

Urban Drilling Educational Forum

August 1, 2015

City of Arlington

Texas Railroad Commission

Texas Commission on Environmental Quality



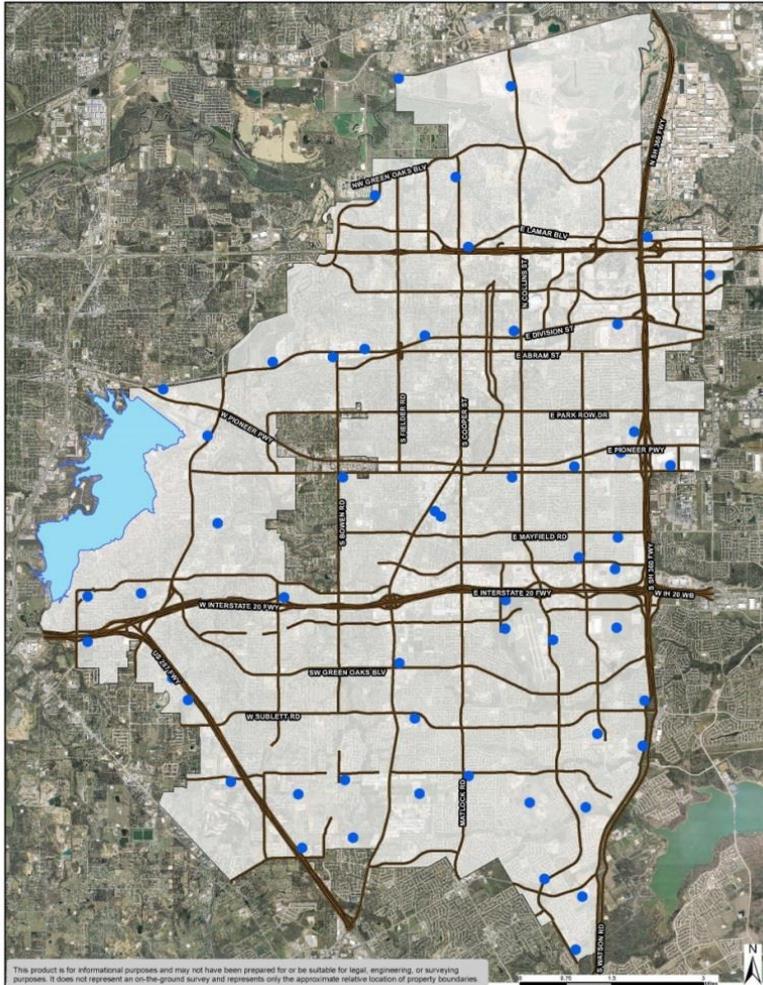
Urban Drilling Educational Forum

August 1, 2015

Collin Gregory
Chief Don Crowson



Gas Drilling in Arlington



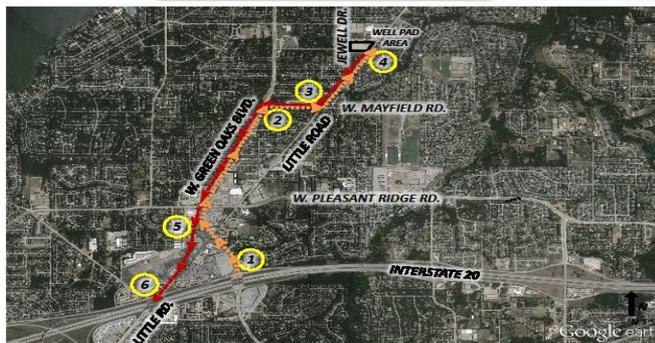
- 56 drill sites
- 338(+) well heads
- 7 Operators

Procedures



Zoning

- Specific Use Permit (SUP)
 - Drill Zone Establishment
 - Setback distance
 - Landscaping and screening



Legend:

- Well Pad Area
- Entrance Route
- Exit Route

Exhibit C:
Transportation Route to LABC Drill Site

From the intersection of Interstate 20 and W. Green Oaks Blvd:
 1) Continue north on W. Green Oaks Blvd. (1.12 miles)
 2) Turn right on W. Mayfield Rd. (.25 miles)
 3) Turn Left on Little Road (.4 miles)
 4) Left onto Access Drive - Arrive at Drill Site

After leaving drill site:
 5) Continue south and stay right onto Little Rd. (.5 miles)
 6) continue on to interstate 20

Noise

BZ-5503 Measurement Partner Suite

ARCHIVES

- Brüel and Kjaer Archives
 - 2250
 - white
 - Project 036
 - Project 036 (1)
 - Project 037
 - Project 037 (1)
 - Project 038
 - Project 038 (1)
 - Project 039
 - Project 039 (1)
 - Project 040
 - Project 040 (1)
 - Project 041
 - Project 041 (1)
 - Project 042
 - Project 043
 - Project 044

DEVICES

Project 044 ARCHIVES\Brüel and Kjaer Archives\2250\Project 044

Project 044

Cursor values

Report
 X: 11:00:00 AM - 11:41:42 AM
 LAeq: 56.0 dB

Logged
 X: 11:41:40 AM - 11:41:41 AM
 LAFmax: 59.3 dB
 LAFmin: 58.0 dB
 LCpeak: 83.4 dB
 LAeq: 58.6 dB

Measurement	Start Time	Stop Time	Elapsed Time	LAeq [dB]	LCpeak [dB]	LAFmax [dB]	LAFmin [dB]	Overload [%]
Total	7/1/2014 9:16:19 AM	7/1/2014 11:41:42 AM	02:25:23	57.3	98.7	88.8	52.8	0.0
Logged	7/1/2014 11:41:40 AM	7/1/2014 11:41:41 AM	00:00:01	58.6	83.4	59.3	58.0	
Report	7/1/2014 11:00:00 AM	7/1/2014 11:41:42 AM	00:41:42	56.0	90.8	73.6	52.8	0.0

No marker features available. Requires license BZ-5503-A

Logged (7/1/2014 11:41:40 AM - 11:41:41)

Cursor values

X: 800 Hz
 LZeq: 43.9 dB

- > NOTES +
- > IMAGES +
- > COMMENTARIES +
- > SIGNAL RECORDINGS +
- > ATTACHMENTS +

TASKS

Completed

Measured

Calculations

Add annotations using the buttons above or drag-drop

Brüel & Kjær

9:52 AM
8/7/2014

Transportation Route



Legend:

-  Well Pad Area
-  Entrance Route
-  Exit Route

Exhibit C:

Transportation Route to LABC Drill Site

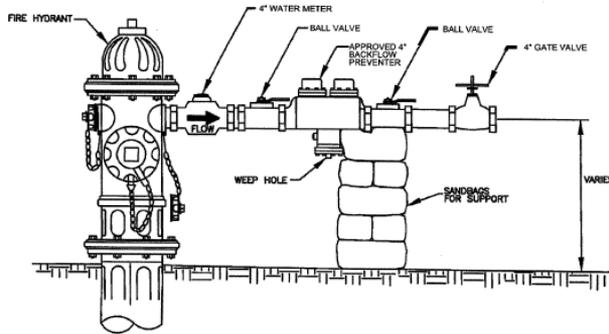
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- 3) Turn Left on Little Road (.4 miles)
- 4) Left onto Access Drive – Arrive at Drill Site

