



**TCEQ Stakeholder Meeting –  
November 1 & 2, 2022**

**Reunión de Partes Interesadas de la TCEQ –  
1 y 2 de noviembre del 2022**

# TCEQ Speakers

## Oradores de la TCEQ

- Laurie Gharis
- Amy Browning
- Holly Landuyt
- Doug Boyer
- Anita Keese
- Jason Ybarra



# Public Participation in the TCEQ Permitting Process

Participación Pública en el Proceso de Permisos de la TCEQ

# Types of permits issued by TCEQ

## Tipos de permisos emitidos por la TCEQ

- Water Quality and Availability
- Waste
- Air Quality
- Calidad y Disponibilidad del Agua
- Desechos
- Calidad del Aire

# Water Quality and Availability

## Calidad y Disponibilidad del Agua

- Municipal
  - Industrial
  - Stormwater
  - CAFOs (Concentrated Animal Feeding Operations)
  - Sludge
  - Water Rights
- Municipal
  - Industrial
  - Aguas Pluviales
  - CAFO (Operación Concentrada de Alimentación de Animales)
  - Lodo
  - Derechos de Agua

# Waste

## Desechos

- Underground Injection Control program: individual permits, general permits, authorization by rule
- Radioactive Materials: licenses (much like a permit)
- Industrial and Hazardous waste: permits, registrations
- Municipal Solid Waste: permits, registrations, notifications
- Programa de control de inyección subterránea: permisos individuales, permisos generales, autorización por regla
- Materiales radiactivos: licencias (muy parecidas a un permiso)
- Desechos Industriales y Peligrosos: permisos, registros
- Desechos Sólidos Municipales: permisos, registros, notificaciones

# Air Quality

## Calidad del Aire

- Minor permits
  - Permits by Rule (PBRs)
  - Standard Permits
  - Minor New Source Review (NSR)
- Major permits
  - Prevention of Significant Deterioration (PSD)
  - Nonattainment
  - Hazardous Air Pollutants (HAPs)
- Permisos menores
  - Permisos por Regla (PBR)
  - Permisos Estándar
  - Revisión Menor de Nuevas Fuentes (NSR)
- Permisos mayores
  - Prevención del deterioro significativo (PSD)
  - (Área de) Incumplimiento
  - Contaminantes Atmosféricos Peligrosos (HAPs)

# Public Participation: Statutes & Rules

## Participación Pública: Estatutos y Reglas

- HB 801 (76th Legislature, 1999)
- SB 709 (84th Legislature, 2015)
- 30 Texas Administrative Code (TAC) Chapters 39, 55, and 80
- HB 801 (76<sup>a</sup> Legislatura, 1999)
- SB 709 (84<sup>a</sup> Legislatura, 2015)
- 30 Código Administrativo de Texas (TAC) Capítulos 39, 55 y 80



# Notice for Permit Applications

## Aviso para Solicitudes de Permisos

- What is a notice?
  - Who has to provide notice?
  - What types of notices are required?
  - When are notices sent out to the public?
  - What information is in a notice?
- ¿Qué es un aviso?
  - ¿Quién tiene que dar aviso?
  - ¿Qué tipos de avisos se requieren?
  - ¿Cuándo se envían los avisos al público?
  - ¿Qué información hay en un aviso?

# Notice of Receipt of Application and Intent to Obtain Permit (NORI)

## Aviso de Recepción de la Solicitud y la Intención de Obtener el Permiso (NORI)

- First public notice
- Provides opportunity for public to know that a permitting action is occurring
- For minor NSR air permits and Concrete Batch Plants – contested case hearing requests must be received during the comment period provided by NORI to preserve the right to request a hearing later
- Primer aviso público
- Brinda la oportunidad para que el público sepa que se está produciendo una acción de permisos
- Para permisos aéreos menores de NSR y plantas mezcladoras de concreto: las solicitudes de audiencia de casos impugnados deben recibirse durante el periodo de comentarios previstos por NORI para preservar el derecho a solicitar una audiencia en el futuro.

# Notice of Application and Preliminary Determination (NAPD)

## Aviso de Solicitud y Determinación Preliminar (NAPD)

- Second public notice
- Notice that the Executive Director has reached a preliminary decision on a permit application
- Opportunity to request a contested case hearing
- Segundo aviso público
- Aviso de que el Director Ejecutivo ha llegado a una decisión preliminar sobre una solicitud de permiso
- Oportunidad de solicitar una audiencia de caso impugnado

# Public Meetings

## Reuniones Públicas

- Ask questions of the Applicant and TCEQ about a permit application
- Submit public comments
- How to request a public meeting
- Format of meetings
  - Applicant, TCEQ – OCC and ED staff
  - Informal comments – Q/A
  - Formal comments – response in RTC
- Haga preguntas al solicitante y a la TCEQ sobre una solicitud de permiso.
- Enviar comentarios públicos.
- Cómo solicitar una reunión pública
- Formato de las reuniones
  - Solicitante, TCEQ – OCC y el personal del ED
  - Comentarios informales – Preguntas y respuestas
  - Comentarios formales – respuesta en RTC

# Public Comments

## Comentarios Públicos

- How to submit comments.
  - What information should your comments contain?
  - Why would you submit comments?
- Cómo someter comentarios.
  - ¿Qué información deben contener sus comentarios?
  - ¿Por qué enviaría comentarios?

# Contested Case Hearings

## Audiencias de Casos Impugnados

- Request for a contested case hearing:
    - Must have submitted timely comments and a timely hearing request;
    - Requests must be in writing; and
    - Request must explain why/how requester is affected - How are you impacted in a way that is different from the general public?
  - Agenda
  - Direct referral to SOAH
- Solicitud de audiencia de un caso impugnado:
    - Debe haber presentado comentarios oportunos y una solicitud de audiencia oportuna;
    - Las solicitudes deben ser por escrito; y
    - La solicitud debe explicar por qué / cómo se ve afectado el solicitante: ¿En qué manera te impacta diferente al público general?
  - Agenda
  - Remisión directa a SOAH

# State Office of Administrative Hearings (SOAH) Oficina Estatal de Audiencias Administrativas (SOAH)

- What is SOAH?
  - When and why do permit applications go to SOAH?
  - What happens at SOAH?
  - What happens after SOAH?
- ¿Qué es SOAH?
  - ¿Cuándo y por qué las solicitudes de permisos van a SOAH?
  - ¿Qué pasa en SOAH?
  - ¿Qué sucede después de SOAH?



# How to Access and Interpret Ambient Air Quality Data

*Cómo Acceder e Interpretar los  
Datos de Calidad del Aire Ambiental*



# Texas Air Monitoring Network

## *Red de Monitoreo del Aire de Texas*

- The Texas air monitoring network consists of roughly 230 monitoring stations with over 500 individual pollutant samplers.
- TCEQ displays data for its network and hosts data for partner organizations with independent air monitoring networks.
- *La red de monitoreo del aire de Texas consta de aproximadamente 230 estaciones de monitoreo con más de 500 muestreadores de contaminantes individuales.*
- *La TCEQ muestra datos para su red y aloja datos para organizaciones asociadas con redes de monitoreo de aire independientes.*



# Federal Monitoring Requirements

## Requisitos federales de monitoreo

The TCEQ monitors ambient air concentrations for six commonly occurring air pollutants, or “criteria pollutants”.

|                      |                    |
|----------------------|--------------------|
| • Ground level ozone | • Lead             |
| • Particulate matter | • Sulfur dioxide   |
| • Carbon monoxide    | • Nitrogen dioxide |

Monitoring networks are implemented based on federal regulations set by the U.S. EPA in 40 Code of Federal Regulations Parts 50 and 58.

The TCEQ also operates a robust network of state-initiative monitors that support a variety of purposes.

- Volatile organic compounds (VOCs)
- Hydrogen sulfide

*La TCEQ monitorea las concentraciones en el aire ambiental de seis contaminantes atmosféricos comunes, o "contaminantes de criterio".*

|                              |                        |
|------------------------------|------------------------|
| • Ozono a nivel del suelo    | • Conducir             |
| • <i>Materia Particulada</i> | • Dióxido de azufre    |
| • Monóxido de carbono        | • Dióxido de nitrógeno |

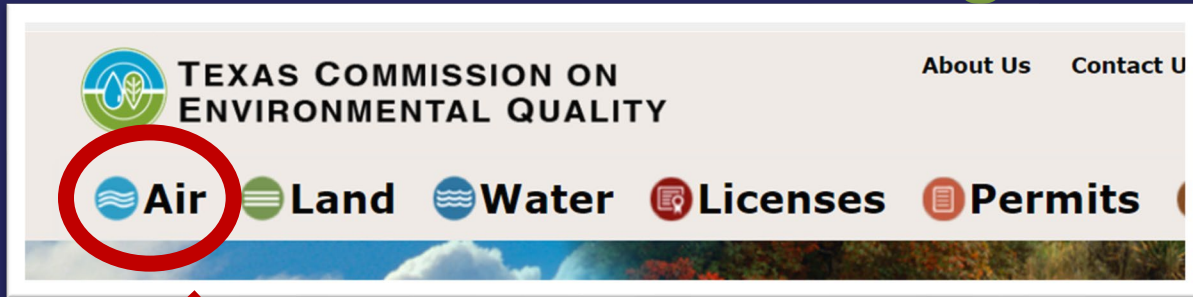
*Las redes de monitoreo se implementan en base a las regulaciones federales establecidas por la EPA de los Estados Unidos en 40 Código de Regulaciones Federales Partes 50 y 58.*

*La TCEQ también opera una sólida red de monitores de iniciativa estatal que apoyan una variedad de propósitos.*

- *Compuestos orgánicos volátiles (COV)*
- *Sulfuro de hidrógeno*

# TCEQ Homepage [www.tceq.texas.gov](http://www.tceq.texas.gov)

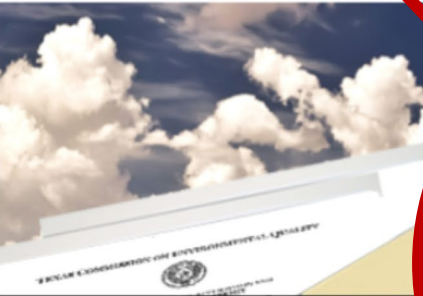
## TCEQ Página Principal



Home / Agency / Air

## Air

Permitting air emissions, monitoring air quality, and managing air resources.



