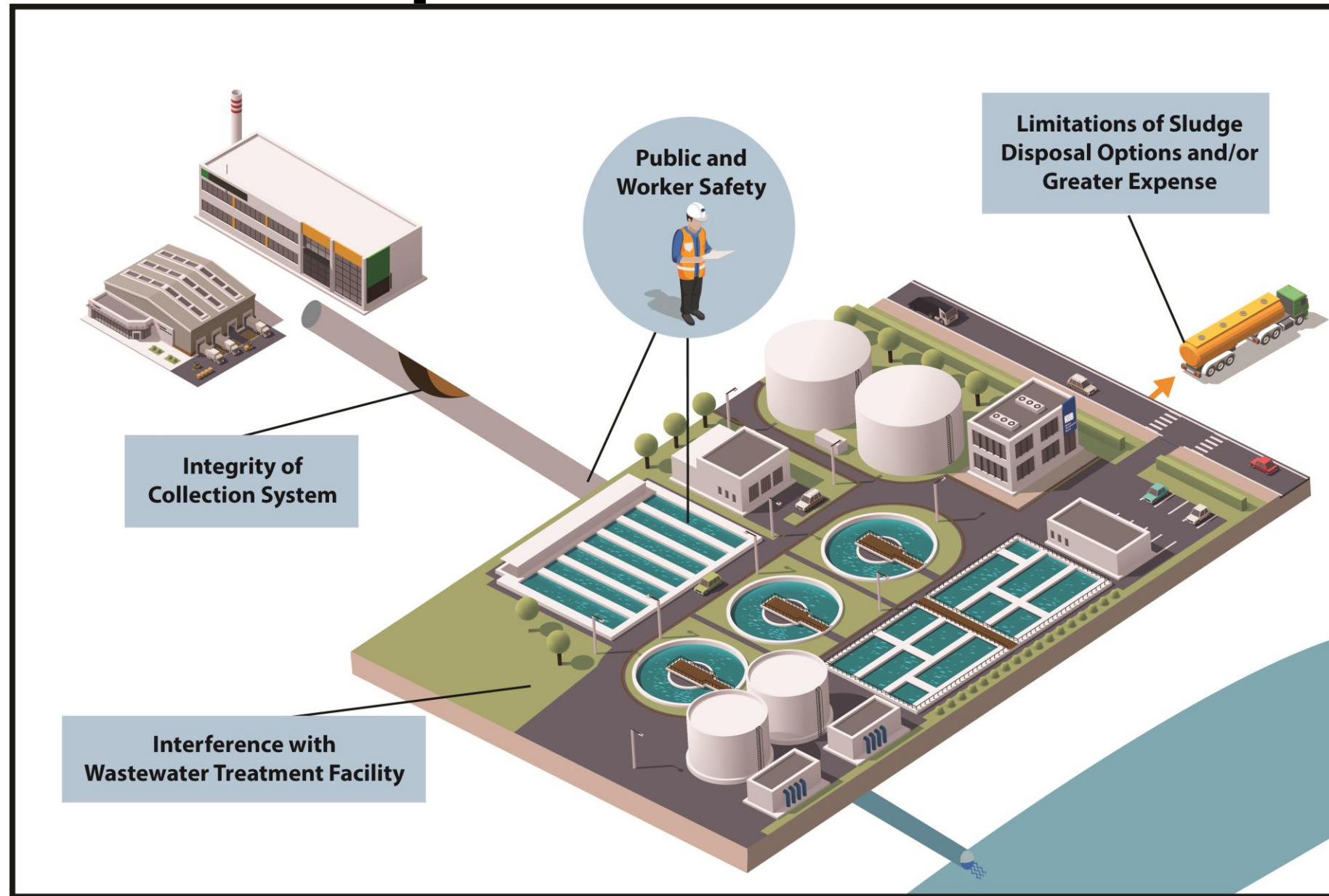




What is an Industrial User (IU)?