After leaving drill site:

- 5) Continue south and stay right onto Little Rd. (.5 miles)
- 6) Continue on to Interstate 20

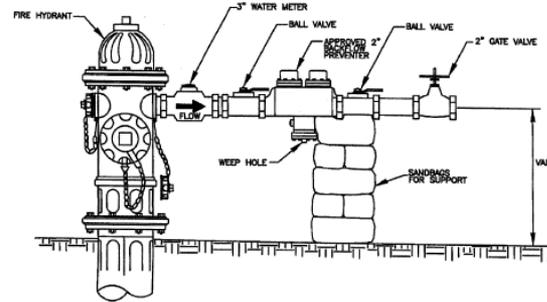
Water Usage



NOTES:

1. USE OF HYDRANT REQUIRES VALID WATER FIRE HYDRANT METER AGREEMENT. CONTACT WATER UTILITIES CUSTOMER SERVICE OFFICE FOR APPLICATION.
2. PRIOR TO METER ASSEMBLY INSTALLATION, TESTING OF THE RPZ SHALL BE PERFORMED BY A CITY OF ARLINGTON APPROVED TESTING FACILITY. A CURRENT AND PASSING TEST AND MAINTENANCE REPORT (TMR) FOR THE RPZ MUST BE SUBMITTED TO ARLINGTON WATER RESOURCE SERVICES PERSONNEL AT 200 NORTH COOPER STREET (817) 459-5902. THE TEST AND MAINTENANCE REPORT FOR THE RPZ DEVICE SHALL BE VALID FOR 6 MONTHS FROM THE DATE OF TEST. TMR SHALL BE AVAILABLE AT INSTALLATION LOCATION FOR REVIEW BY CITY PERSONNEL.
3. PRIOR TO METER ASSEMBLY INSTALLATION, THE 4-INCH HYDRANT METER SHALL BE CALIBRATED AND APPROPRIATE DOCUMENTATION SUBMITTED TO ARLINGTON METER SERVICES PERSONNEL AT 200 NORTH COOPER STREET. METER CALIBRATION SHALL BE VALID FOR 6 MONTHS FROM THE DATE OF TEST AND CALIBRATION DOCUMENTATION SHALL BE AVAILABLE AT INSTALLATION LOCATION FOR REVIEW BY CITY PERSONNEL.
4. PRIOR TO METER ASSEMBLY INSTALLATION, THE CALIBRATED 4-INCH HYDRANT METER SHALL BE BROUGHT INTO ARLINGTON METER SERVICES AT 200 NORTH COOPER STREET TO BE READ PRIOR TO WITHDRAWAL AT SITE. CONTACT SAM GONZALEZ AT (817)676-4252 OR ARLINGTON METER SERVICES AT (817)459-5901 TO SCHEDULE AN APPOINTMENT.
5. HYDRANT METER ASSEMBLY SHALL NOT DISRUPT PEDESTRIAN OR VEHICULAR FLOW. IF A 90 DEGREE BEND IS NOT USED, THE HYDRANT MAY NEED TO BE ROTATED 90 DEGREES TO ACCOMMODATE INSTALLATION. PLEASE CONTACT ARLINGTON WATER UTILITIES MODELING ENGINEER AT (817)459-6824 AT LEAST 72 HOURS PRIOR TO UTILIZATION OF APPROVED 4-INCH HYDRANT METER INSTALLATION SO HYDRANT CAN BE ROTATED, IF DEEMED NECESSARY BY ARLINGTON WATER UTILITIES. HYDRANT WILL BE ROTATED BY ARLINGTON WATER UTILITIES STAFF AND SHALL ONLY BE ROTATED FOR A MAXIMUM DURATION OF 5 DAYS. CONTRACTOR SHALL BE RESPONSIBLE FOR REIMBURSING ARLINGTON WATER UTILITIES FOR TIME AND MATERIALS.
6. METER AND REDUCED BACKFLOW PRESSION ZONE (RPZ) DEVICE SHALL BE FULLY SUPPORTED WHEN CONNECTED TO FIRE HYDRANT.
7. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FIRE HYDRANT DURING USE.
8. SANDBAGS SHALL NOT OBSTRUCT WEEP HOLE.

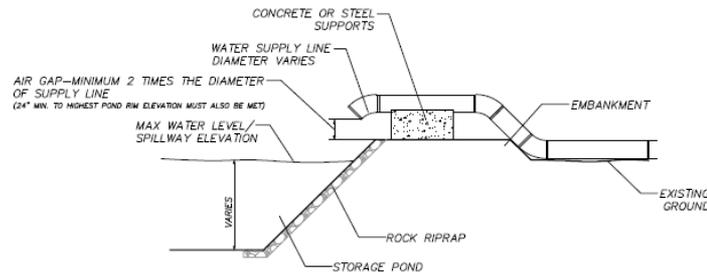
TEMPORARY 4" WATER METER INSTALLATION



NOTES:

1. USE OF HYDRANT REQUIRES VALID WATER FIRE HYDRANT METER AGREEMENT. CONTACT WATER UTILITIES CUSTOMER SERVICE OFFICE FOR APPLICATION.
2. METER AND REDUCED BACKFLOW PRESSION ZONE (RPZ) BACKFLOW DEVICE SHALL BE FULLY SUPPORTED WHEN CONNECTED TO FIRE HYDRANT.
3. METER AND RPZ BACKFLOW PRESSION ZONE (RPZ) SHALL BE APPROVED BY ARLINGTON WATER UTILITIES. (MS-30) METER MUST BE OBTAINED FROM CITY OF ARLINGTON WATER UTILITIES. METER SHALL BE TESTED ANNUALLY BY CITY OF ARLINGTON WATER UTILITIES.
4. PRIOR TO ANY USE OF FIRE HYDRANT WATER, THE RPZ MUST BE TESTED BY A CITY-REGISTERED BACKFLOW PRESSION ZONE ASSEMBLY TESTER (CPAT), AND A CURRENT AND PASSING TEST MAINTENANCE REPORT (TMR) FOR THE RPZ MUST BE FAXED TO WATER RESOURCE SERVICES AT (817) 459-5874. BACKFLOW DEVICE SHALL BE TESTED ANNUALLY AND COPY OF TEST SHALL BE SENT TO CITY OF ARLINGTON WATER UTILITIES WATER RESOURCE SERVICES BEFORE USAGE WILL BE ALLOWED.
5. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FIRE HYDRANT DURING USE.
6. SANDBAGS SHALL NOT OBSTRUCT WEEP HOLE.

STANDARD FIRE HYDRANT METER INSTALLATION



SCHEMATIC AIR GAP DETAIL
N.T.S.