**Air Permitting** →

- Permits, Registrations, Requirements
- Public Notice and Modeling Procedures
- Training and Events



**Air Quality and Monitoring** →

- Studies, Modeling, Meteorological Data
- Air Pollutant Watch List and Toxicology
- Today's Air Quality



**Air Emissions** →

- Point Source Inventory and Events Reporting
- Banking and Trading
- Reduction and Control Programs

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Home Air Land Water Licenses Permits Reporting

**Air Quality and Monitoring**

Featuring the latest information regarding the Texas air monitoring network, monitoring data, and air quality forecast conditions for Texas' metropolitan areas.

**Ambient Air Monitoring**

Texas has one of the most robust air monitoring networks in the country consisting of over 200 monitoring stations serving over 25 million Texans statewide in areas where the presence of industry intersects with large segments of the state's population. This network assists the TCEQ in monitoring compliance with federal air quality standards, providing information in response to localized air quality concerns, evaluating air pollution trends, and studying air pollution formation and behavior. The TCEQ monitoring network includes more than double the number of monitors required by federal rule, in addition to numerous state-initiative monitors.

The **Federal Clean Air Act** provides for establishing national **ambient air** quality standards (NAAQS) for **six commonly occurring air pollutants**, or "criteria pollutants", that can be harmful to public health and the environment.

The TCEQ monitors ambient air concentrations of these and other pollutants at stationary monitoring sites across the state. Near real-time monitoring data can be found using the links in the right and left menus.

The TCEQ also maintains the Texas Air Monitoring Information System (TAMIS) that allows users to generate and download ambient air quality data collected at these monitoring stations.

**Today's Texas Air Quality Forecast**

**Air Quality Index:** Table of Today's Pollution Levels in Texas' Metro Areas

**Latest Texas Ozone Levels**

**Latest Texas PM<sub>2.5</sub> Levels:** Soot, Dust, and Smoke in Your Metro Area

**Latest Volatile Organic Compound (VOC) monitoring stations, data, locations, and photos of monitoring sites.**

Interactive Monitoring Map (GeoTAM)

[Air Quality and Monitoring - Texas Commission on Environmental Quality - <https://www.tceq.texas.gov/airquality/monops/air-mon>](https://www.tceq.texas.gov/airquality/monops/air-mon)

*Calidad del aire y monitoreo*

# Today's Texas Air Quality Forecast

## Pronóstico de Calidad del Aire de Texas de Hoy



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Home Air Land Water Licenses Permits Reporting

Air Monitoring Home  
Air Monitoring Sites  
AQI and Data Reports  
Volatile Organic Compound Data  
TCEQ Air Monitoring Network Plans  
TCEQ Exceptional Event Flag Demonstrations

Home / Air Quality / Air Monitoring / Today's Texas Air Quality Forecast

Questions or Comments: [monops@tceq.texas.gov](mailto:monops@tceq.texas.gov)

### Today's Texas Air Quality Forecast

The latest forecast for air quality conditions in Texas' metropolitan areas.

October 12, 2022

Forecast is for Ozone, PM2.5, & PM10, and is based on EPA's Air Quality Index (AQI)

**Air Quality Index**

|      |          |                                |           |                    |           |
|------|----------|--------------------------------|-----------|--------------------|-----------|
| Good | Moderate | Unhealthy for sensitive groups | Unhealthy | Variably Unhealthy | Hazardous |
|------|----------|--------------------------------|-----------|--------------------|-----------|

How are we doing? Take our customer satisfaction survey

| Forecast Region (Click name for AIRNOW version) | Wed 10/12/2022 | Thu 10/13/2022 | Fri 10/14/2022 | Sat 10/15/2022 |
|---|----------------|----------------|----------------|----------------|
| Amarillo  | Good           | Good           | Good           | Good           |
| Austin  | Good           | Ozone          | Ozone          | Ozone          |
| Beaumont-Port Arthur                            | Good           | Good           | Good           | Good           |
| Big Bend  | Good           | Good           | Good           | Good           |
| Brownsville-McAllen                             | Good           | Good           | Good           | Good           |
| Bryan-College Station                           | Good           | Good           | Ozone          | Ozone          |
| Corpus Christi                                  | Good           | Good           | Good           | Good           |
| Dallas-Fort Worth                               | Good           | Ozone          | Ozone/PM2.5    | Good           |
| El Paso   | Ozone/PM2.5    | Ozone/PM2.5    | Ozone/PM2.5    | Ozone/PM2.5    |
| Houston   | Ozone/PM2.5    | Ozone          | Ozone          | Ozone/PM2.5    |
| Laredo  | Good           | Good           | Good           | Good           |
| Lubbock   | Good           | Good           | Good           | Good           |
| Midland-Odessa                                  | Good           | Good           | Ozone          | Ozone          |
| San Antonio                                     | Good           | Ozone          | Ozone          | Ozone          |
| Tyler-Longview                                  | Good           | Good           | Ozone          | Good           |
| Victoria  | Good           | Good           | Good           | Good           |
| Waco-Killeen                                    | Good           | Good           | Ozone          | Good           |

An asterisk (\*) indicates that an Ozone Action Day is or will be in effect for the indicated region.

A caret (^) indicates that levels of PM may exceed the applicable short-term NAAQS. For more information see the following websites: [Air Pollution from Particulate Matter](#) and [Voluntary Tips for Citizens and Business to Reduce Emissions](#).

NOTE: Some data may have been evaluated by the TCEQ Toxicologists. [Click here to see Toxicological Evaluations.](#)

## Welcome to the Texas Air Monitoring Information System (TAMIS) Web Interface



TAMISWeb allows users to generate and download predefined reports containing air quality data and associated information stored in the TAMIS database. This data is collected and maintained by the Data Collection Team of the Monitoring Division within the Office of Compliance and Enforcement.

TAMIS contains ambient air quality data values for many parameters, including:

- Criteria Pollutants
- Hazardous Air Pollutants (HAPs)
- Volatile Organic Compounds (VOC's)
- Meteorological Data

TAMIS also contains ambient air monitoring metadata, such as:

- Geographic Information
- Measurement Parameters
- Sampling and Analysis Methods
- Monitoring Method
- Monitoring Networks
- Site Photographs

Throughout this website, a lightning bolt icon  indicates that this control alters the webpage in explain what changes will occur. A book icon  indicates that a more detailed list exists. Select

**Start Report**

You can immediately start a report query without logging in, but you will not be able to save notifications sent to your email address.

**Login**

If you would like your reports to be saved using your email address, please login.

## [TAMISWeb - About \(texas.gov\)](http://www.texas.gov)

# Texas Air Monitoring Information System (TAMIS)

## Sistema de Información de Monitoreo del Aire de Texas

NOTE: Some data may have been evaluated by the TCEQ Toxicologists. [Click here to see Toxicological Evaluations.](#)

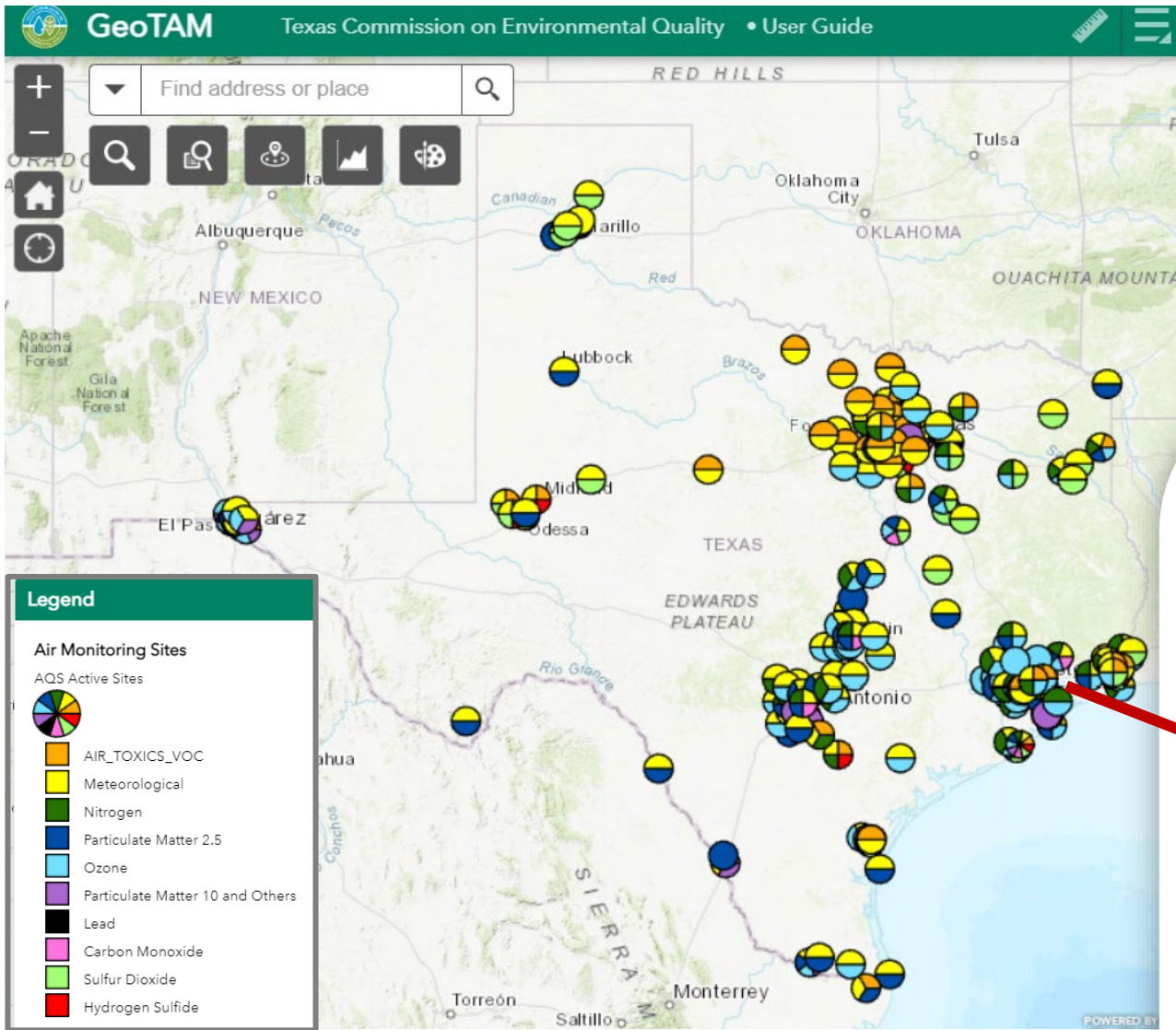
NOTE: Information shown on this page is subject to change without notice

