

# MUNICIPAL WASTEWATER PERMITS

**TCEQ Water Quality & Stormwater Seminar  
September 17, 2014**

**Dex Dean & Becca Moore**

**512-239-4671**



# APPLICATION FORMS

**10053-inst**

- **Instructions for Completing the Domestic Wastewater Permit Application (PDF)**

**10053**

- **Domestic Wastewater Permit Application Administrative Report (PDF)**

**10054**

- **Domestic Wastewater Permit Application Technical Report (PDF)**

# TYPES OF APPLICATIONS

## New\*

Brand new facility

Expired permits re-apply as new facilities

## Renewal

Continue an existing authorization

Can include a minor amendment

## Amendment

Major Amendment\*- substantially change or relax the permit

Minor Amendment- change permit without relaxing the permit

*\*Requires additional notice to adjacent and downstream landowners*

# PERMIT CLASSIFICATIONS

## Minor < 1.0 MGD

Standard pollutant screening

Standard pretreatment requirements  
(for POTWs)

## Major $\geq$ 1.0 MGD

Full pollutant screening

Biomonitoring

Possibly expanded pretreatment

# APPLICATION HELP



*If I have questions...*

- Call (512) 239-4671



*If I have lots of questions or unique issues...*

- Consider pre-application meeting with TCEQ staff



*If I need to renew my existing permit...*

- Submit application 180 days before the existing permit expires

# HELPFUL WEBSITE RESOURCES

 For the **Public**

 For **Businesses**

 For **Governments**

 **Air**

 **Land**

 **Water**

Cleanups, Remediation

Emergency Response

Licensing

**Permits, Registration**

Preventing Pollution

Recycling

Reporting

Rules

Search Central Registry

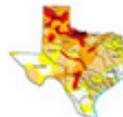
▶ by Permit/Registration  
(program ID number)

▶ by Name/Company  
(customer)

▶ by Facility/Site  
(regulated entity)

## IN FOCUS

### Texas Drought

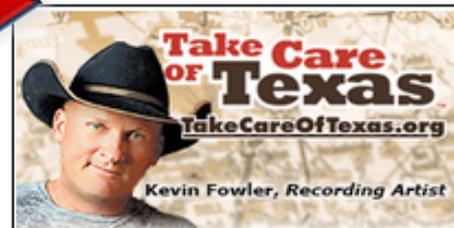


[LCRA Emergency Order](#)

[Find Drought Information](#)

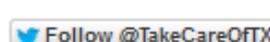
[View Map: Drought Impact on Texas Surface Water](#)

[TCEQ Environmental Trade Fair and Conference: Register Now](#)



Take Care of Texas  
TakeCareOfTexas.org  
Kevin Fowler, Recording Artist

 Like 2.2k Like us on Facebook for the Tip of the Week.

 Follow @TakeCareOfTX

## HOW DO I...

[Make an environmental complaint](#)

[Sign up for e-mail updates](#)

[Get involved](#)

[Offer comments](#)

[Track complaints, enforcement](#)

[Know if I need a permit or license](#)

[Find the status of a permit, license](#)

[Check air quality in my area](#)

## HOT TOPICS

[Commission adopted Small Municipal Separate Storm Sewer System \(MS4\) General Permit TXR040000 on Dec. 11](#)

## Commissioners' Corner

[Agenda Meetings and Work Sessions](#)

[View Pending Matters and Filings Documents](#)

[Orders Issued](#)

[About the Commissioners](#)

[Executive Director's Agency](#)

## NEWS RELEASES

[Newsroom](#)

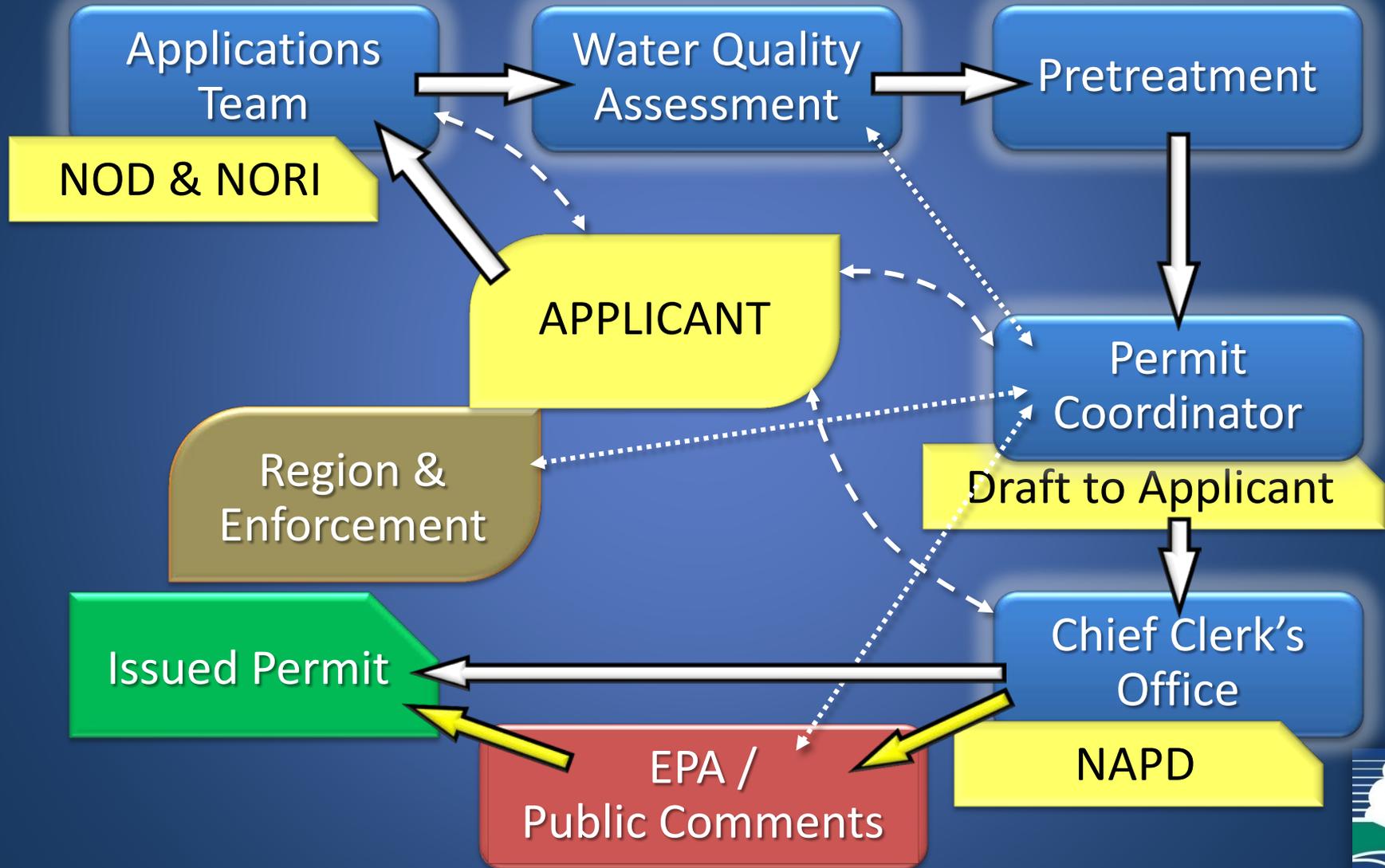
### Latest Releases:

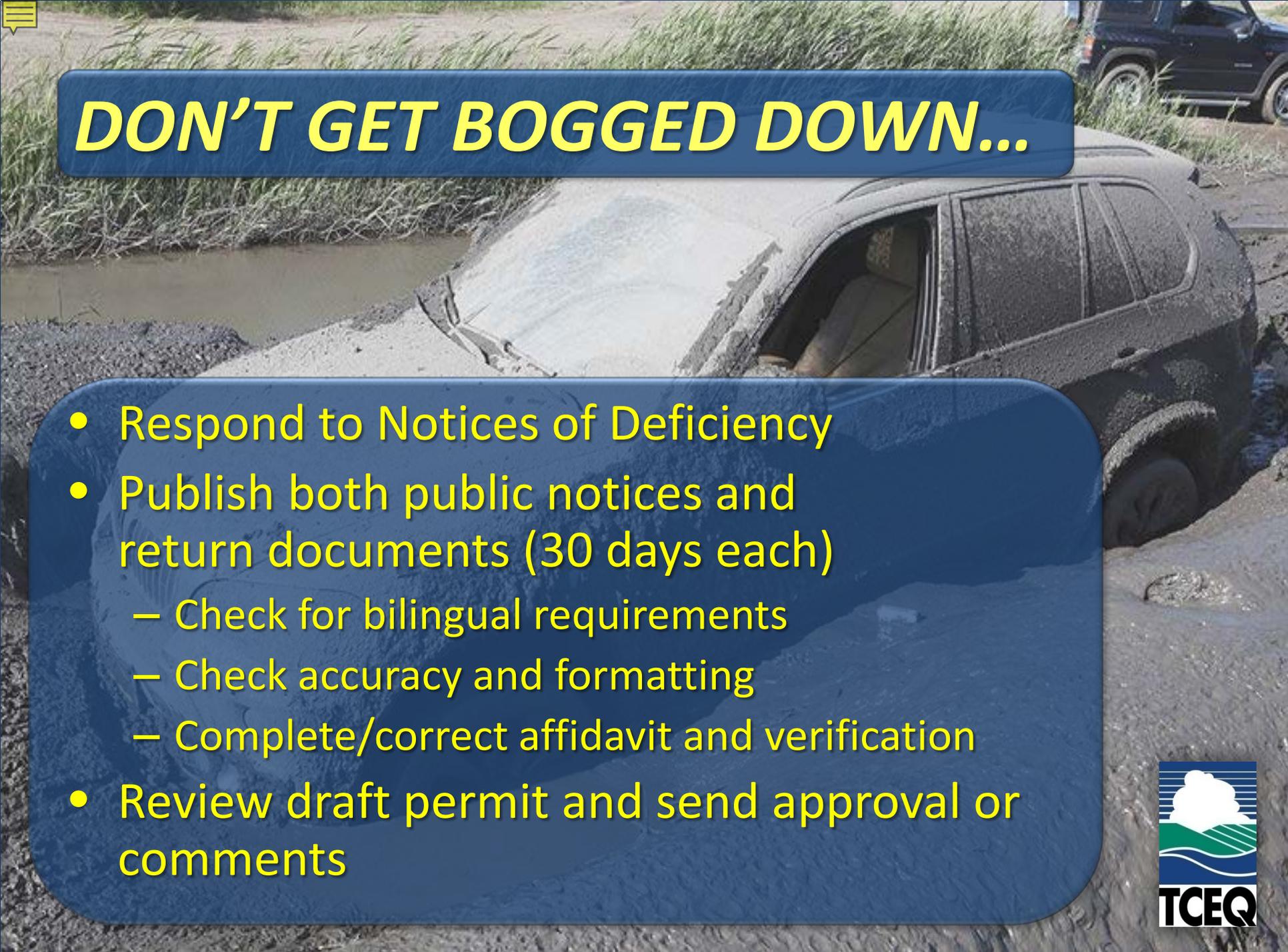
[Texas Reporting Requirements for Recycling Revenues](#)  
February 28, 2014

[TCEQ Approves \\$563,170 for Water Treatment Plant](#)  
February 26, 2014



# THE PERMITTING PROCESS





# ***DON'T GET BOGGED DOWN...***

- Respond to Notices of Deficiency
- Publish both public notices and return documents (30 days each)
  - Check for bilingual requirements
  - Check accuracy and formatting
  - Complete/correct affidavit and verification
- Review draft permit and send approval or comments

# ADMINISTRATIVE REVIEW: AVOID COMMON ERRORS



Fill out all contact information



Sign the form



Provide complete maps



Arrange to have the application displayed in a public building



Update the location description (as needed)