- **Defined by EPA** – *A source of indirect discharge of pollutants into a POTW from any non-domestic source regulated under section 307(b), (c), or (d) of the Federal Water Pollution Control Act (Clean Water Act). [40 CFR 403.3(i)(j)]*
- **Industry that discharges regulated pollutants under the Pretreatment Regulations.**

What Is Purpose of IU Survey?





Know Who Is Discharging To Your System

40 CFR 403.8(f)(2)(i-iii)

- Identify and locate all possible IUs
- Identify the character and volume of pollutants
- Notification of IUs of applicable Pretreatment Standards



Objective of the IU Survey

- To identify any industrial users whose discharge triggers the requirement to develop a pretreatment program.
- Chapter **40 CFR 403** requires federal, state, and local government, industry, and the public to implement national pretreatment standards to protect treatment systems and the public.



When To Do IU Survey

The permittee shall conduct an Industrial Waste Survey (IWS):

- any time a new industrial user proposes to discharge within its jurisdiction;
- an existing user proposes to make a significant change in its discharge;
- or at an alternative minimum, once every permit cycle.



NPDES/TPDES Requirement



SCHEDULE OF COMPLIANCE FOR PRETREATMENT PROGRAM DEVELOPMENT

ACTIVITY NUMBER	ACTIVITY	DATE
	<p>Submissions required by the Activity Nos. 2-6 listed below shall be made to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. Initially, Activity Nos. 3, 4, 5, and 6 should be submitted in draft form.</p>	
1.	<p>Submit an industrial user (IU) survey which consists of a qualitative analysis of pollutants being contributed by IUs in its entire municipal system (including all treatment plants). In accordance with 40 Code of Federal Regulations (CFR) §§403.8(f)(2)(i)-(ii) and 403.12(i)(1), IUs should be asked to provide, the names, addresses, contact person, and information on the type and approximate quantity of pollutants discharged into the system. For guidance on the procedure, see the U.S. Environmental Protection Agency's <i>Guidance Manual for POTW Pretreatment Program Development</i>, October 1983, Chapter 2, Appendix H. This information may be derived from knowledge of the facility's processes and should not be based on sampling at the source.</p> <p>The IU survey must identify significant industrial users (SIUs), including those categorical industrial users subject to categorical pretreatment standards under Chapter I, Subchapter N, and specifying the citations, categories, and subcategories from the 40 CFR which are applicable to such CIUs. The permittee should submit the information in tabular form, using the example table format provided.</p> <p>The TCEQ Pretreatment Team will notify the permittee regarding the results of the IU survey, and whether the permittee will be required to continue the program development beyond Activity No. 1. If pretreatment program development is necessary, the permittee will be required to continue the program development upon receiving notification from the TCEQ.</p> <p>If notified that a TPDES pretreatment program is not necessary, the permittee will submit an update of its IU survey with Worksheet 6.0 of the Domestic Technical Report, as part of the TCEQ Domestic Wastewater Permit Application, when next reapplying for this TPDES permit. The IU survey must include documented changes in industrial flow and/or characteristics of existing industries and any new contributing industries.</p>	2 months from the issued date of the permit

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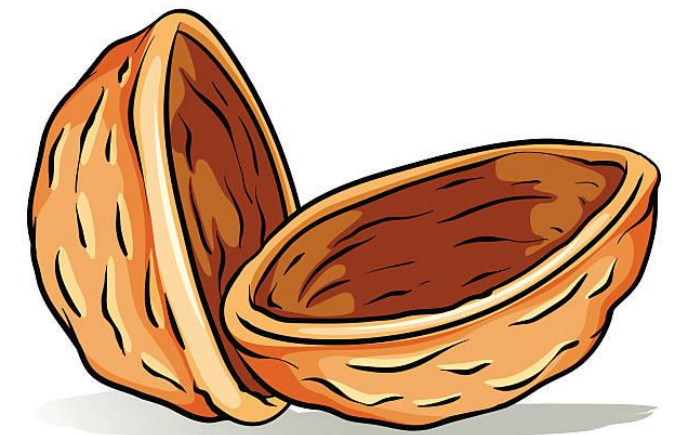
Doing Surveys in Pearland

- 2015
- 2018
- 2023
- Lessons Learned



Steps To Doing A Survey

- Need to identify and include every business and industry in the POTW system.
- Eliminate all facilities clearly outside your scope of concern and survey remaining IUs to collect necessary information.
- Conduct follow up activities, where needed, to obtain necessary information.
- Analyze and present data obtained in support or opposition of including for pretreatment.