[Site List Options](#) 

**Site List**

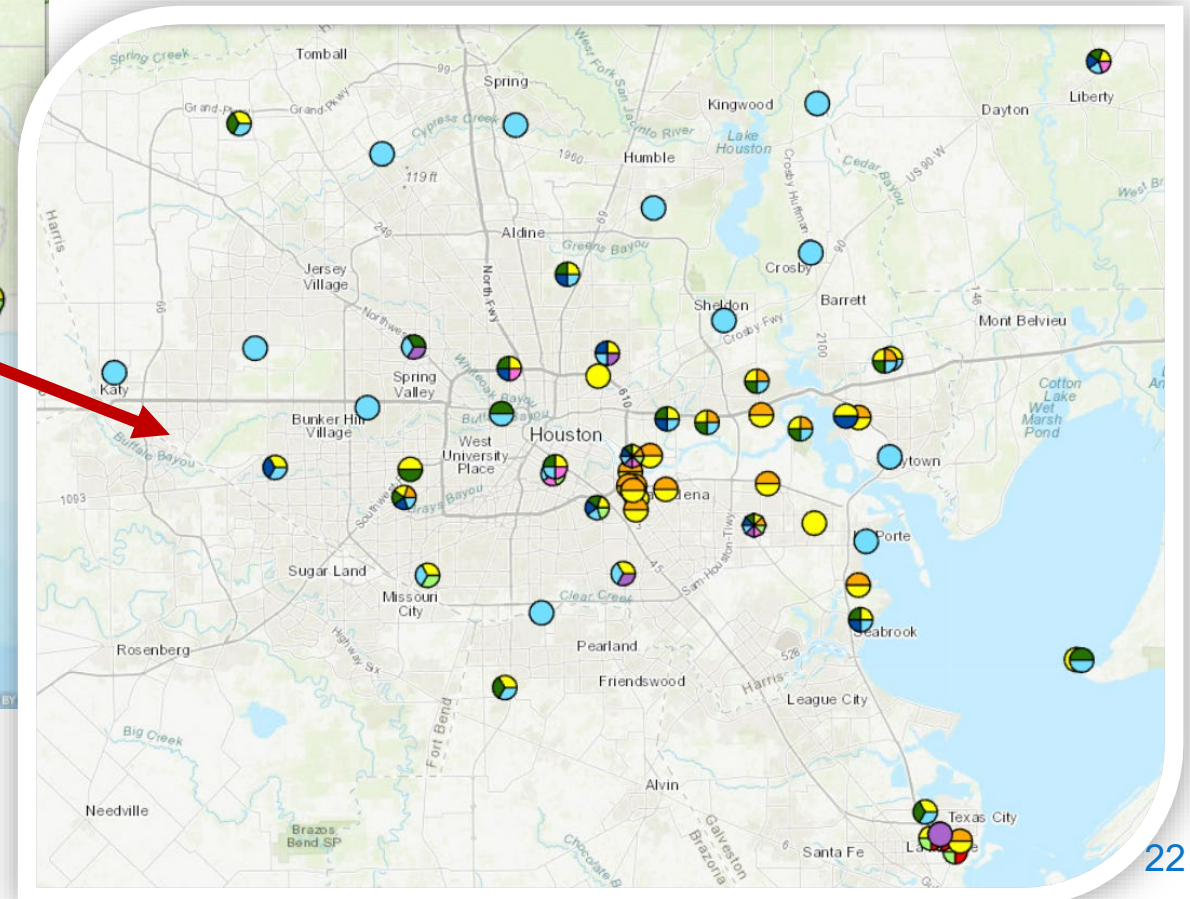
| AQS Code                  | CAMS             | TCEQ Region | Reg# | Site Name                     | Street Address           | Activation Date | Owned By                                 |
|---------------------------|------------------|-------------|------|-------------------------------|--------------------------|-----------------|--|
| <a href="#">482010024</a> | 0008, 0108, 0150 | HOUSTON     | 12   | Houston Aldine                | 4510 1/2 Aldine Mail Rd  | 01-Jan-1974     | TCEQ                                     |
| <a href="#">482010026</a> | 0015, 0115       | HOUSTON     | 12   | Channelview                   | 1405 Sheldon Road        | 01-Jan-1980     | TCEQ                                     |
| <a href="#">482010029</a> | 0026, 0110, 0154 | HOUSTON     | 12   | Northwest Harris County       | 16822 Kitzman            | 01-Jan-1981     | TCEQ                                     |
| <a href="#">482010036</a> | 1036             | HOUSTON     | 12   | Channelview Drive Water Tower | 15913 Channelview Drive  | 19-Jul-2006     | TCEQ                                     |
| <a href="#">482010046</a> | 0405, 1033       | HOUSTON     | 12   | Houston North Wayside         | 7330 1/2 North Wayside   | 01-Jan-1976     | TCEQ                                     |
| <a href="#">482010047</a> | 0408             | HOUSTON     | 12   | Lang                          | 4401 1/2 Lang Rd         | 01-Jan-1978     | TCEQ                                     |
| <a href="#">482010051</a> | 0409             | HOUSTON     | 12   | Houston Croquet               | 13826 1/2 Croquet        | 01-Jan-1978     | TCEQ                                     |
| <a href="#">482010055</a> | 0053, 0146, 0181 | HOUSTON     | 12   | Houston Bayland Park          | 6400 Bissonnet Street    | 24-Mar-1998     | TCEQ                                     |
| <a href="#">482010057</a> | 0167, 1667       | HOUSTON     | 12   | Galena Park                   | 1713 2nd Street          | 21-Oct-1997     | TCEQ                                     |
| <a href="#">482010058</a> | 0148             | HOUSTON     | 12   | Baytown                       | 7210 1/2 Bayway Drive    | 25-Mar-1998     | TCEQ                                     |
| <a href="#">482010060</a> | 0404             | HOUSTON     | 12   | Houston Kirkpatrick           | 5565 Kirkpatrick         | 10-Feb-2000     | TCEQ                                     |
| <a href="#">482010061</a> | 0145             | HOUSTON     | 12   | Shore Acres                   | 3903 1/2 Old Highway 146 | 28-May-1998     | TCEQ                                     |
| <a href="#">482010062</a> | 0406             | HOUSTON     | 12   | Houston Monroe                | 9726 1/2 Monroe          | 01-Jan-1984     | TCEQ                                     |
| <a href="#">482010066</a> | 0410, 3003       | HOUSTON     | 12   | Houston Westhollow            | 3333 1/2 Hwy 6 South     | 01-Jul-1994     | TCEQ                                     |
| <a href="#">482010069</a> | 0169             | HOUSTON     | 12   | Milby Park                    | 2201A Central St         | 07-Apr-1999     | TCEQ                                     |
| <a href="#">482010307</a> | 1029             | HOUSTON     | 12   | Manchester East Avenue N      | 9415 East Avenue N       | 09-May-2005     | TCEQ                                     |
| <a href="#">482010416</a> | 0416             | HOUSTON     | 12   | Park Place                    | 7421 Park Place Blvd     | 22-Feb-2006     | TCEQ                                     |
| <a href="#">482010417</a> | 0417             | HOUSTON     | 12   | Houston Harvard Street        | 160 Harvard Street       | 25-Jan-2021     | TCEQ                                     |
| <a href="#">482010551</a> | 0551             | HOUSTON     | 12   | Sheldon                       | 15345 Beaumont Hwy       | 17-Apr-2002     | Harris County Pollution Control Services |
| <a href="#">482010552</a> | 0552             | HOUSTON     | 12   | Baytown Wetlands Center       | 1724 Market Street       | 11-Jun-2003     | Harris County Pollution Control Services |
| <a href="#">482010553</a> | 0553             | HOUSTON     | 12   | Crosby Library                | 135 Hare Road            | 16-Jun-2003     | Harris County Pollution Control Services |
| <a href="#">482010554</a> | 0554             | HOUSTON     | 12   | West Houston                  | 16718 Old Road           | 24-Dec-2003     | Harris County Pollution Control Services |

<https://www17.tceq.texas.gov/tamis/index.cfm?fuseaction=home.welcome>



**GeoTAM** - interactive graphical display of Texas air monitoring stations

*GeoTAM* - pantalla gráfica interactiva de las estaciones de monitoreo del aire de Texas



# Clinton Site

# Sitio de Clinton

TAMISWeb v5.2.3 - Site Details - Monitoring Information (texas.gov)

**Clinton: (482011035)**  
[Site Information](#)

This site monitors near real-time for:  
[Ozone](#)  
[Sulfur Dioxide](#)  
[Particulate Matter](#)  
[VOCs by AutoGC](#)

This site may monitor for other pollutants, click [here](#) for the list.