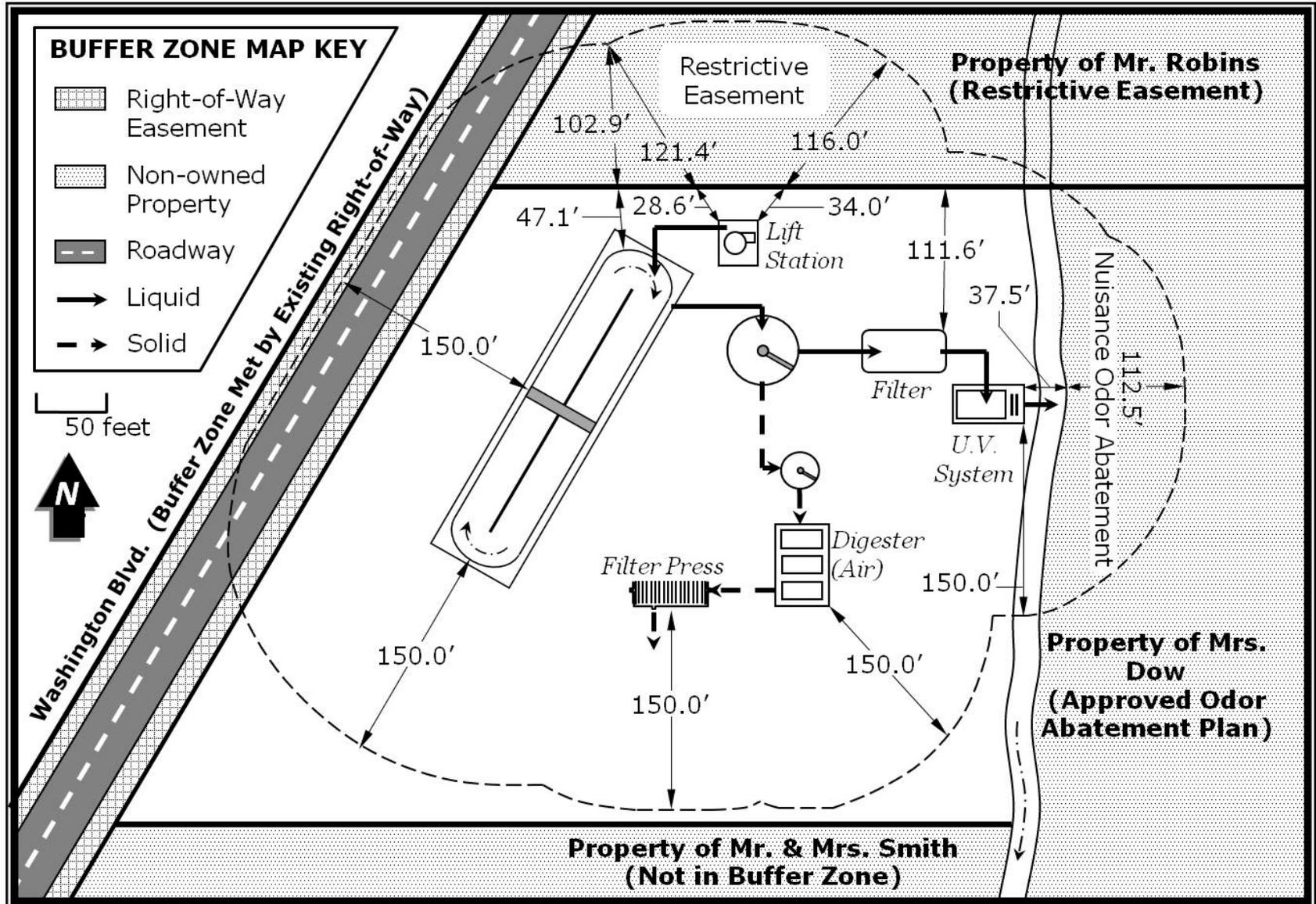


Provide a complete landowner list (as needed)