Sources of Information:

- Water Utility/Sewer use records
- Chamber of Commerce
- Community/Economic or City Planning
- Physical survey by staff
- Phone Book, Internet
- Professional Directories





What To Include In Survey

- Include a **Cover Letter**:
 - Why required;
 - When due;
 - POTW contact information;
 - How information will be used.

Survey Details



PERMITS DIVISION

City of Pearland
3501 E. Orange Street
Pearland, Texas 77581-5416
Phone: 281.652.1813
pearlandtx.gov

Permit #: _____

WASTEWATER DISCHARGE SURVEY

Effective Date:	August 06, 2021		
Name of Business:	Pearland Concrete		
Business Address:	1122 Main St		
Mailing/Billing Address:			
City:	Pearland	State:	TX
		Zip:	77581
Business Phone:	832.767.4006		
Name of Primary Contact and Title:	Ivan Escobar		
Contact Telephone:	714.757.5304		
Email:	ivan.escobar@mcipcorp.com		



All About The Details

Provide brief description of manufacturing, production, or service activities performed:

Ready-mix concrete to 3rd parties

Standard Industrial Classification (SIC Code): 3273

In Business Since: 2022

Hours:

Number of Employees: 2

Seating Capacity: n/a



More Details...

Type of Wastewater Discharged: (Mark all that apply)			
Domestic waste (Restrooms, hand wash sinks, showers, etc.)	<input type="checkbox"/>	Process Wastewater (lint, grit, fats, oils, and grease)	<input type="checkbox"/>
Cooling Water (Contact or Non-contact)	<input type="checkbox"/>	Boiler/Tower Blow-down	<input type="checkbox"/>
Equipment / Facility Wash-down	<input type="checkbox"/>	Storm Water Run-off to Sewer	<input checked="" type="checkbox"/>
Air Pollution Control Unit	<input type="checkbox"/>	Other (Please Explain):	
Wastewater Discharged To and Volume Discharged: (Mark all that apply)			
Sanitary Sewer	<input type="checkbox"/>	GPD:	
Waste Hauled	<input type="checkbox"/>	GPD:	
Storm Sewer	<input checked="" type="checkbox"/>	GPD:	n/a based on rain fall
Evaporation	<input type="checkbox"/>	GPD:	
Other (Please Explain):		GPD:	
Monitoring Point(s): (List location of monitoring points)			



And Still More Details

Treatment System: (Describe wastewater treatment process)	
Not Applicable	
Interceptor Information (Sizing provided by licensed plumber, grease hauler, or blue prints):	
Interceptor Type: N/A	Capacity: gallons
Interceptor Type: N/A	Capacity: gallons
Interceptor Type: N/A	Capacity: gallons
Waste Hauler Company Name:	Contact Number:
Spill Prevention/Countermeasure Plan: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Part II: Operations



City of Pearland
3501 E. Orange Street
Pearland, Texas 77581
Phone: 281.652.1813
pearlandtx.gov

WASTEWATER DISCHARGE SURVEY (Part II)



It has been determined additional information is required regarding your facility; please complete the following survey and return within two weeks. This survey will be checked for accuracy and your facility may be subject to inspection. All discharges shall comply with all regulations contained in the City of Pearland Ordinance, and any applicable State and Federal Pretreatment Laws, Regulations, Standards, and/or Requirements.