**VANTAGE - LABC DRILL SITE
 GAS WELL PERMIT - EXHIBIT B**
 2012 & 3012 LITTLE ROAD
 ARLINGTON, TEXAS

PROJECT TITLE
**VANTAGE - LABC DRILL SITE
 GAS WELL PERMIT - EXHIBIT B**

mma
 Mechanical & Electrical
 200 East 4th Street
 Arlington, Texas 76010
 817-460-0871
 Fax: 817-274-6797
 www.mma-texas.com



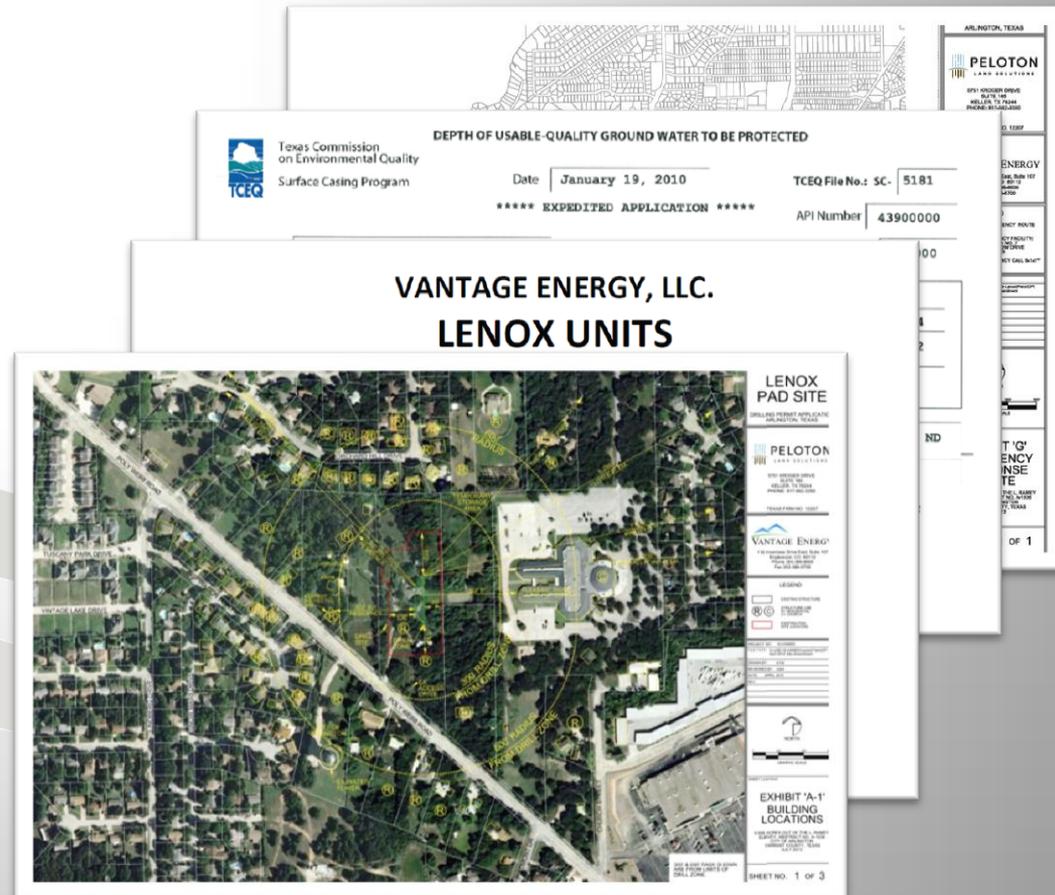
PROJECT NUMBER: 2408-03-03
 PROJECT NUMBER: 03-01-01
 DRAWN BY: S. KILIAN
 CHECKED BY: ALBERTO
 DATE: 02/28/2014

REV. DATE. GEOP. BY
 SHEET NUMBER:
**GAS WELL PERMIT
 EXHIBIT B**

Safety

Gas Well Permit Review

- Site Plans
- Storm Water Pollution Prevention Plan (SWPPP)
- TCEQ
- RRC
- Fire Protection
- Hazardous Material Management (HMM)
- Emergency Action Response (EAP)



Procedures - Inspections

Drilling Phases

- Site Construction
- Drilling
- Fracturing
- Flowback
- Reworking
- Production

Quarterly Reports

- Safety
- Operations
- Aesthetics

Inspections

- Random
- Complaint
 - During Business and Non-Business Hours



Gas Well Inspection Form



SITE NAME: _____

ADDRESS: _____

PHASE: Drilling Fracking Flowback Production Abandoned

Gas well inspections are conducted jointly by Community Development and Planning and the Fire Department. The section of the Fire Code and/or Gas Well Ordinance is noted on each item.

Signage (FC 346.3.1/Section 7.02)
 F.A.S. Address properly displayed
 Well Name
 Well Number
 Name of Operator
 (2) Emergency Phone Numbers
 No smoking signage per 2700.12 (Section 7.03)
 Hazmat Identification per 346.3.4.1

Security (FC 346.3.1/Section 7.04)
 Fencing intact
 Gate Locked
 Gate width
 Knox Lock
 Vehicle Impact Protection (FC 346.3.1.2)

Accessibility (FC 346.3.1.1/Section 7.02)
 Entry/Approach maintained
 24' width
 14' High Clearance
 Unobstructed access

Landscaping & Perimeter Fencing (Section 7.01)
 Tier 1
 Tier 2

Meteorological Data
 Wind Direct
 Temp

Wind Speed
 Average
 Current
 Max

Page 1
Updated: 04/30/12

Gas Well Inspection Form



SITE NAME: _____

Gas well inspections are conducted jointly by Community Development and Planning and the Fire Department. The section of the Fire Code and/or Gas Well Ordinance is noted on each item.

Valves
 Automatic shut-off valve/TOP per 346.3.4
 Emergency shut off valve per 346.3.4.2

Well Head Status After Fracking (Section 7.04)
 Covered
 Completed
 Cellar filled or Closed
 Hydrohead Gauge Installed
 Vehicle Impact Protection per 346.3.1.2

Administrative
 Emergency Action Plan per 346.3.16
 Hazardous Material per 346.3.10

Permitted on site (if applicable)
 Fire Credits
 Fire extinguisher (applicable if permitted on site)

Explosives (if on site)
 Permits from Fire Marshal (Required)

Summary Sample

Container # _____
 GPS coordinates _____
 Time _____
 Start _____
 Finish _____

TCEQ Investigator Contacted _____

Referred to Rail Road Commission _____

Site Representative _____

Time _____	Date _____	Gas Well Specialist (CD&P)
Time _____	Date _____	Fire Prevention Specialist (Fire Department)

Page 2
Updated: 04/30/12



Contact Information

Collin Gregory

Gas Well Coordinator

Collin.Gregory@ArlingtonTX.gov

www.arlington-tx.gov/cdp-gaswells



Arlington Fire Department Regulatory Oversight

Pre-Drilling

Review site plan for Fire Code compliance.