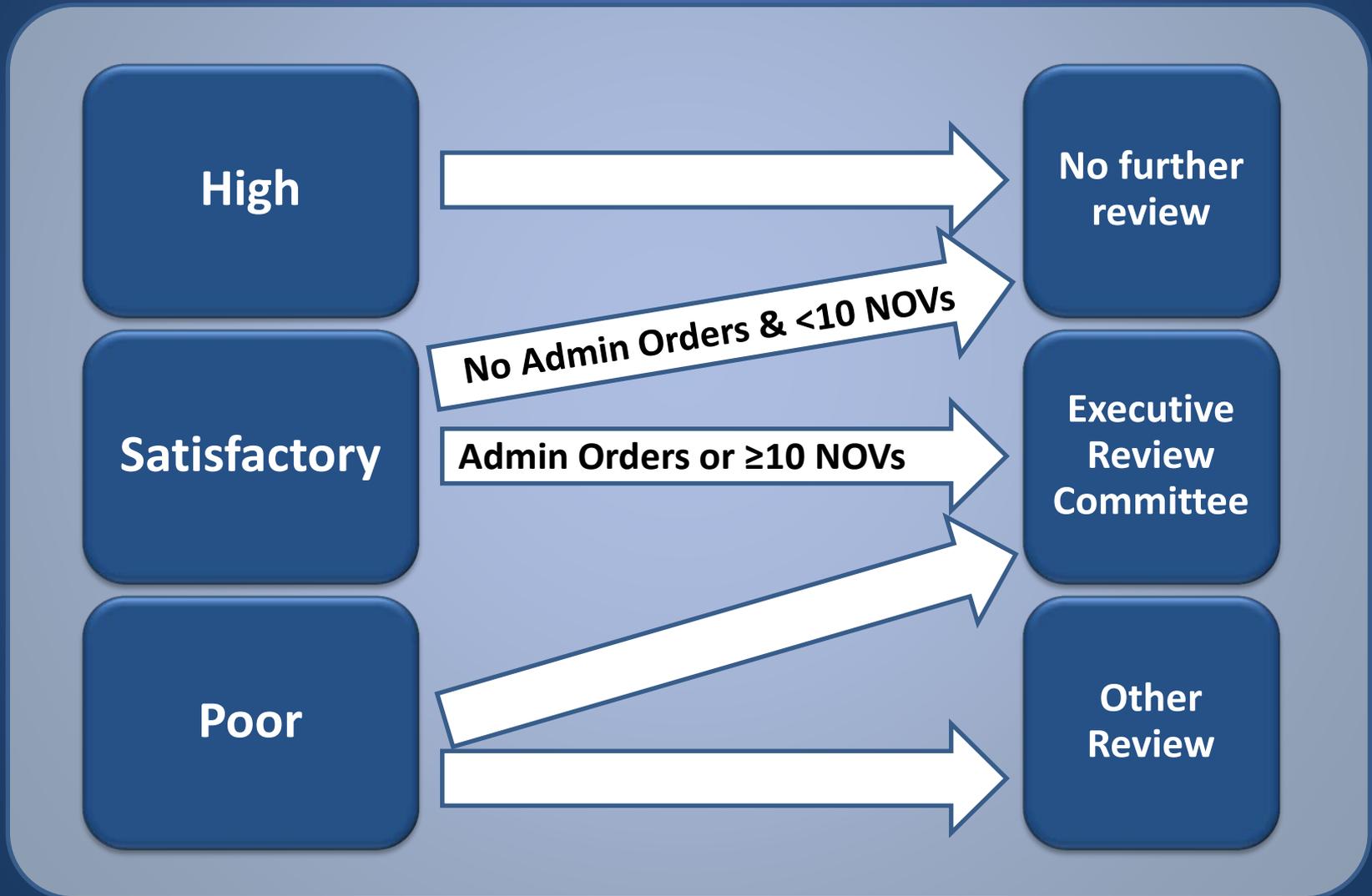
# TECHNICAL REVIEW: AVOID COMMON ERRORS

- ✓ Address Other Requirements
- ✓ Provide a clear buffer zone map: should be 8.5 X 11, black and white, not google maps
- ✓ Provide a complete, current pollutant analysis with lab sheets
- ✓ Include justification for unbuilt phases or flow request
- ✓ Provide description of treatment process, list unit dimensions, complete process flow chart

# EXAMPLE 8 – Buffer Zone Map



# COMPLIANCE HISTORY REVIEW





# REGIONALIZATION

**State policy prefers regional or area-wide wastewater treatment systems over a large number of smaller treatment systems**

**New and expanding plants contact existing wastewater treatment providers**

**Provide a 3 mile radius map from the point of discharge that lists all permitted municipal facilities or collection systems**

**CCN issues (512-239-4691)**

# ANTI BACKSLIDING

Any change in a permit that leads to less stringent conditions

What is backsliding?

**BACKSLIDING**

Federal Anti-backsliding regulations 40 CFR Part 122.44 (l)(2)(i)

Material alteration

**BACKSLIDE WITH CARE**

New information

Are there any circumstances where a less stringent permit can be issued?

No control, no remedy

Appropriate treatment can't meet limit



# WHAT'S IN YOUR PERMIT

**BOD, TSS, DO,  
NH3-N, bacteria,  
others**

- Segment & geographic issues
- Treatment technology
- Past performance

**Other  
Requirements**

- Segment & geographic issues
- Past performance
- Permit specific issues

**Pretreatment  
Requirements**

- POTW
- Full program required for >4.0 MGD

**Biomonitoring  
Requirements**

- Major permits

**Whole Effluent  
Toxicity (WET)**

- Major permits
- Past performance

# TCEQ/EPA BACTERIA LIMITS

## Bacteria limits in all discharge permits

Typically 126 CFU per 100 mL *E. coli* for freshwater

Typically 35 CFU per 100 mL enterococci for saltwater

May be less with TMDL

## Minimum Required Bacteria Monitoring Frequency (30 TAC 319.9 Table 2)

Flow (MGD)	Chlorine Systems	Ultraviolet Systems	Natural Systems
>10	5/week	Daily	Daily
>5-10	3/week	Daily	5/week
>1-5	1/week	Daily	3/week
>0.5-1.0	2/month	Daily	1/week
0.1-0.5	1/month	5/week	2/month
<0.1	1/quarter	5/week	1/month

# GEOMETRIC MEAN FOR BACTERIA

By  
hand...

$$\sqrt[n]{S_1 \times S_2 \times \dots \times S_n}$$

In  
Excel...

=GEOMEAN  
(choose cells)

On the  
web...

Search for “Geometric  
Mean Calculator” on the  
TCEQ webpage

Sample 1	5
Sample 2	7
Sample 3	1000
Sample 4	2
Average	254
Geomean	16

# BEFORE ACCEPTING WASTE...



Is it good for  
my treatment  
process?



Do I have  
organic  
capacity?