Facility Operations Characteristics:

Number of employee shifts worked 24-day:

Average number of employees per shift:

Starting time of each shift:

1st: am/pm **2nd:** am/pm **3rd:** am/pm

NOTE: Complete this information for each product line. (Provide on back if necessary)

Primary product produced:

Raw materials and process additives used:



Production Information

Production process is:
Batch Continuous – Hours of operation: _____
Both: _____%Batch _____% Continuous
Average number of batches per 24-hour day: _____
Is production subject to seasonal variation?
If yes, briefly describe seasonal production:
Are there any process changes or expansions planned during the next three years? If yes, briefly describe (add comments on back if necessary):



Wastewater Information

Wastewater Information			
Place a check beside the category of business activity below if your facility employs processes in any of the industrial categories or business activities listed, <u>and</u> any of these processes generate wastewater or waste sludge.			
<input type="checkbox"/>	Adhesives	<input type="checkbox"/>	Gum & Wood Chemicals
<input type="checkbox"/>	Aluminum Forming	<input type="checkbox"/>	Inorganic Chemicals
<input type="checkbox"/>	Auto & Other Laundries	<input type="checkbox"/>	Iron & Steel
<input type="checkbox"/>	Battery Manufacturing	<input type="checkbox"/>	Leather Tanning & Finishing
<input type="checkbox"/>	Centralized Waste Treatment	<input type="checkbox"/>	Mechanical Products
<input type="checkbox"/>	Coal Mining	<input type="checkbox"/>	Nonferrous Metals
<input type="checkbox"/>	Coil Coating	<input type="checkbox"/>	Ore Mining
<input type="checkbox"/>	Copper Forming	<input type="checkbox"/>	Organic Chemicals
<input type="checkbox"/>	Electric/Electronic Computers	<input type="checkbox"/>	Paint & Ink
<input type="checkbox"/>	Electroplating	<input type="checkbox"/>	Pesticides
<input type="checkbox"/>	Explosives Manufacturing	<input type="checkbox"/>	Petroleum Refining
<input type="checkbox"/>	Foundries	<input type="checkbox"/>	Pharmaceuticals
<input type="checkbox"/>		<input type="checkbox"/>	Photographic Supplies
<input type="checkbox"/>		<input type="checkbox"/>	Plastic & Synthetic Materials
<input type="checkbox"/>		<input type="checkbox"/>	Plastics Processing
<input type="checkbox"/>		<input type="checkbox"/>	Porcelain Enamel
<input type="checkbox"/>		<input type="checkbox"/>	Printing & Publishing
<input type="checkbox"/>		<input type="checkbox"/>	Pulp & Paper
<input type="checkbox"/>		<input type="checkbox"/>	Rubber
<input type="checkbox"/>		<input type="checkbox"/>	Soaps & Detergents
<input type="checkbox"/>		<input type="checkbox"/>	Steam Electric
<input type="checkbox"/>		<input type="checkbox"/>	Textile Mills
<input type="checkbox"/>		<input type="checkbox"/>	Timber
<input type="checkbox"/>		<input type="checkbox"/>	Other
Other Business Activity:			
<input type="checkbox"/>	Beverage Bottler	<input type="checkbox"/>	Food/Edible Products Processor
<input type="checkbox"/>	Dairy Products	<input type="checkbox"/>	Slaughter/Meat Packaging/Rendering
Place a check beside each pretreatment device or process(es) used for treating wastewater or sludge.			
<input type="checkbox"/>	Air Flotation	<input type="checkbox"/>	Grease trap/interceptor
<input type="checkbox"/>	Centrifuge	<input type="checkbox"/>	Grit removal
<input type="checkbox"/>	Chemical Precipitation	<input type="checkbox"/>	Ion exchange
<input type="checkbox"/>	Chlorination	<input type="checkbox"/>	Neutralization/pH correction
<input type="checkbox"/>	Cyclone	<input type="checkbox"/>	Ozonation
<input type="checkbox"/>	Filtration	<input type="checkbox"/>	Reverse Osmosis
<input type="checkbox"/>	Flow Equalization	<input type="checkbox"/>	Screen
<input type="checkbox"/>	Grease or oil separation	<input type="checkbox"/>	Sedimentation
<input type="checkbox"/>	Other (describe):	<input type="checkbox"/>	Septic Tank
<input type="checkbox"/>		<input type="checkbox"/>	Solvent Separation
<input type="checkbox"/>		<input type="checkbox"/>	Spill Protection
<input type="checkbox"/>		<input type="checkbox"/>	Sump
<input type="checkbox"/>		<input type="checkbox"/>	Biological Treatment
<input type="checkbox"/>		<input type="checkbox"/>	Rainwater diversion/storage
<input type="checkbox"/>		<input type="checkbox"/>	Other chemical treatment (describe below)
<input type="checkbox"/>		<input type="checkbox"/>	No pretreatment provided