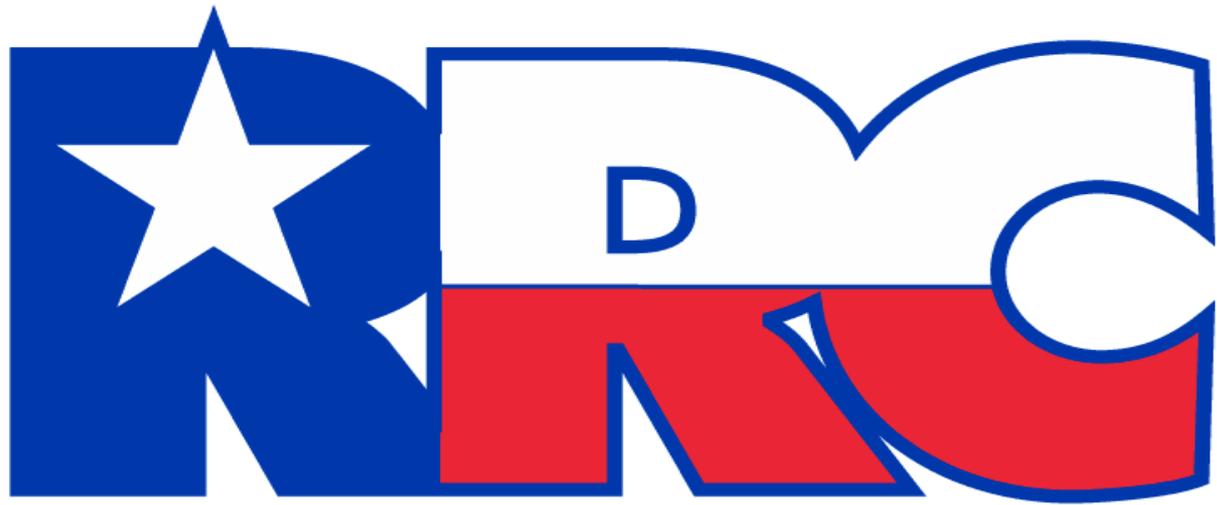
Inspections

- Quarterly and complaint inspections – Fire Code (e.g., well site security)
- Explosives permitting and monitoring

Post-Drilling

Emergency Response (911)

- Fire/Explosions
- EMS
- Release of product and/or chemical spills
- Natural Disasters



RAILROAD COMMISSION OF TEXAS

Oil and Gas Regulatory Overview

*Gaye Greever McElwain
Communications and Outreach
August 2015*



Our mission is to serve Texas by our stewardship of natural resources and the environment, our concern for personal and community safety, and our support of enhanced development and economic vitality for the benefit of Texans.

RRC History



Established 1891

- Texas' oldest regulatory agency
 - almost 100 years regulating oil & gas
- Led by 3 statewide elected officials



Commissioner Christi Craddick



Chairman David Porter



Commissioner Ryan Sitton

RRC Jurisdiction



Regulates:

- Oil and natural gas industry
- Intrastate pipelines, natural gas and hazardous liquid pipeline industry
- Liquefied Petroleum Gas (LPG), Compressed Natural Gas (CNG), and Liquid Natural Gas (LNG)
- Natural gas utilities
- Coal and uranium surface mining operations

RRC Partnerships



Working with other agencies

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- Department of Public Safety
- Texas Dept. of Transportation
- Texas Dept. of State Health Services

Federal Regulation



Oil and gas regulation:

- Clean Air Act
 - protects and improves the nation's air quality
- Clean Water Act
 - regulates the discharge of pollutants from point sources to waters of the United States
- Safe Drinking Water Act
 - federal law that ensures the quality of American's drinking water
- Oil Pollution Act of 1990
 - improved prevention and response to oil spills

RRC Expertise



The Railroad Commission is recognized throughout the United States and the world as a leader in developing a workable regulatory structure for the energy industry

- Iraq
- China
- South Africa
- Canada
- Japan
- India
- Poland
- Republic of Indonesia
- Argentina
- Nigeria
- Italy
- Australia
- Mexico
- Ukraine
- Kurdistan
- Brazil
- Norway
- Algeria
- Egypt
- Tunisia
- Morocco
- Latvia
- Estonia
- Uruguay



Oil and Gas Regulation:

- Spills
 - that occur at oil and gas exploration or production sites
 - from RRC permitted oil and gas waste haulers on public roadways
 - related to the transportation of crude and natural gas by pipeline
- Air
 - flaring and venting; “waste of natural resources”
 - H₂S gas with **100 ppm** or greater concentration
 - concentrations below 100 ppm addressed by TCEQ



Oil and Gas Regulation:

- Water
 - wastewater at the drilling rig or disposal well site
 - contact storm water discharge: considered oil and gas waste
 - discharge of oil and gas waste to surface waters of the state
 - authorization required from both RRC and EPA –R6
- Waste
 - generated on-site at the lease specific to the exploration, drilling or production



Oil and Gas Regulation:

- Statewide Rule 8 (§3.8 Water Protection)
 - no person subject to RRC may cause or allow pollution of surface or subsurface water
 - no person may dispose of oil and gas waste except as authorized or permitted by RRC
- Statewide Rule 13 (§3.13 Casing, Cementing, Drilling, Well Control, and Completion Requirements)
 - strict well construction requirements
 - Groundwater Advisory Unit sets protection depths for each well



Oil and Gas Regulation:

- Underground Injection Control (UIC)
 - delegated to Texas by U. S. Environmental Protection Agency (EPA)
 - Safe Drinking Water Act
 - protects surface and groundwater
 - permitting
 - well monitoring
 - field inspections
 - well construction
 - Mechanical Integrity Testing (MIT)