Domestic septage (septic tanks)  
or chemical toilet waste



Domestic WWTP biosolids



Grit or grease

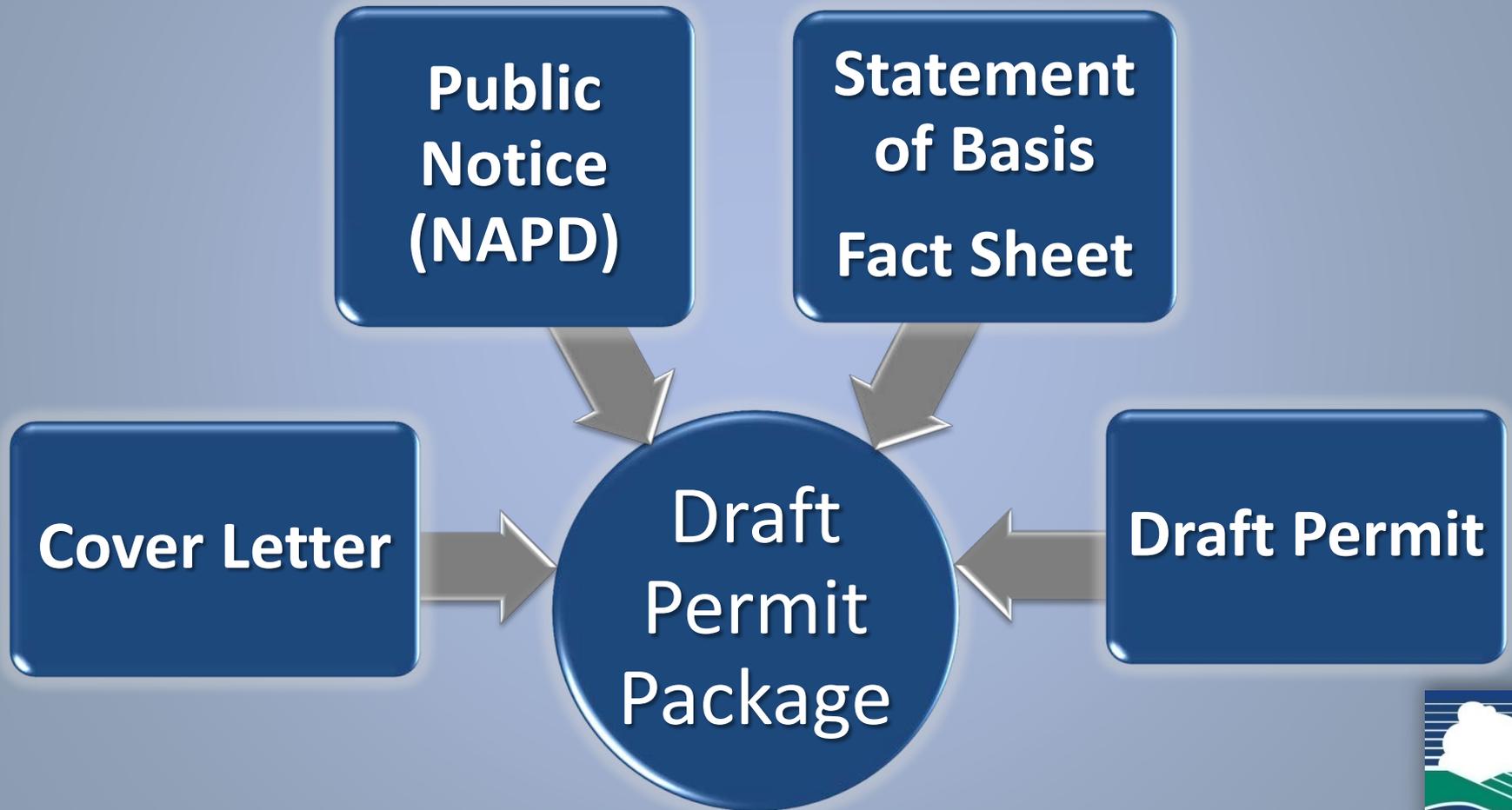


Brewery, bottling, and food  
processing wastewater

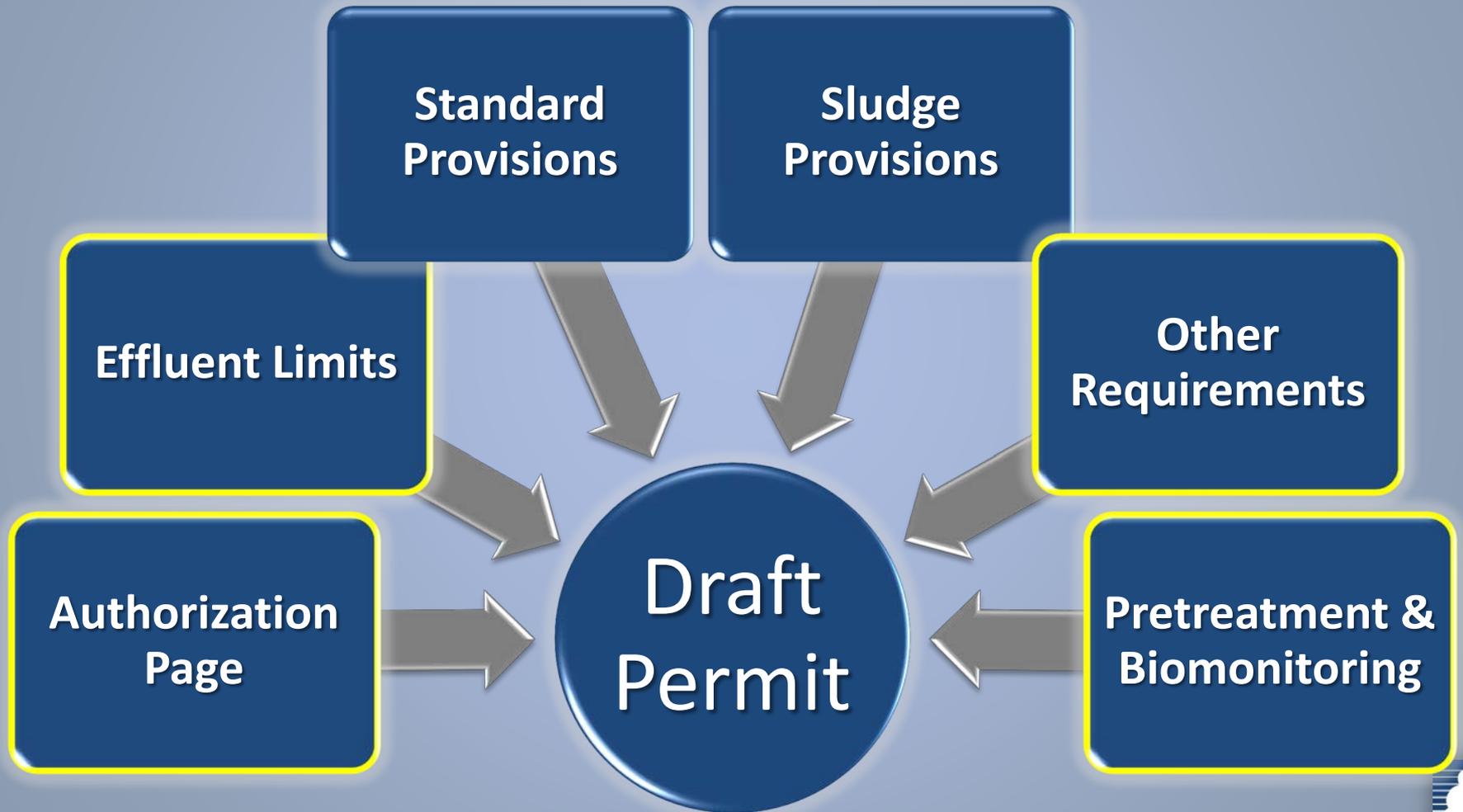


Animal feed or animal  
processing wastewater

# DRAFT PERMIT PACKAGE



# KNOWING YOUR DRAFT PERMIT



# RECENT CHANGES

Samples taken on or after July 14, 2014 must use the **new minimum analytical level (MAL)**

**New application forms** are now available

MAL	Lab Result (one sample)	Valid?
10 µg/L	15 µg/L	Yes
10 µg/L	5 µg/L	Yes
10 µg/L	< 5 µg/L	Yes
10 µg/L	< 15 µg/L	No – retest

# 2010 Implementation Procedures



Nutrient criteria (as chlorophyll  $\alpha$ ) has been added for reservoirs



Applies to all new or expanding permits larger than 0.25 MGD, and renewals on a case-by-case basis



May result in total nitrogen or total phosphorus limits



For details refer to *Procedures to Implement the Texas Surface Water Quality Standards (2010)* and 30 TAC, Chapter 307, Appendix F

# CONTACT INFORMATION



**Dex Dean**



**Dex.Dean@tceq.texas.gov**



**512-239-4570**



**Becca Moore**



**Rebecca.Moore@tceq.texas.gov**



**512-239-0058**

# ANY QUESTIONS?



# Supplemental Information



# PROGRAM LOCATION QUICK REFERENCE



# PROGRAM LOCATION QUICK REFERENCE

## Office of Water

Water Availability

*Water Quality*

Water Quality Planning

Water Supply

## Water Quality Permits

Industrial

*Municipal  
(Domestic)*

Stormwater

Agriculture

# HELPFUL RESOURCES



TCEQ website: <http://www.tceq.state.tx.us>



Keyword/forms search (database, Spanish templates, 10053, 10054, municipal wastewater permits, etc.)



Central Records 512-239-2900



Chief Clerk's Office: 512-239-3300



Water Quality Division: 512-239-4671



Regional Offices

# GET FORMS ON THE WEBSITE

The screenshot shows the TCEQ website home page. A green circle with the number '1' is overlaid on the top left. The page features a navigation menu on the left with categories like 'For the Public', 'For Businesses', and 'For Governments'. A central banner displays 'AIR', 'LAND', and 'WATER' with a scenic image of a river. Below the banner, there are sections for 'IN FOCUS', 'HOW DO I...', 'Commissioners' Corner', and 'HOT TOPICS'. A sidebar on the left contains a search bar and various service links.

A vertical menu of website services is shown, enclosed in a yellow box. A green circle with the number '2' is overlaid on the right side of the menu. The services listed are: Data, Forms, Maps, Public Notices, Publications, Records, Webcasts, and TCEQ Online Services: e-Pay, Permits, Licenses, Reporting, Filing, Comments. A red dashed line connects the 'Forms' link in this menu to the 'Forms Search' section on the right.