### Clinton

Basic Information | **Monitoring Information** | Photos | Validated Data

Show Active Monitoring Only

Samplers [\[Expand All\]](#)

| Sampler Type                | Sampler Operator                  | Params | Status | Disclaimer | Data Options                |
|-----------------------------|-----------------------------------|--------|--------|------------|-----------------------------|
| Automated Gas Chromatograph | TCEQ                              | 48     | Active |            | current day   current month |
| Barometric Pressure         | City of Houston Health Department | 1      | Active |            | current day   current month |
| CO (High Sensitivity)       | City of Houston Health Department | 1      | Active |            | current day   current month |
| Carbonyl                    | TCEQ                              | 17     | Active |            | validated data              |
| Dew Point                   | City of Houston Health Department | 1      | Active |            | current day   current month |
| NOX                         | City of Houston Health Department | 3      | Active |            | current day   current month |
| O3                          | City of Houston Health Department | 1      | Active |            | current day   current month |
| PM10 (FRM)                  | City of Houston Health Department | 1      | Active |            | validated data              |
| PM10 (FRM)                  | City of Houston Health Department | 1      | Active |            | validated data              |
| PM2.5 (FRM)                 | City of Houston Health Department | 7      | Active |            | validated data              |
| PM2.5 (FRM)                 | City of Houston Health Department | 7      | Active |            | validated data              |
| PM2.5 (TEOM)                | City of Houston Health Department | 1      | Active |            | current day   current month |
| Precipitation               | City of Houston Health Department | 1      | Active |            | current day   current month |

Select Site: Clinton (482011035)

Basic Information | **Monitoring Information** | Photos | Validated Data

- EPA Site Number: 482011035
- CAMS: 0055, 0113, 0304, 0403
- Activation Date: January 01, 1972
- Current Status: Active
- State: TEXAS
- County: HARRIS
- City: Houston
- Address: 9525 1/2 Clinton Dr
- ZIP: 77029
- Site Coordinates:
  - Latitude: 29° 44' 1" North (29.7337291°)
  - Longitude: -95° 15' 27" West (-95.2576030°)
  - Elevation: m
- Owned By: TCEQ
- [GeoTAM Site Map](#)
- [GeoTAM Region Map](#)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Air Quality Maps | Data Reports | AutoGC | Water Data | Site Info

### Clinton C403/C304/AH113 Data by Site by Date (all parameters)

| Parameter Measured       | Morning |      |      |      |      |      |      |      |      |      |       | Parameter Measured |                          |
|--------------------------|---------|------|------|------|------|------|------|------|------|------|-------|--------------------|--------------------------|
|                          | Mid     | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 | 9:00 | 10:00 |                    | 11:00                    |
| Carbon Monoxide          | 0.4     | 0.6  | 0.7  | 0.5  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | 0.4  | NA    | NA                 | Carbon Monoxide          |
| Sulfur Dioxide           | -0.6    | -0.6 | -0.4 | -0.5 | -0.4 | -0.4 | -0.5 | -0.4 | -0.4 | 0.2  | NA    | NA                 | Sulfur Dioxide           |
| Nitric Oxide             | 1.2     | 9.6  | 9.2  | 1.0  | -0.8 | 0.1  | 1.2  | 5.2  | 6.6  | 5.3  | NA    | NA                 | Nitric Oxide             |
| Nitrogen Dioxide         | 27.1    | 32.5 | 30.8 | 23.0 | 16.4 | 16.4 | 15.9 | 18.1 | 21.0 | 26.8 | NA    | NA                 | Nitrogen Dioxide         |
| Oxides of Nitrogen       | 28.3    | 42.0 | 40.0 | 23.9 | 15.6 | 16.4 | 17.0 | 23.3 | 27.6 | 32.0 | NA    | NA                 | Oxides of Nitrogen       |
| Ozone                    | 9       | 7    | 8    | 12   | 16   | 14   | 13   | 16   | 23   | 34   | NA    | NA                 | Ozone                    |
| Wind Speed               | 2.4     | 2.7  | 2.6  | 2.7  | 3.9  | 3.1  | 1.9  | 2.8  | 3.6  | 3.5  | NA    | NA                 | Wind Speed               |
| Resultant Wind Speed     | 2.3     | 2.6  | 2.5  | 2.7  | 3.7  | 3.0  | 1.7  | 2.5  | 3.2  | 2.8  | NA    | NA                 | Resultant Wind Speed     |
| Resultant Wind Direction | 24      | 23   | 20   | 36   | 40   | 39   | 13   | 23   | 51   | 70   | NA    | NA                 | Resultant Wind Direction |
| Maximum Wind Gust        | 4.1     | 4.0  | 4.3  | 5.6  | 7.2  | 6.1  | 3.4  | 5.2  | 7.5  | 7.9  | NA    | NA                 | Maximum Wind Gust        |
| Std. Dev. Wind Direction | 8       | 11   | 17   | 12   | 16   | 18   | 24   | 24   | 26   | 35   | NA    | NA                 | Std. Dev. Wind Direction |



# How air quality data is used at TCEQ:

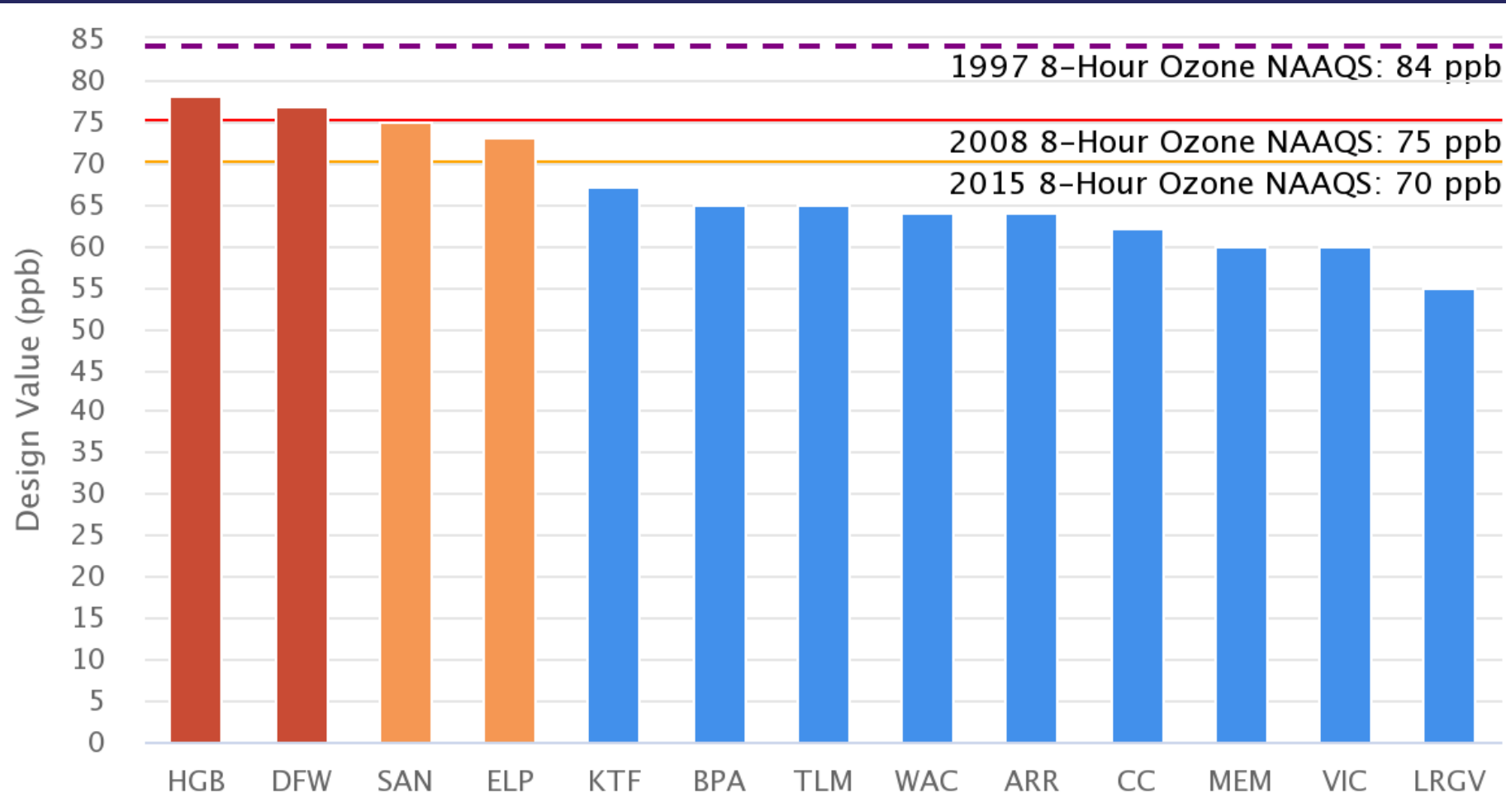
## *Cómo se utilizan los datos de calidad del aire en la TCEQ:*