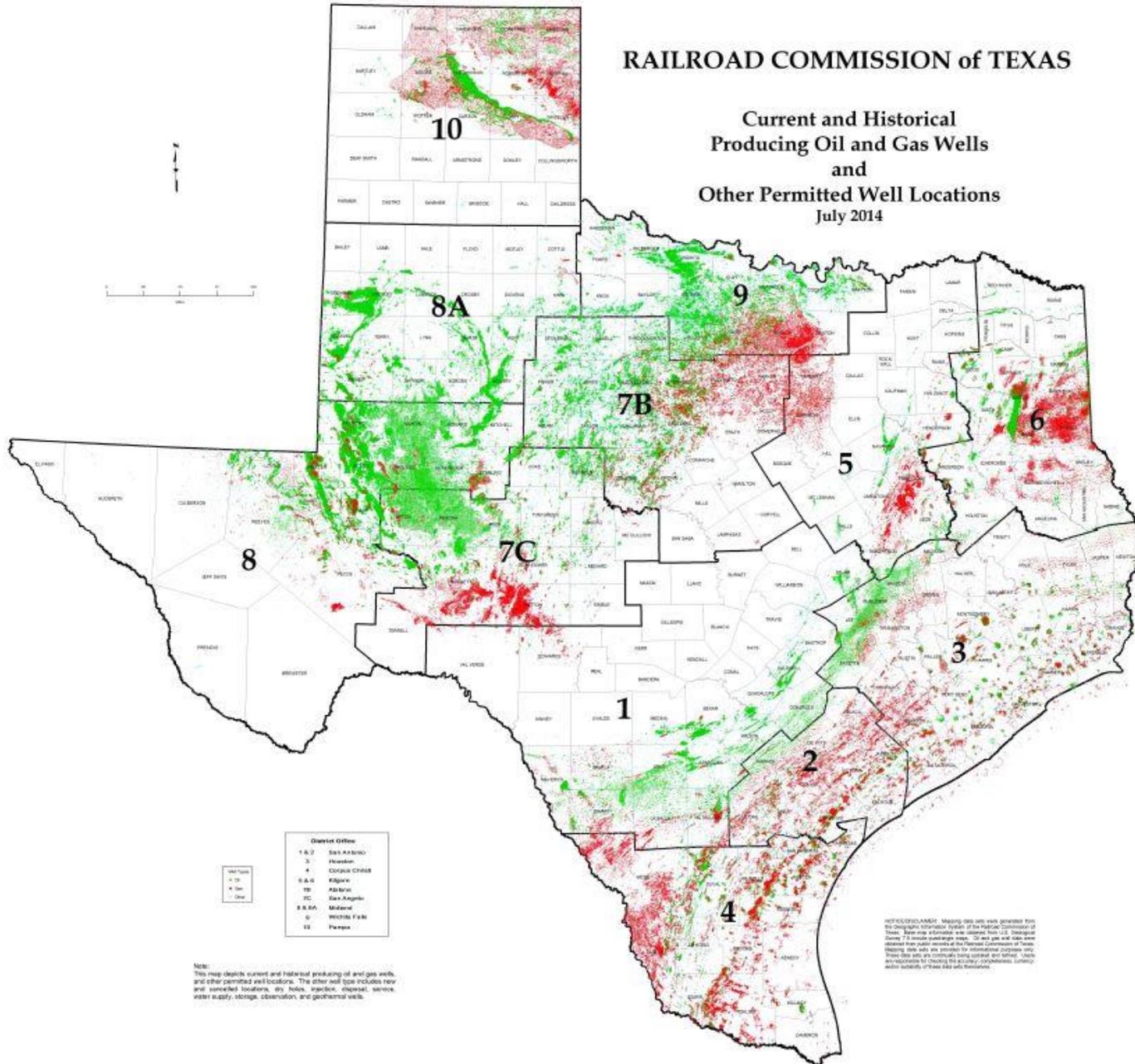


What does not fall under RRC jurisdiction?

- Roads and traffic
- Noise
- Odors and air contaminants
- Mineral interests/leases
- Railroads

RAILROAD COMMISSION of TEXAS

Current and Historical Producing Oil and Gas Wells and Other Permitted Well Locations July 2014



Oil and Gas District Offices



Oil and Gas Division District Offices

Abilene

Corpus Christi

Houston

Kilgore

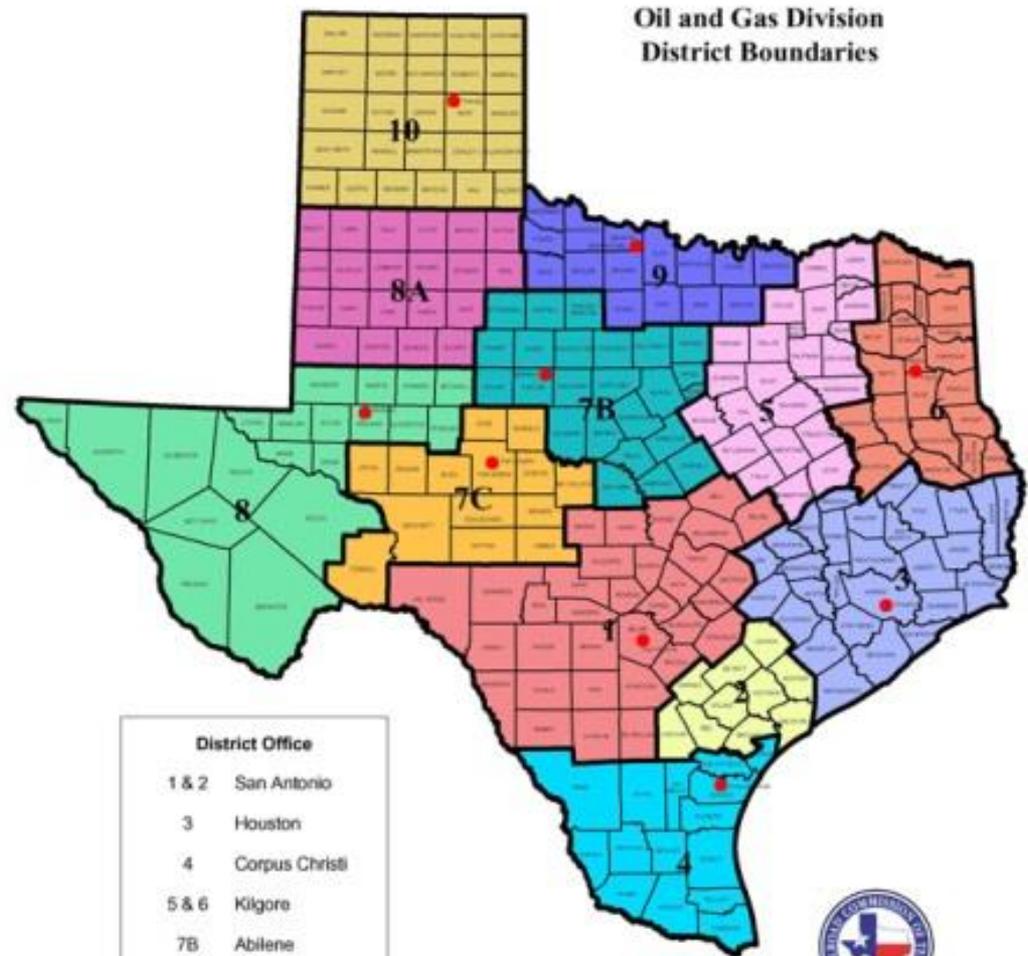
Midland

Pampa

San Angelo

San Antonio

Wichita Falls



District Office	
1 & 2	San Antonio
3	Houston
4	Corpus Christi
5 & 6	Kilgore
7B	Abilene
7C	San Angelo
8 & 8A	Midland
9	Wichita Falls
10	Pampa



RAILROAD COMMISSION of TEXAS
Oil and Gas Division

RRC District Offices



Serve as the eyes and ears of RRC regulatory efforts

- Contact with complaints
- On call **24/7** to respond to emergencies
- Ensure oil and gas activities done in accordance with RRC rules & regulations
- Jurisdiction over specific counties



Enforcement of regulations:

- Permitting
 - administrative review
 - protests/hearings
- Inspections
 - operators not notified prior to inspection
 - frequency varies depending upon nature of operations, environmental sensitive area, history of violations, etc.
- Complaints
 - Field Inspectors are dispatched to location
 - may conduct joint inspection with complainant



Enforcement of regulations:

- Violations
 - notice of violation(s) issued
 - referral to enforcement
 - serious violations may be referred directly to enforcement
 - enforcement action may include:
 - assessment of a penalty
 - well severance
 - revocation of permit to operate in Texas

Enforcement of regulations:

- Well severance
 - prohibits operator from transporting or selling any oil or gas from the lease
- 2004 – 2013:
 - 62.2% of violations corrected upon receipt of notice
 - 33% were resolved following issuance of a severance/seal order
- extremely effective enforcement tool
 - allows the Commission to act swiftly
 - reduces financial cost of enforcement



RRC Fourth of July Closing
In observance of Independence Day, the Railroad Commission of Texas will be closed on Friday, July 3, 2015 and will reopen for regular business Monday, July 6.