The screenshot shows the 'Forms Search' page. A green circle with the number '3' is overlaid on the right side. The page has a title 'Forms Search' and a sub-header 'Find TCEQ forms that are available on our website, or contact information to obtain those that are not available online.' Below this is a list of search criteria: Current Forms Search, Keyword, Form Number, Subject, and Explanation of Search Results. A link to 'View Complete List of Forms (288K)' is provided. A paragraph explains that forms are available in PDF or Word format, or as HTML/Excel files. Below the text are three search sections: 'Current Forms Search' with a 'Keyword' field and 'Submit'/'Clear' buttons; 'Form Number:' with a field and 'Submit'/'Clear' buttons; and 'Subject:' with a dropdown menu and 'Submit' button. A red oval highlights the 'Form Number:' section, and a white arrow points from it towards the 'Forms Search' page.



# KEEPING TRACK OF PERMIT STATUS PART 1



For the **Public**

For **Businesses**

For **Governments**

**Air**

**Land**

**Water**

- Cleanups, Remediation
  - Emergency Response
  - Licensing
  - Permits, Registration
  - Preventing Pollution
  - Recycling
  - Reporting
  - Rules
- Search Central Registry
- ▶ by Permit/Registration (program ID number)
  - ▶ by Name/Company (customer)
  - ▶ by Facility/Site (regulated entity)

## IN FOCUS

### Texas Drought



[LCRA Emergency Order](#)

[Find Drought Information](#)

[View Map: Drought Impact on Texas Surface Water](#)

[TCEQ Environmental Trade Fair and Conference: Register Now](#)

**Take Care of Texas**  
TakeCareOfTexas.org  
Kevin Fowler, Recording Artist

Like 2.2k Like us on Facebook for the Tip of the Week.

Follow @TakeCareOfTX

## HOW DO I...

[Make an environmental complaint](#)

[Sign up for e-mail updates](#)

[Get involved](#)

[Offer comments](#)

[Track complaints, enforcement](#)

[Know if I need a permit or license](#)

[Find the status of a permit, license](#)

[Check air quality in my area](#)

## HOT TOPICS

[Commission adopted Small Municipal Separate Storm Sewer System \(MS4\) General Permit TXR040000 on Dec. 11](#)

## Commissioners' Corner

[Agenda Meetings and Work Sessions](#)

[View Pending Matters and File Documents](#)

[Orders Issued](#)

[About the Commissioners](#)

[Executive Director's Agendas](#)

## NEWS RELEASES

[Newsroom](#)

**Latest Releases:**

[Texas Reports Electronics Recycling Results](#)  
February 28, 2014

[TCEQ Approves Fines Totaling \\$563,170](#)  
February 26, 2014



# KEEPING TRACK OF PERMIT STATUS PART 2

## Site Navigation

Cleanups, Remediation

Emergency Response

Licensing

Permits, Registration

Preventing Pollution

Recycling

Reporting

Rules

 Data

 Forms

 Maps

 Public Notices

You are here: [Home](#) / [Permitting](#) / [Status of Permits and Registrations](#)

## Status of Permits and Registrations

Pending applications and completed permits and registrations--everything from oil refineries to small water systems, from chemical complexes to dry cleaners, from landfills to sludge transporters.