- Determine compliance with the federal health-based standards
  - Analyze trends
  - Evaluate days/events with elevated concentrations
  - Support TCEQ programs/requirements
- *Determinar el cumplimiento de los estándares federales basados en la salud*
  - *Analizar tendencias*
  - *Evaluar días/eventos con concentraciones elevadas*
  - *Apoyar los programas/requisitos de la TCEQ*



# Preliminary\* 2022 Eight-Hour Ozone Design Values

## Valores preliminares\* de diseño de ozono de ocho horas\* 2022

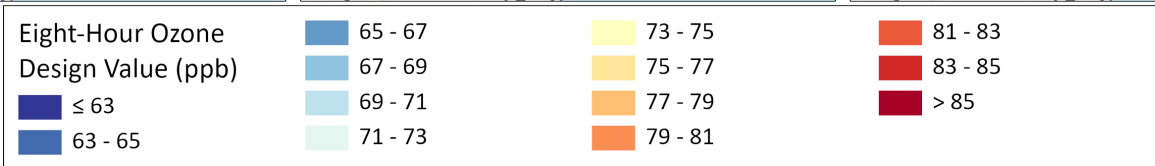
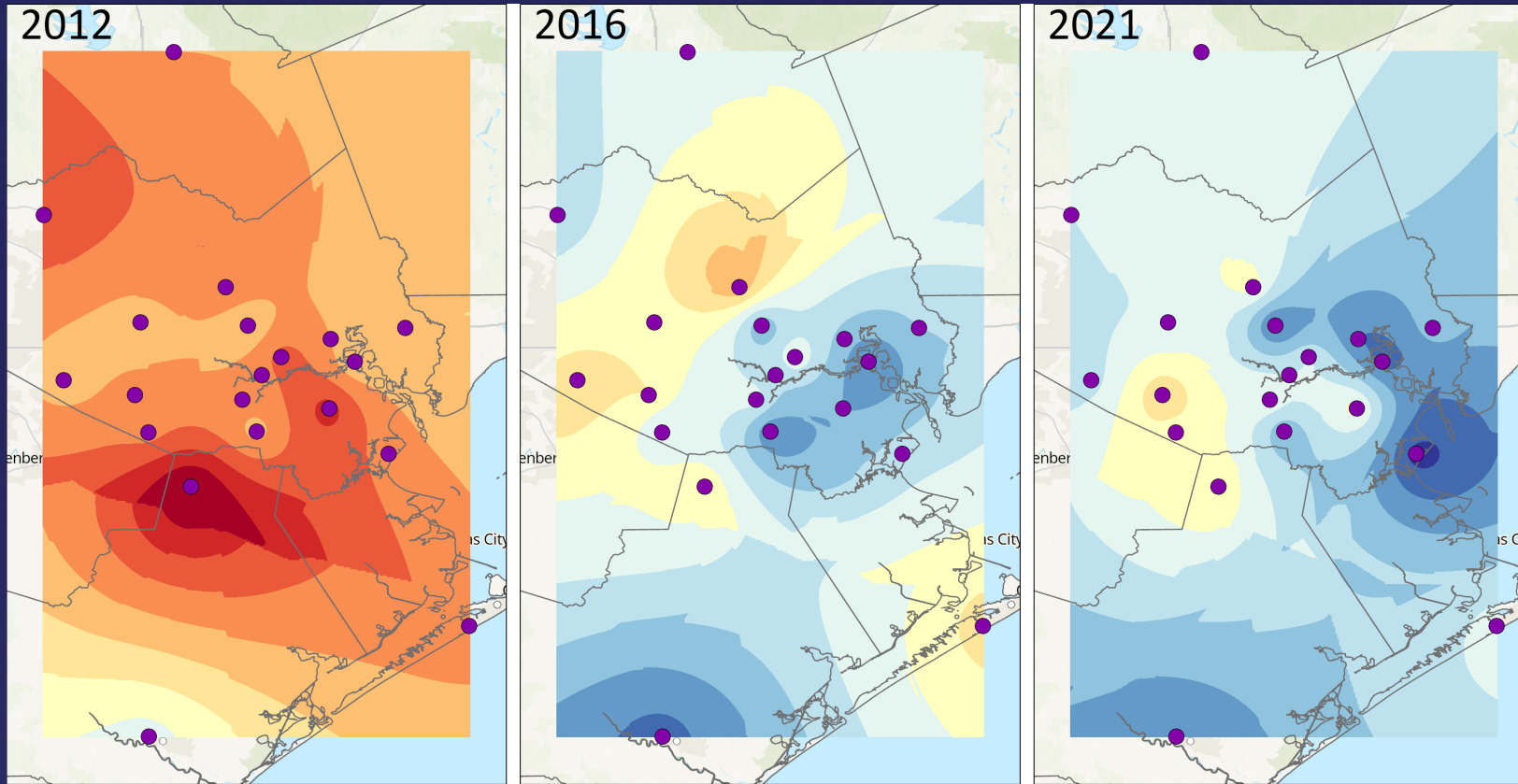


- HGB = Houston-Galveston-Brazoria
- DFW = Dallas-Fort Worth
- SAN = San Antonio
- ELP = El Paso
- KTF = Killeen-Temple-Fort Hood
- BPA = Beaumont-Port Arthur
- TLM = Tyler-Longview-Marshall
- WAC = Waco
- ARR = Austin-Round Rock
- CC = Corpus Christi
- MEM = Mission-Edinburg-Mercedes
- VIC = Victoria
- LRGV = Lower Rio Grande Valley

\*Regulatory monitor data as of 10/15/2022 and subject to change.  
 Datos de monitores regulatorios a partir del 15/10/2022 y sujetos a cambios.

# Trend Analysis: 2012-2021 Houston Area Eight-Hour Ozone

## *Análisis de Tendencias: 2012-2021 Área de Houston Ocho Horas de Ozono*



City of Houston, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS, Esri, USGS

- Significant ozone decreases over the last 10 years
- *Disminución significativa en el ozono en los últimos 10 años*
- 1 million new residents since 2012
- *1 millón de nuevos residentes desde 2012*
- Air Quality Success:
- *Éxito en la calidad del aire:* <https://www.tceq.texas.gov/airsuccess>

# How to Receive Air Quality Updates:

## *Cómo Recibir Actualizaciones de Calidad del Aire:*

<https://www.tceq.texas.gov/goto/govdelivery>

- Daily Texas Air Quality Forecasts
- Ozone Action Alerts
- Air Monitoring Network Announcements
- SIP Hot Topics
- TCEQ Photochemical Modeling Data
- Air Quality Technical Information Meetings
- Point Source Emissions Inventory

# Contacts

# Contactos

- Air Monitoring *Monitoreo del aire*
  - Holly Landuyt
  - [monops@tceq.texas.gov](mailto:monops@tceq.texas.gov)
  - 512-239-1762
  - <https://www.tceq.texas.gov/airquality/monops/air-mon>
- Air Quality *Calidad del Aire*
  - Doug Boyer
  - [amda@tceq.texas.gov](mailto:amda@tceq.texas.gov)
  - 512-239-1459
  - <https://www.tceq.texas.gov/airquality/airmod/am>



# TCEQ's Environmental Complaints

## Quejas Ambientales de la TCEQ

# Environmental Complaints Las Quejas Ambientales

- Environmental complaints may be submitted 24/7 online, by email or telephone
  - [complaint@tceq.texas.gov](mailto:complaint@tceq.texas.gov)
  - 1-888-777-3186
  - Local regional office  
<https://www.tceq.texas.gov/agency/directory/region>
- Las quejas ambientales se pueden someter todo el tiempo en línea, correo electrónico o por teléfono
  - [quejas@tceq.texas.gov](mailto:quejas@tceq.texas.gov)
  - 1-888-777-3186
  - Oficina local regional  
<https://www.tceq.texas.gov/agency/directory/region>

# What problems can TCEQ help with?

## ¿Con qué problemas puede ayudar la TCEQ?

- See water that may be polluted.
- See or smell something unpleasant in outside air.
- See land that may be contaminated.
- Have problems with your drinking water.
- Have information or evidence about an environmental problem.
- Have problems with an individual or company licensed or registered by TCEQ.
- Need more information about a possible pollution source, including permitting status.
- Ver agua que pueda estar contaminada.
- Ver u oler algo desagradable en el aire exterior.
- Ver terrenos que pueden estar contaminados.
- Con problemas con su agua potable.
- Con información o evidencia sobre un problema ambiental.
- Con problemas de una persona o empresa autorizada o registrada por TCEQ.
- Necesita más información sobre una posible fuente de contaminación, incluidos el status de los permisos.

## Gathering and Preserving Information and Evidence Showing a Violation Recopilación y conservación de Información y Pruebas que Demuestren una Violación

- Information you provide can be used as evidence of a violation in an enforcement action
  - We may ask you to do one or more of the following:
    - Sign an affidavit.
    - Testify in court.
    - Certify that you have followed TCEQ procedures for gathering and handling of physical evidence.
    - Demonstrate that information was legally obtained.
  - If your information is used as evidence of a violation, your identity may be disclosed.
- La información que proporcione puede usarse como evidencia de una acción de aplicación de la ley.
  - Podemos pedirle que realice una o más de las siguientes acciones:
    - Firmar una declaración jurada (afidávit).
    - Testificar en la corte.
    - Certificar que ha seguido los procedimientos de la TCEQ para la recopilación y manejo de evidencia física.
    - Demostrar que la información fue obtenida legalmente.
  - Si su información se utiliza como evidencia de una violación, su identidad puede ser revelada.