Railroad Commission of Texas Mission Statement

The Railroad Commission serves Texas through:

- our stewardship of natural resources and the environment;
- our concern for personal and community safety; and
- our support of enhanced development and economic vitality for the benefit of Texans.

[Learn More](#)

Recent News [View All](#)

[RRC Files Suit Against EPA Overreach-Chairman Porter says new rule is a threat to property rights and Texas economy](#)

June 29, 2015

AUSTIN – Railroad Commission Chairman David Porter announced today that the Railroad Commission of Texas (RRC) has joined a multi-agency, multi-state lawsuit to combat the Environmental Protection Agency's (EPA) unprecedented rule interpretation of navigable waters [Read More...](#)

[RRC Chairman Porter's Statement on the Leadership Changes at the Railroad Commission](#)

June 25, 2015

The following statement can be attributed to Chairman David Porter on leadership changes at the Texas Railroad [Read More...](#)

[RRC PRODUCTION STATISTICS AND ALLOWABLES FOR JULY 2015](#)

June 25, 2015

The Texas average rig count as of June 19, was 363, representing about 44 percent of all active land rigs in the United States according to Baker Hughes Incorporated. The Railroad Commission of Texas (Commission) reports

Commissioners

 Chairman David Porter

 Commissioner Christi Craddick

 Commissioner Ryan Sitton

Useful Links

- [What's New at the RRC](#)
- [Data - Online Research Queries](#)
- [Frequently Asked Questions - FAQs](#)
- [Map - Public GIS Viewer](#)
- [Open Meetings / Conference Agendas](#)
- [RRC Locations](#)
- [Rules](#)

Online Research Queries

The links in the boxes allow users to research oil & gas production, drilling permits, well records, gas utility and pipeline information, surface coal/lignite mining permit information and other related queries.

Note: *The online research queries are intended for use by individuals needing specific information from the Railroad Commission of Texas. The use of automated tools to retrieve volumes of data can cause severe degradation of Railroad Commission of Texas systems. If the query system detects that data is being retrieved using an automated tool, the Railroad Commission of Texas will end the session for that user.*

Requirements for Accessing Online Research Queries

The Railroad Commission of Texas recommends accessing the online research queries using a broadband Internet connection (Cable Modem, DSL, Fiber, Wireless, Satellite are common examples). A dial-up connection may work, but performance will not be desirable.

Adobe Acrobat Reader 9.5 or higher should be used AND one of the following browsers:

- Microsoft Internet Explorer 10 or higher
- Mozilla Firefox 10 or higher
- Google Chrome 20 or higher
- Apple Safari 5 or higher

Oil & Gas

Type of Query		
Completions Query		Launch application
Drilling Permit (W-1) Query		Launch application
Electronic Document Management System	Learn more	Launch application
Field Rules Query		Launch application
H-10 Annual Disposal/Injection Well Monitoring Report Query	Learn more	Launch application
Inactive Well Query		Launch application

Select a Query System to search:

[Oil & Gas](#)

[Natural Gas Services](#)

[Pipeline Safety](#)

[Surface Mining & Reclamation](#)

[Alternative Fuels](#)

[Home](#) / [About Us](#) / [Resource Center](#) /

Frequently Asked Questions

[Who Regulates Railroads in Texas?](#)

June 23, 2014

[Read More...](#)

[Alternative Fuel FAQs](#)

May 13, 2014

[Read More...](#)

[Gas Services FAQs](#)

May 13, 2014

[Read More...](#)

[General FAQs](#)

August 05, 2014

[Read More...](#)

[Mining & Exploration FAQs](#)

May 13, 2014

[Read More...](#)

[Oil & Gas FAQs](#)

July 30, 2014

[Read More...](#)

[Oil & Gas Exploration and Surface Ownership](#)

November 12, 2014

[Read More...](#)

[Pipeline Safety FAQs](#)

TCEQ's Role in Urban Drilling

City of Arlington Urban Drilling Educational Forum
August 1, 2015

Elizabeth Smith, Air Section Manager
TCEQ DFW Region



Texas Commission on Environmental Quality (TCEQ)

- TCEQ is the environmental agency for the state.
- We strive to protect our state's public health and natural resources consistent with sustainable economic development. Our goal is clean air, clean water, and the safe management of waste.

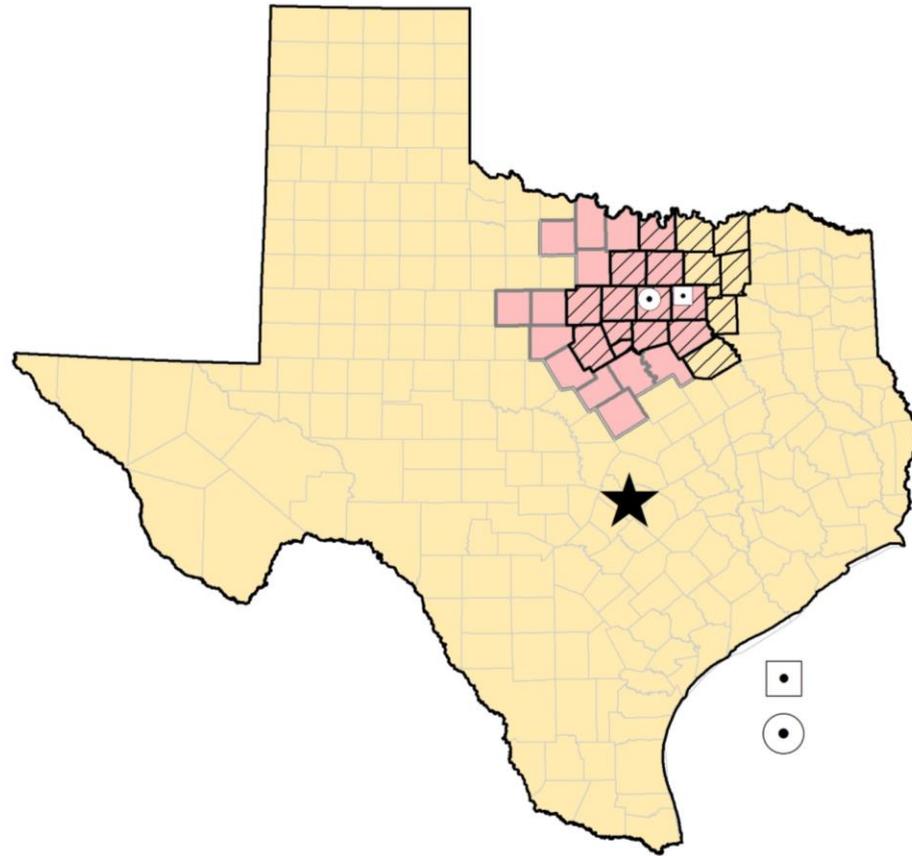
Office of Compliance and Enforcement

- Enforce compliance with the state's environmental laws
- Respond to emergencies and natural disasters that threaten human health and the environment
- Oversee dam safety, and monitors air and water quality within Texas
- Includes the 16 regional offices