### Status of Applications

#### Status of Air Permits and Permit Applications

Find pending and completed air permits.

#### Status of Stormwater and Wastewater Applications and Specifications

Track the status of applications for general permits, applications for individual permits, and approval of wastewater system design plans and specifications.

#### Status of Waste Permits and Registrations

Find out about pending and recent waste applications.

#### Status of Water Supply Permits and Applications

Track the status of water supply permit applications and system plans and specifications that are under review.

#### Public Participation in Environmental Permitting

Describes the review process for certain types of permits, and how you can comment and participate in other ways.

#### Records Requests

How to place a request for records not available online.

# KEEPING TRACK OF PERMIT STATUS PART 3

## Site Navigation

Cleanups, Remediation

Emergency Response

Licensing

Permits, Registration

Preventing Pollution

Recycling

Reporting

Rules

You are here: [Home](#) / [Permitting](#) / [Status of Permits and Registrations](#) / [Status of Stormwater and Wastewater Applications and Specifications](#)

## Status of Stormwater and Wastewater Applications and Specifications

Track the status of applications for general permits, applications for individual permits, and approval of wastewater system design plans and specifications.

### [Track Approval of Wastewater System Plans and Specifications](#)

Find out whether the TCEQ has approved the plans and specifications submitted for a wastewater system construction or maintenance project.

### [Status of Water-Quality General Permit Authorizations and Applications](#)

Check the status of permits or applications covered under water-quality general permits, including stormwater.

### [Status of Water-Quality Individual Permit Applications](#)

Check the status of applications for a water-quality individual permit, including stormwater.

# KEEPING TRACK OF PERMIT STATUS PART 4



## Water Quality Permit Applications Query

The queries allow you to check the status of a water quality applications. The database includes real time information about applications for individual permits, registrations and authorizations (it does not include authorizations under a general permit) for:

- Concentrated Animal Feeding Operation (CAFO)
- Conventional Water Treatment
- Domestic Reuse
- Municipal Separate Storm Sewer System (MS4) Phase I
- Industrial Stormwater
- Industrial Wastewater
- Public Domestic Wastewater
- Private Domestic Wastewater
- Reverse Osmosis Water Treatment
- Sludge Class A
- Sludge Class B
- Sludge Disposal
- Sludge Processing

Your request may take a few minutes to process. The results will appear in the search results section at the bottom of the page.

State Permit No.  [Add](#)

[Remove](#)

[Search](#)

[Clear](#)

[AdvancedSearch](#)

# KEEPING TRACK OF A PERMIT STATUS PART 5

[Get Application Status Extract](#)

## Search Result

No.	AI	PROPOSED AUTH TYP	PROPOSED APP TYP	APP STATUS	APPLICANT NAME	APPLICANT ADDRESS	FACILITY COUN
1	WQ0010115001	PUB DOM WW	RENEWAL	APPROVED	CITY OF SCHULENBURG	PO BOX 8 SCHULENBURG, TX 78956-0008;PO BOX 8 SCHULENBURG, TX 78956-0008	FAYETTE
2	WQ0010115001	PUB DOM WW	RENEWAL	APPROVED	CITY OF SCHULENBURG	PO BOX 8 SCHULENBURG, TX 78956-0008;PO BOX 8 SCHULENBURG, TX 78956-0008	FAYETTE
3	WQ0010115001	PUB DOM WW	RENEWAL	PENDING	CITY OF SCHULENBURG	PO BOX 8 SCHULENBURG, TX 78956-0008;PO BOX 8 SCHULENBURG, TX 78956-0008	FAYETTE

NewSearch

# PERMIT SEARCH PART 1



[» Questions or Comments](#)

[TCEQ Home](#)

[Application Search](#)

[Permit Search](#)

## Water Quality Permit Query

The queries allow you to check the status of a water quality permit. The database includes real time information about individual permits, registrations and authorizations (it does not include authorizations under a general permit) for:

- Concentrated Animal Feeding Operation (CAFO)
- Conventional Water Treatment
- Domestic Reuse
- Municipal Separate Storm Sewer System (MS4) Phase I
- Industrial Stormwater
- Industrial Wastewater
- Public Domestic Wastewater
- Private Domestic Wastewater
- Reverse Osmosis Water Treatment
- Sludge Class A
- Sludge Class B
- Sludge Disposal
- Sludge Processing

Your request may take a few minutes to process. The results will appear in the search results section at the bottom of the page.

State Permit No.  [Add](#)

[Remove](#)

EPA ID.  [Add](#)

**OR**

[Remove](#)