# Examples of Evidence Ejemplos de Evidencia

## Odor Log / Registro de Olores

**Texas Commission on Environmental Quality  
Odor Log**

| Date | Time(s) (a.m. or p.m.) | How long did the odor last (hours and minutes)? | Was the odor constant or intermittent? | Weather Conditions |            |                  | Effects/Comments/Concerns  |
|------|------------------------|---|--|--------------------|------------|------------------|--|
|      |                        |   |  | Wind direction     | Rain (Y/N) | Temperature (°F) |  |
|      |                        |   |  |                    |            |                  | Please provide additional information as necessary:<br>What does the odor smell like? Describe the strength of the odor.<br>Where do you think the odor is coming from?<br>How is the odor impacting you? Where were you when you detected the odor?<br>If multiple people in a household are completing this form, please indicate the individuals name next to each entry. |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |
|      |                        |   |  |                    |            |                  |  |

| Person(s) Completing Log |  | Alleged Source of the Odor |
|--------------------------|--|----------------------------|
| Name(s):                 |  |                            |
| Contact Number(s):       |  |                            |
| Address:                 |  |                            |

Revised January 20, 2015

## Photographs / Fotografías



# More Examples of Evidence

# Más Ejemplos de Evidencia

Copies of Records / Copias de Registros

Affidavit / Declaración Jurada



STATE OF TEXAS §  
COUNTY OF §

"My name is [redacted]. I am of sound mind and over the age of 18, capable of making this affidavit, and the facts stated in this affidavit are within my personal knowledge and are true and correct. The TCEQ Executive Director requested that I execute this affidavit in accordance with the procedure set forth in 30 Tex. Admin. Code § 70.4. The rule concerns the TCEQ Executive Director's use of information provided by a private individual in an enforcement action.

My mailing address is: [redacted]

I certify that I will testify in any enforcement proceeding the TCEQ Executive Director may initiate using the information I have provided in this affidavit, including enforcement proceedings pursued by the TCEQ Executive Director upon referral of the matter to the Texas Attorney General. I further understand that by signing this affidavit my name and address may be released to the general public in response to a public information act request or to the respondent as the result of a discovery request in an administrative or state court proceeding.

I certify that the information in this affidavit was not gathered illegally.

Attached hereto are [redacted] pages of records. The records attached are the original or exact duplicates of the original. I have personal knowledge about the occurrence of the event or condition of the site. I have verified the accuracy of the records that are provided. Any photographs or videos provided accurately reflect what I observed at the location where they were taken.

I believe these records demonstrate a violation of statutes or rules within TCEQ's jurisdiction. The information shows:

[redacted]

[redacted]

[redacted]

[redacted]

— Affiant's Signature  
Sworn to and subscribed before me on the [redacted] day of [redacted], 20 [redacted].

1

# How long will it take you to respond to my complaint? ¿Cuánto tiempo les llevará responder a mi queja?

- If the situation is an immediate threat to public health or the environment, we will respond within 24 hours after we receive your complaint—usually much sooner.
- Other complaints usually take longer, but we take every complaint seriously, and we will investigate your concerns if it is within our jurisdiction.



- Si la situación es una amenaza inmediata para la salud pública o el medio ambiente, responderemos dentro de las 24 horas después de recibir su queja, generalmente mucho antes.
- Otras quejas generalmente toman más tiempo, pero tomamos cada queja en serio, e investigaremos sus inquietudes si está dentro de nuestra jurisdicción.

# How will I know what you decided? ¿Cómo me enteraré de lo que deciden?

- Unless you have chosen to remain anonymous, we will notify you about the results.
- We will provide you periodic reports on any enforcement action we take.
- You will have an opportunity to review and comment on any TCEQ order proposed to resolve the case.
- You can also track the status of complaints online.
- A menos que haya elegido permanecer en el anonimato, le notificaremos sobre los resultados.
- Le proporcionaremos informes periódicos sobre cualquier acción de ejecución de la ley que tomemos.
- Tendrá la oportunidad de revisar y comentar sobre cualquier orden propuesta por la TCEQ para resolver el caso.
- También puede realizar un seguimiento del estado de las quejas en línea.

# Search page - Status of a Complaint

## Página de búsqueda - Estado de una Queja

### Search for the Status of a Complaint

Fill in the information in the form below to search for the complaint(s) of interest to you. You may search by complaint tracking number or by a combination of criteria.

#### Search by Complaint Tracking Number

Complaint Tracking Number:

#### Search by Other Criteria

Please provide at least one search criteria to identify the complaint(s) of interest to you.

**Date search limitations:** A Date Range search may not return data for complaints received prior to November 25, 2002. Please use another search parameter to retrieve those complaints. Also, because of short delays in entering data, a complaint may not be entered until a few days after it is actually received. If you have trouble finding a complaint, try searching a wider date range.

Received Date Range:  To  (MM/DD/YYYY)

CN:  (CN+9-digits)

Customer Name:

RN:  (RN+9-digits)

Regulated Entity Name:

County:   
--ALL--  
ANDERSON  
ANDREWS  
ANGELINA  
ARANSAS

Region:

Program:

Use Full Wildcard for name fields

# Modernization of Complaint Receipt! ¡Modernización de Recepción de Quejas!

- Published TCEQ's Complaint Investigation Procedures
- New website to submit complaints
- Automated reply to your complaint email which includes important information
- Can accept photographs, videos or other attachments
- Ability to file complaint in your preferred language
- All incoming complaints will be documented immediately and automatically
- Se publicó un documento de pólizas y procedimientos de la TCEQ sobre quejas
- Se tiene una nueva página web para presentar quejas
- Respuesta automática a su correo electrónico de su queja que incluye información importante
- Se pueden aceptar fotografías, videos u otros archivos adjuntos
- Tiene la opción de presentar una queja en su idioma preferido
- Todas las quejas recibidas se documentarán de forma inmediata y automática.

# Where to find more information? ¿Dónde encontrar más información?

## Do You Want to Make an Environmental Complaint?

**Do You Have Information About a Possible Violation?**  
If you think you have seen or experienced an environmental problem, you may wonder what to do, whom to call, and what to expect.

Answers to some of the questions you may have about reporting a problem and how to get detailed instructions on submitting information.

The infographic features a central circular image of a tree with the Texas Commission on Environmental Quality logo. Surrounding this central image are ten icons: a question mark, a hand holding a leaf, a scale of justice, an envelope, a telephone, an eye, a water tap, a recycling symbol, a leaf, and a hand holding a leaf. A text box at the top explains that it provides answers to common questions about reporting environmental problems and submitting information.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

01-278 (Rev. 11/21) (Also see this publication in Spanish, 01-278sp) Prepared by Office of Compliance and Enforcement

## ¿Desea Presentar una Queja Ambiental?

**¿Tiene Información Sobre una Posible Infracción?**  
Si cree que ha visto o experimentado un problema ambiental, podría preguntarse qué hacer, a quién llamar y qué esperar.

Respuestas a algunas de las preguntas que pueda tener sobre cómo reportar un problema y cómo obtener instrucciones detalladas de cómo presentar información.

The infographic features a central circular image of a tree with the Texas Commission on Environmental Quality logo. Surrounding this central image are ten icons: a question mark, a hand holding a leaf, a scale of justice, an envelope, a telephone, an eye, a water tap, a recycling symbol, a leaf, and a hand holding a leaf. A text box at the top explains that it provides answers to common questions about reporting environmental problems and submitting information.

COMISIÓN DE CALIDAD AMBIENTAL DE TEXAS

01-278esp (Rev. 11/21) (Vea también esta publicación en inglés, 01-278) Preparado por Oficina de Cumplimiento y Aplicación