Field Operations Division – Regional Offices

- Major responsibilities include:
 - Investigating compliance at permitted and registered air, water, and waste facilities located across the state
 - Investigating complaints at facilities and operations—permitted or not—from citizens, businesses and other organizations, or other concerned parties.
 - Developing enforcement-action referrals for violations identified during investigations.
 - Environmental education and technical assistance for communities as needed.
 - Monitoring the quality of ambient air, surface water (rivers, lakes, and bays), and public drinking water.

Barnett Shale Counties with DFW Region Overlay



TCEQ's Role in the Regulation of Oil and Gas Activities

- While the regulation of oil and gas activities in Texas falls primarily under the jurisdiction of the Railroad Commission of Texas, the TCEQ plays an important role in the areas of air quality, surface water management and water quality, and waste management.
- The Memorandum of Understanding (MOU) between the RRC and TCEQ provides additional explanation of the agencies' jurisdictions over various O&G activities.
- The MOU can be found in Title 16 Texas Administrative Code (TAC) §3.30

TCEQ's Role in the Regulation of Oil and Gas Activities - Complaints

- In general, complaints for O&G exploration, production, and transportation should be directed to the appropriate RRC district office.
- Odor – Nuisance odors are investigated by the TCEQ.
- Dust – Dust from public roads should be addressed by the local government.
- Traffic – Traffic complaints should be reported to the local law enforcement agency.
- Drinking Water
 - Private Wells – Suspected contamination should be reported to the RRC.
 - Public Water Supply – Concerns related to public drinking water supply should be reported to TCEQ.
- Noise – Noise complaints should be reported to the local law enforcement agency

TCEQ's Role in the Regulation of Oil and Gas Activities - Spills

- Classification of a spill determines which agency has jurisdiction over the spill.
- The RRC has authority for responding to:
 - Spills associated with the exploration, development, and production of O&G
- The TCEQ is the state's lead agency in responding to releases of:
 - Hazardous Substances
 - Refined Petroleum Products
 - Abandoned containers of unknown substances that are not leaking

TCEQ's Role in the Regulation of Oil and Gas Activities - Air

- Air – Regulations and Permitting
 - RRC during drilling or exploration activities
 - TCEQ after Drilling and at Facilities such as Tank Batteries and Compressor Stations
 - Title 30 Texas Administrative Code §§101-122
 - Title 40 Code of Federal Regulations §§60-63

TCEQ's Role in the Regulation of Oil and Gas Activities – Waste

- Waste – Regulation and Permitting
- In general, wastes from O&G related activities are regulated by the RRC; however, there are some exceptions.
- The TCEQ has jurisdiction over:
 - Waste associated with transportation of crude oil and natural gas by railcar, truck, barge, or oil tanker and refined petroleum products by pipeline
 - Wastes generated at oil field service facilities that provide equipment, materials, or services to the O&G industry
 - Wastes from O&G activities that are processed, treated, or disposed of at a solid waste management facility authorized by the TCEQ
 - Residential-like waste generated from the living quarters located on the lease.

TCEQ's Role in the Regulation of Oil and Gas Activities – Water

- Water – Regulations and Permitting
- Wastewater and Storm Water (oil and gas exploration and production)–local RRC District Office and/or EPA Region 6
- TCEQ handles Public Water Systems, Public Drinking Water, Water Rights, Dam Safety, Sludge Applications and On Site Sewage Facilities (OSSF)
- The TCEQ has jurisdiction over:
 - Domestic sewage (including waterborne human waste and waste from activities such as washing, bathing and food preparation) generated at living quarters located on oil and gas leases but not in proximity of a particular well site. Required to be transported by a TCEQ registered sludge transporter to a facility authorized to accept domestic sewage.

TCEQ Investigations

- Common Types of Investigation
 - Complaints
 - Compliance
 - Reconnaissance
 - Emission Events
 - Emissions Evaluations (Stack tests)
 - Emergency Response

TCEQ Investigations

- Notification received from
 - Complainant
 - Regulated Entity
 - Local or Elected Officials
 - Media
 - Previous Investigations
 - Investigator Observations
- When giving notification, be prepared to provide
 - Contact information including name, address and phone number
 - The nature of the problem
 - The location of the problem
 - When the problem occurred (date and time)
 - Who or what is the source of the problem
 - Any information or evidence you may have

TCEQ Investigations

- Pre-Investigation
 - Contact complainant to discuss details of the complaint and any evidence the complainant may have
 - Review information in file
 - Research other available information sources
 - Determine appropriate timeframe in which to conduct the investigation
 - Schedule investigation if required for the investigation type