# PERMIT SEARCH PART 2

Authorization Type (required):	<input type="text" value="PUBLIC DOMESTIC WASTEWATER"/> <input type="text" value="PRIVATE DOMESTIC WASTEWATER"/> <input type="text" value="INDUSTRIAL WASTEWATER"/>	SIC Code:	<input type="text"/> <input type="text"/> <input type="text"/>
Authorization Status (required):	<input type="text" value="ACTIVE"/> <input type="text" value="CANCELLED"/> <input type="text" value="EXPIRED"/>	NAICS Code:	<input type="text"/> <input type="text"/> <input type="text"/>
TPDES (required):	<input type="text"/>	CN:	<input type="text"/>
Facility Disposal Method (required):	<input type="text"/>	Applicant Name:	<input type="text"/>
Enter any other relevant information (optional):		Facility Name:	<input type="text"/>
EPA Facility Classification:	<input type="text"/>	Primary County:	<input type="text" value="ANDERSON"/> <input type="text" value="ANDREWS"/> <input type="text" value="ANGELINA"/>
Animal Type:	<input type="text" value="CATTLE (BEEF)"/> <input type="text" value="CHICKENS OR BROILERS (DRY)"/> <input type="text" value="DUCKS (DRY)"/>	Primary Region:	<input type="text" value="REGION 01 - AMARILLO"/> <input type="text" value="REGION 02 - LUBBOCK"/> <input type="text" value="REGION 03 - ABILENE"/>
Treatment Component:	<input type="text" value="ACTIVATED CARBON - GRANULAR"/> <input type="text" value="ACTIVATED SLUDGE - COMPLETE MIX"/> <input type="text" value="ACTIVATED SLUDGE - CONTACT STABILIZATION"/>	Secondary County:	<input type="text" value="ANDERSON"/> <input type="text" value="ANDREWS"/> <input type="text" value="ANGELINA"/>
Authorization Ended - Begin Date:	<input type="text"/>	City:	<input type="text"/>
Authorization Ended - End Date:	<input type="text"/>	Segment:	<input type="text" value="0100"/> <input type="text" value="0200"/> <input type="text" value="0300"/>
Expiration Date - Begin Date:	<input type="text"/>	Basin:	<input type="text" value="01"/> <input type="text" value="02"/> <input type="text" value="03"/>
Expiration Date - End Date:	<input type="text"/>		
Authorization Approved - Begin Date:	<input type="text"/>		
Authorization Approved - End Date:	<input type="text"/>		
<input type="button" value="Search"/> <input type="button" value="Clear"/>			

# COMMISSIONERS' INTEGRATED DATABASE PART 1

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Home | AIR | LAND | WATER | Public | Businesses | Governments

CID You are here: Home → Agency → View Pending Matters and File Documents → TCEQ Commissioners' Integrated Database

Search [ ] A to Z Index | Org Chart

## TCEQ Commissioners' Integrated Database

[Search One](#) will show you the [status of matters](#) pending or that have gone before the Commission for approval and associated documents.  
[Search Two](#) will show you comments, hearing requests, and requests for public meetings, etc.  
[Glossary of Terms](#) used. (In PDF. Help with [PDF](#).)

Note: the search results may take longer than a minute for processing.

### Search One: Status of Matter(s)

**Step One:** Select type of Items to view and the sort order.

Open Items  
 Open and Closed Items

Sort by:  Applicant/Respondent  
 TCEQ ID Number  
 County

**Step Two:** Choose additional information below. Click "Search" button to run search. Click "Clear" to start over.

Applicant/Respondent Name: [ ]  
(May enter only first letter or first few letters of name.)

TCEQ ID Number: [12345]  
(Enter a full or partial Id number - permit, license, enforcement case etc)

TCEQ Docket Number: [ ]  
(example format: 2001-1918-AIR, add -E for enforcement case.)

SOAH Entity Number: [ ]  
(example format: 582-97-0842)

# COMMISSIONERS' INTEGRATED DATABASE PART 2

**County, TCEQ Region:**

CHAMBERS, REGION 12 - HOUSTON

**Doc. Type:** PERMIT

**Protestant Information**

Note: Allow up to five or more business days after the end of the comment period for comments or hearing requests to be included in this total.

**Comments Received: 1** **Hearing Requests Received: 0** **Public Meetings Received: 0**

17 Activity Actions found. [Display all Activity Actions](#)

**Activity Action List:**

Date	Document Type	Action
12/06/2010	COMMENT PERIOD	END
11/12/2010	NEWSPAPER TEARSHEET	RECEIVED
11/12/2010	PUBLIC NOTICE VERIFICATION FORM	COMPLETE
11/12/2010	AFFIDAVIT - NAPD	RECEIVED
11/12/2010	PUBLIC NOTICE VERIFICATION FORM	RECEIVED

1 - 1 |

return to [search form](#).

[Site Help](#) | [Disclaimer](#) | [Web Policies](#) | [Accessibility](#) | [Helping our Customers](#) | [TCEQ Homeland Security](#) | [Contact Us](#)



Stimulus  
Funding

Last Modified Thu, 24 Sep 2009

©2002-2010 Texas Commission on Environmental Quality



**TCEQ**

# COMMISSIONERS' INTEGRATED DATABASE PART 3

## TCEQ Commissioners' Integrated Database - All Activity Actions

[BACK TO:](#) Back to Report Result 1 - 1

### Activity Action List:

Date	Document Type	Action
02/28/2011	RFR/HR PERIOD	END
01/28/2011	<a href="#">FINAL DECISION LETTER</a>	MAILED
12/06/2010	COMMENT PERIOD	END
11/12/2010	PUBLIC NOTICE VERIFICATION FORM	COMPLETE
11/12/2010	PUBLIC NOTICE VERIFICATION FORM	RECEIVED
11/12/2010	NEWSPAPER TEARSHEET	RECEIVED
11/12/2010	AFFIDAVIT - NARD	RECEIVED
11/04/2010	NOTICE - PRELIM DECISION	PUBLISHED
10/27/2010	<a href="#">NOTICE - PRELIM DECISION</a>	MAILED
10/21/2010	FILE	RECEIVED
08/17/2010	NEWSPAPER TEARSHEET	RECEIVED
08/17/2010	AFFIDAVIT - NORI	RECEIVED
08/17/2010	VERIFICATION/APPLICATION	RECEIVED
08/17/2010	BILINGUAL VERIFICATION	RECEIVED
08/06/2010	NOTICE OF RECEIPT/INTENT	PUBLISHED
07/23/2010	<a href="#">NOTICE OF RECEIPT/INTENT</a>	MAILED
07/19/2010	NOTICE OF RECEIPT/INTENT	RECEIVED
07/13/2010	ADMIN REVIEW	COMPLETE
06/04/2010	APPLICATION	RECEIVED