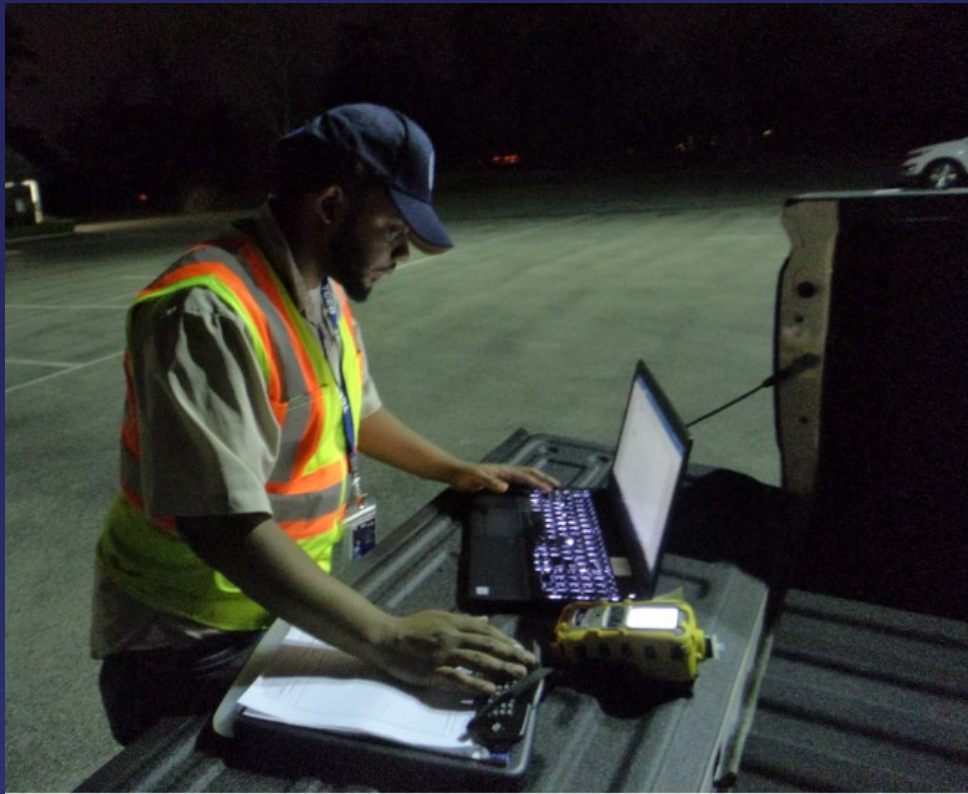
# Region Activities

## Actividades de la Región



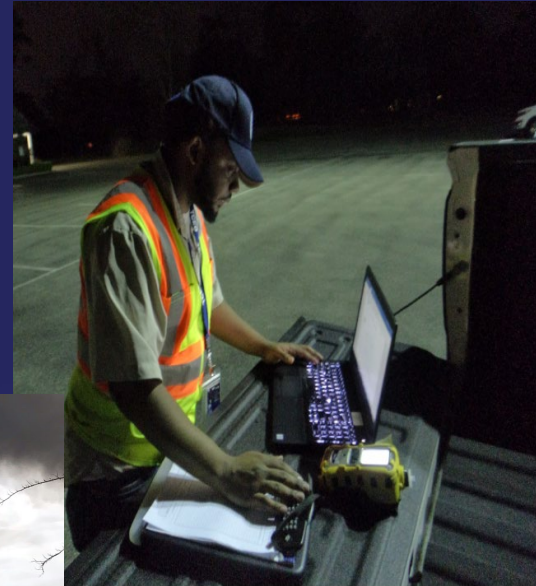
# Emergency Response

## Respuesta de Emergencia



# Region Activities – Emergency Response

## Actividades de la Región – Respuesta de Emergencia



# Types of Emergency Response

## Tipos de respuesta de Emergencia

- **Routine spills and discharges of hazardous substances to the air, land, or water**
- **Vehicular accidents involving spills of hazardous substances**
- **Fires and explosions at regulated entities**
- **Large-scale industrial accidents at refineries and petrochemical plants**
- **Natural disasters**
- **Derrames y descargas rutinarias de sustancias peligrosas al aire, la tierra o el agua**
- **Accidentes vehiculares que involucran derrames de sustancias peligrosas**
- **Incendios y explosiones en entidades reguladas**
- **Accidentes industriales a gran escala en refinerías y plantas petroquímicas**
- **Desastres naturales**

**Oversight may be shared with other authorities**

**La supervisión puede ser compartida con otras autoridades**

# Notification & Response

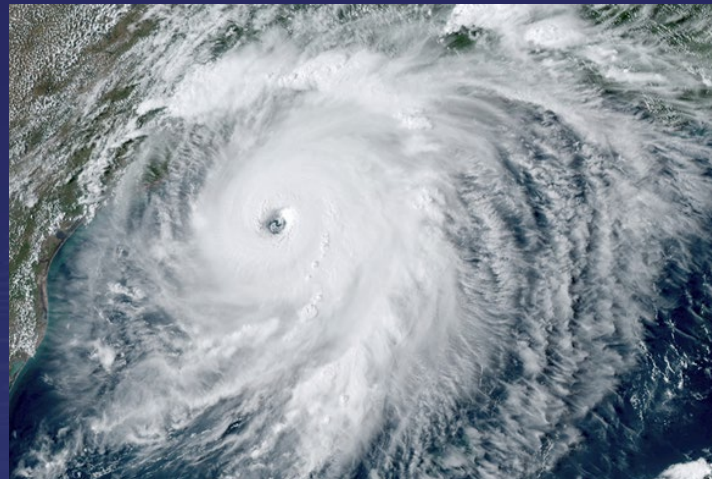
## Notificación y Respuesta

- Notifications are required by regulated entities through the National Response Center network or directly to TCEQ regional offices within 24 hours
  - Regional staff are deployed when the situation is deemed safe and when first responders have taken the initial steps for public safety
  - Assessment of the situation is made, monitoring or sampling conducted when necessary, and direction given to the responsible party for remediation and reporting
- Las notificaciones son requeridas por las entidades reguladas a través de la red del Centro Nacional de Respuesta o directamente a las oficinas regionales de la TCEQ dentro de las 24 horas
  - El personal regional se despliega cuando la situación se considera segura y cuando los socorristas han tomado las medidas iniciales para la seguridad pública.
  - Se realiza una evaluación de la situación, se realiza un seguimiento o muestreo cuando es necesario, y se dan instrucciones a la parte responsable para la remediación y la presentación de informes.

# Deployments

## Despliegues

- **Natural disasters (hurricanes, winter storms)**  
Desastres naturales (huracanes, tormentas de invierno)
- **Air quality assessments**  
Evaluaciones de la calidad del aire
- **Environmental emergencies**  
Emergencias ambientales
- **Investigation support**  
Apoyo a la investigación



# Regional Rapid Assessment Survey Vehicles

## Vehículos Regionales de Encuestas de Evaluación Rápida

- Simplified mobile platform to conduct in-transit surveys of target pollutants typically associated with large industry using a single instrument
- The vehicles will be operated by region investigators
- Plataforma móvil simplificada para realizar estudios en tránsito de contaminantes objetivo típicamente asociados con la gran industria utilizando un solo instrumento
- Los vehículos serán operados por investigadores de la región

# Regional Rapid Assessment Survey Vehicles

## Vehículos Regionales de Encuestas de Evaluación Rápida

- Existing regional vehicles retrofitted with DUVAS UV spectrometers
  - Same instruments used in the SMART-RA van.
  - Provides instantaneous measurements of 14 compounds every second.
- Currently deployed in the Houston and Beaumont regions
  - Planned deployment to Corpus Christi region in 2022.
- Vehículos regionales existentes modernizados con espectrómetros UV DUVAS
  - Los mismos instrumentos utilizados en la furgoneta SMART-RA.
  - Proporciona mediciones instantáneas de 14 compuestos por segundo.
- Actualmente desplegado en las regiones de Houston y Beaumont
  - Despliegue planificado en la región de Corpus Christi en el 2022.





2020-08-31 15:15:20

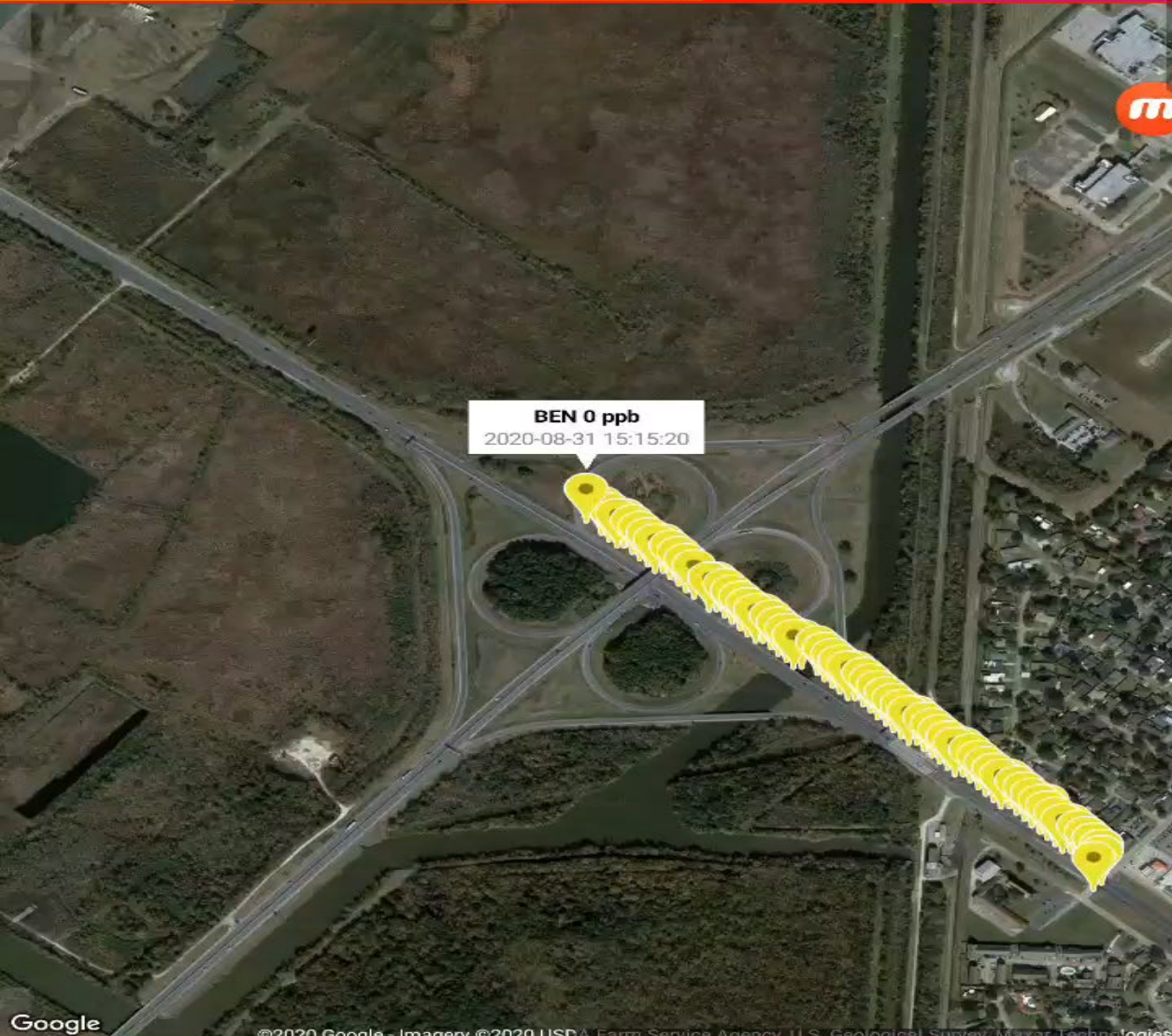
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Custom Alarms