TCEQ Investigations

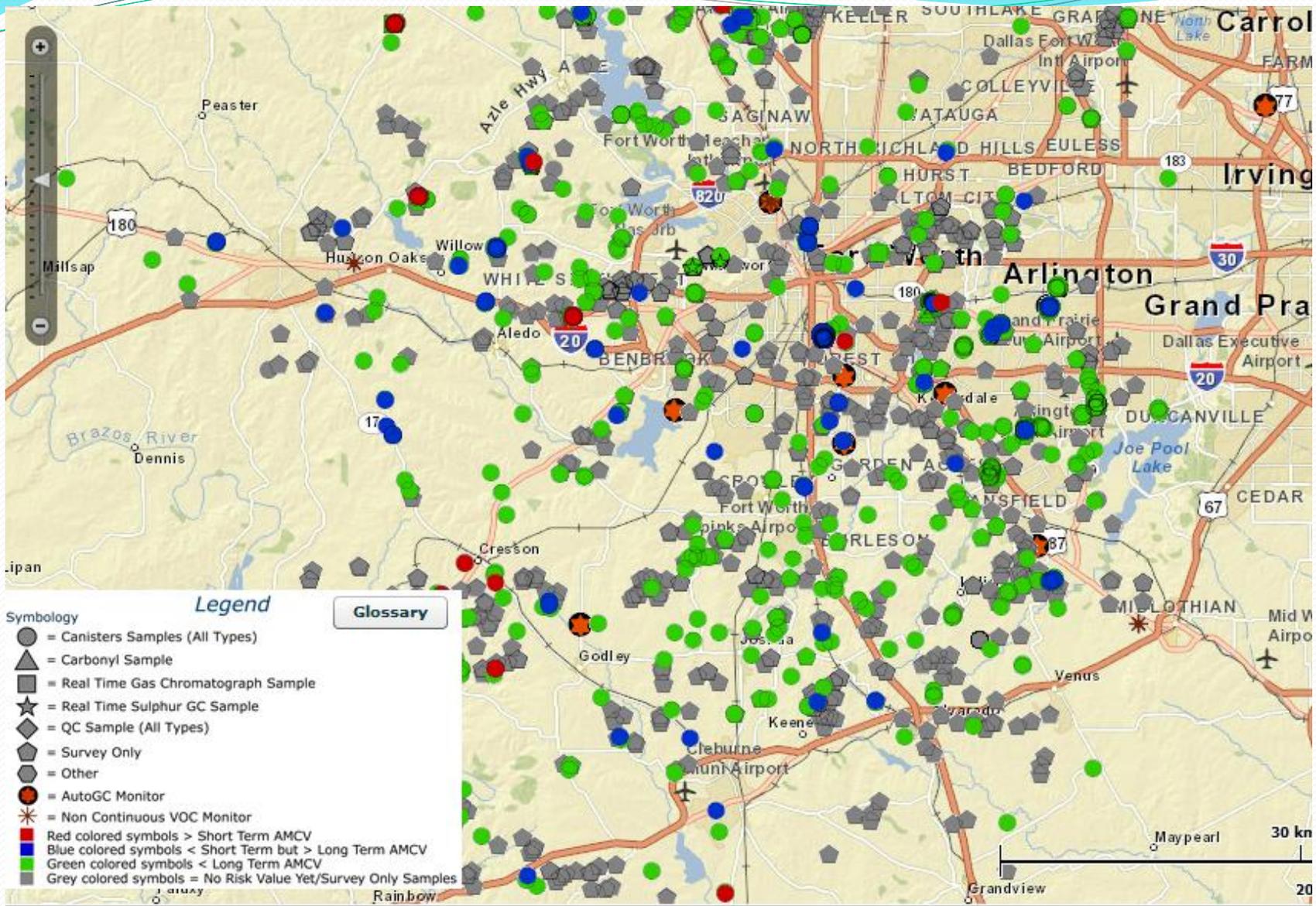
- Investigation
 - In most cases, an on-site investigation will be done to see if any environmental regulations have been violated.
 - Most on-site investigations include:
 - Surveillance off-property around the alleged source
 - Meeting with the complainant at their property
 - Meeting with the regulated entity
 - Can use equipment to help determine equipment or processes that may need further evaluation

TCEQ Investigations

- Optical Gas Imaging Camera (OGIC) to check for potential emissions
- Handheld analyzer(s) to check for VOC emissions or sulfur emissions
- Obtain canister sample(s) if necessary
- Sample results will indicate if any compounds are exceeding short- or long- term Air Monitoring Comparison Values

TCEQ Investigations

- OGIC
 - Used to view potential hydrocarbon emissions
 - Can also detect steam
 - Cannot speciate emissions
 - Cannot quantify emissions
- Handheld Analyzers
 - Can detect VOCs or Sulfur Compounds
 - Cannot speciate emissions
- Passivated, Stainless Steel Canister (Summa Canister)
 - Can speciate emissions
 - Can quantify emission concentrations
 - Does not give instantaneous results
 - Must be analyzed by lab



Legend

- Symbology**
- = Canisters Samples (All Types)
 - ▲ = Carbonyl Sample
 - = Real Time Gas Chromatograph Sample
 - ★ = Real Time Sulphur GC Sample
 - ◆ = QC Sample (All Types)
 - ◇ = Survey Only
 - ◊ = Other
 - (orange) = AutoGC Monitor
 - ★ (orange) = Non Continuous VOC Monitor
 - (red) = Red colored symbols > Short Term AMCV
 - (blue) = Blue colored symbols < Short Term but > Long Term AMCV
 - (green) = Green colored symbols < Long Term AMCV
 - (grey) = Grey colored symbols = No Risk Value Yet/Survey Only Samples

Glossary

30 km
20

TCEQ Investigations

- If unexpected emissions detected from alleged source, will either contact company to come onsite immediately or will send questionnaire.
- Complainant must provide written statement or affidavit describing impact from nuisance conditions. They may also provide an odor log in order for frequency, intensity, and duration to be assessed.
- If health impacts are alleged, either the investigator must experience same health impacts or complainant must provided medical documentation.

TCEQ Investigations

- Based on information collected, the investigator will determine if they have evidence to support nuisance violation.
- Also determine whether any other violations were discovered during course of investigation, such as not complying with conditions of authorization or exceeding emission thresholds.

Violations

- If the investigation reveals a violation, we will take appropriate enforcement action to ensure that the violation is corrected. Actions could include issuing an order to correct the problem and assess a fine, or filing a lawsuit against the violator.
- Notice of Violation
- Notice of Enforcement
 - Can result in orders to enforce corrective action
 - Can impose financial penalties

Emergency Response

- The TCEQ is the state's lead agency in responding to spills of all hazardous substances, including refined petroleum products from pipelines; releases of crude oil being transported over the roadway; and discharges of any other substances that may cause pollution or that may harm air quality.

Emergency Response

- TCEQ personnel can provide technical and regulatory assistance in the management of wastes and other residual materials that result from spills within the agency's jurisdiction
- Technical assistance is provided in other related areas such as spill notifications, contingency-plan issues, cleanup levels, and in-state funded cleanups.
- The TCEQ and the Texas General Land Office jointly serve as the state's primary members of the federal Regional Response Team for the U.S. EPA Region VI
- TCEQ represents the state in matters related to inland spills or releases of oil, and inland or coastal releases of hazardous substances or other pollutants.
- The agency also responds to pollution events and the needs of local government, the regulated community, and the public associated with natural disasters.

Emergency Response

- In past ER events at oil and gas sites, TCEQ DFW Region Office has
 - Provided air monitoring
 - OGIC to check for potential emissions
 - Handheld analyzer(s) to check for VOC emissions or sulfur emissions
 - Canister sample(s)

Helpful Links

- TCEQ Home Page - www.tceq.state.tx.us
- Complaints
 - Contact local regional office – DFW 817-588-5800
 - Complaint Hotline 888-777-3186
 - Online <http://www.tceq.texas.gov/compliance/complaints/index.html>.
- TCEQ Oil and Gas Activities page
<http://www.tceq.state.tx.us/assistance/industry/oil-and-gas/oilgas.html>
 - Link for [Who Regulates Oil and Gas Activities in Texas](#)
- Barnett Shale Geological Area Information
<https://www.tceq.texas.gov/airquality/barnettshale>
- Questions on TCEQ permitting process
 - Public Education Program (PEP): 800-687-4040
- Emergency Response - www.tceq.state.tx.us/response



takecareoftexas.org

For more information educate@tceq.texas.gov

Urban Drilling Educational Forum

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