Laboratory Information

Any wastewater analyses that has been performed:

- **Accredited laboratory**
- **Attach copy of lab report**
- **Lab report should include:**
 - Date/time sample collected
 - Sample point collected
 - Type of sample (grab/composite)
 - Lab that performed analysis
 - Date of analysis
 - Analysis method
 - Chain of Custody





Priority Pollutant Scan (152)

Priority Pollutant Information: Please indicate in the chemical list below as suspect or known to be Absent or Present in manufacturing or service activity or generated as a by-product. If you are unable to identify the chemical constituents of products used that are discharged to wastewater, attach copies of the Safety Data Sheets (SDS).

	Suspected Absent	Known Absent	Suspected Present	Known Present	Known/ Suspected Concentration/day		Suspected Absent	Known Absent	Suspected Present	Known Present	Known/ Suspected Concentration/day
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I. Metals/Inorganics

II. Phenols/Cresols

III. Monocyclic Aromatics

IV. PCB's

V. Ethers

VI. Nitrosamines/Other Nitrogen Compounds

VII. Halogenated Aliphatics

VIII. Phthalate Esters

IX. Polycyclic Aromatic Hydrocarbons

X. Pesticides

XI. Non-Priority Pollutants Regulated Under
30 TAC Ch. 307

Industrial User Survey Results Table



Company Name	SIC	Description of Business Activities/Mfg Process	Business Address	
			Address	Zip Code
John Langrove Reclamation Facility (TX00116581)	4952	Wastewater Treatment Plant	3900 Magnolia Pkwy	77584
Forum Energy Technologies	3533	Manufacture oil field tools and equipment, machine processes, welding and painting	2005 Garden Rd	77581
Lighting Etc. Inc.	3646	Assemble components into fixtures	3809 Magnolia Pkwy	77584
Weatherford	1389	Drilling equipment rental	1612 Main	77581
Alamo Concrete Products Co.	3273	Ready mix concrete	8201 Industrial Rd	77584
L.R. West Mfg. Co. Inc.	3554	Cuts and assembles aluminum extrusion and coil to assemble an all aluminum shutter product.	1045 Hatfield	77588

Industrial User Survey Results Table



Water Usage/ Wastewater Flow	Specify the type of wastewater discharge to POTW			Response Received	Classification	Notes
	Zero Discharge	Domestic WW Only	Process WW Discharge	Yes/No	SIU/CIU	
4.0 MGD						
2261 GPD	X	X		Yes	CIU-Zero discharge	Process WW hauled; OWS for equipment wash-down
106 GPD		X		Yes	NSCIU	No process wastewater
2824 GPD		X		Yes	NSCIU	No process wastewater; OWS for vehicle/equipment wash-down
8098 GPD	X	X		Yes	CIU-Zero discharge	No process WW discharge to City; Process WW discharge TCEQ permit TXG111440
12.8 GPD		X		Yes	NSCIU	No process wastewater



FAQ's

Q. Should a facility that discharges Fats, Oils and/or Grease (FOG) into my collection system be considered a reportable Industrial User

A. No, from a regulatory standpoint FOG is not a Pretreatment issue. However, if the discharge is substantial enough, or if there is a sufficient number of such discharges in the community to cause collection system, pump station, or treatment plant issues, the community should develop, implement, and enforce a FOG management program.



FAQ's

Q. What if I have more than one wastewater treatment facility?

A. Report industrial users for each wastewater facility on separate spreadsheets. IF 5 wastewater facilities, THEN 5 separate spreadsheets.



FAQ's

Q. What if I am not sure if I report an Industrial User?

A. Reach out to other resources, such as your State Pretreatment Representative or other Approved Pretreatment Municipalities; they are great help!



CITY OF
PEARLAND
WATER



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Superintendent*
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