BEN

Stop



BEN 0 ppb  
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2020-08-29 21:57:56

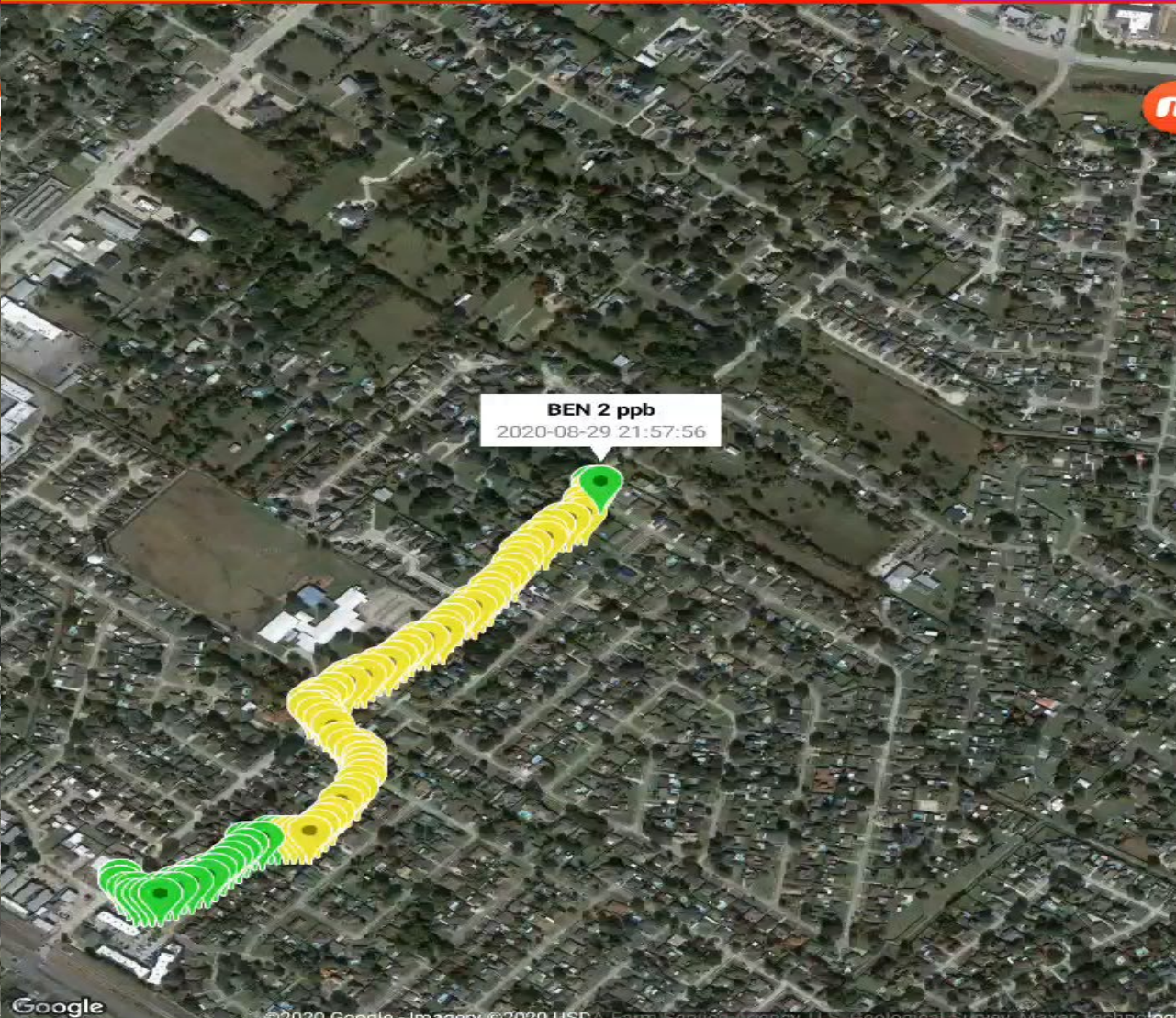
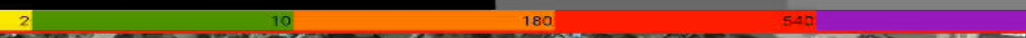
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Custom Alarms

BEN

Stop



BEN 2 ppb  
2020-08-29 21:57:56



# Disaster Response Strike Teams

## Equipos de Ataque de Respuesta a Desastres

- The DRSTs were created to complement regional emergency response efforts
- There are 16 DRSTs, one for each region, that are staffed by over 100 investigators
- Los DRST fueron creados para complementar los esfuerzos regionales de respuesta a emergencias
- Hay 16 DRST, uno para cada región, que cuentan con más de 100 investigadores

# Disaster Response Strike Teams

## Equipos de Ataque de Respuesta a Desastres

- Provide qualified multi-media investigators from across the state to support regions impacted by large-scale natural disasters & emergency response events
- Members train for, respond to and assist in recovery from natural & man-made disasters
- Allow for rotation of TCEQ responders to provide for adequate relief time
- Proporcionar investigadores multimedia calificados de todo el estado para apoyar a las regiones afectadas por desastres naturales a gran escala y eventos de respuesta de emergencia
- Los miembros se capacitan, responden y ayudan en la recuperación de desastres naturales y provocados por el hombre
- Permitir la rotación de los respondedores de la TCEQ para proporcionar un tiempo de alivio adecuado

# Region Monitoring – Air Reconnaissance

## Monitoreo de la Región – Reconocimiento Aéreo

- Regional offices set up pre-established routes in areas of concern
  - Identify potential sources impacting air quality in the area for further evaluation
  - Use handheld air monitoring equipment
- Las oficinas regionales establecen rutas preestablecidas en las zonas de interés
  - Identificar las fuentes potenciales que afectan la calidad del aire en el área para una evaluación adicional
  - Utilice equipos portátiles de monitoreo de aire

# Region Monitoring – Air Reconnaissance

## Monitoreo de la Región – Reconocimiento Aéreo



# Handheld Monitoring and Sample Collection

## Monitoreo Portátil y Recolección de Muestras

During both scheduled and on-demand investigations, it may be necessary for investigators to conduct monitoring and sampling to verify compliance with permits and regulations.

Durante las investigaciones programadas y a pedido, puede ser necesario que los investigadores realicen un monitoreo y muestreo para verificar el cumplimiento de los permisos y regulaciones.

# Handheld Monitoring and Sample Collection

## Monitoreo Portátil y Recolección de Muestras

### Examples include:

- Collect laboratory samples for permit parameters, e.g. Biochemical Oxygen Demand (5-day), Total Suspended solids, *E. coli*, ammonium nitrogen, volatile organic compounds
- Monitoring for Dissolved Oxygen and pH – YSI multiprobe
- Measuring chlorine residuals – Hach Colorimeters

### Algunos ejemplos son:

- Recolectar muestras de laboratorio para los parámetros del permiso, por ejemplo, demanda bioquímica de oxígeno (5 días), sólidos suspendidos totales, *E. coli*, nitrógeno amónico, compuestos orgánicos volátiles
- Monitoreo de oxígeno disuelto y pH – YSI multisonda
- Medición de residuos de cloro – Hach Colorimeters

# Handheld Monitoring and Sample Collection

## Monitoreo Portátil y Recolección de Muestras





# Handheld Monitoring

## Monitoreo Portátil

- **Methane Monitoring – GEM 5000**
- **Fugitive Emissions**
  - **Optical Gas Imaging Camera**
  - **Toxic Vapor Analyzer**
  - **RAE Systems**
- **Monitoreo de Metano – GEM 5000**
- **Emisiones Fugitivas**
  - **Cámara Óptica de Imágenes de gas**
  - **Analizador de Vapor Tóxico**
  - **Sistemas RAE**



# Handheld Monitoring

## Monitoreo Portátil



# Optical Gas Imaging Cameras

## Cámaras Ópticas de Imágenes de Gas

- **Optical Gas Imaging Cameras (OGICs) provide the Agency a unique and powerful tool to locate sources of hydrocarbon emissions**
- **TCEQ maintains a robust OGIC-operator certification and recertification training program founded on the principles of thermography that a manufacturer-based training would offer, but also focuses on agency-specific needs**
- **TCEQ currently has 99 certified OGIC operators**
- Las cámaras ópticas de imágenes de gas (OGIC) proporcionan a la Agencia una herramienta única y poderosa para localizar fuentes de emisiones de hidrocarburos
- La TCEQ mantiene un sólido programa de capacitación en certificación y recertificación de operadores de OGIC, basado en los principios de termografía que ofrecería una capacitación basada en el fabricante, pero también se enfoca en las necesidades específicas de la agencia.
- La TCEQ cuenta actualmente con 99 operadores OGIC certificados

# Optical Gas Imaging Cameras

## Cámaras Ópticas de Imágenes de Gas



# Examples of ER Information

## Ejemplos de Información de ER

- [Hurricane Laura Response](#)
  - Regulatory guidance in multiple languages
- [City of Lake Jackson, Texas, Incident](#)
  - Interactive sampling map
  - Sampling results
- [ITC Terminal Fire Update](#)
  - Water Quality Monitoring Data
  - Air Quality Monitoring Data
- [Respuesta al Huracán Laura](#)
  - Guía normativa en varios idiomas
- [Ciudad de Lake Jackson, Texas, Incidente](#)
  - Mapa de muestreo interactivo
  - Resultados del muestreo
- [Actualización del Incendio de la Terminal ITC](#)
  - Datos de monitoreo de la calidad del agua
  - Datos de monitoreo de la calidad del aire

# For More Information or Questions Para Más Información o Preguntas

Email/correo electrónico: [TitleVI@tceq.texas.gov](mailto:TitleVI@tceq.texas.gov)