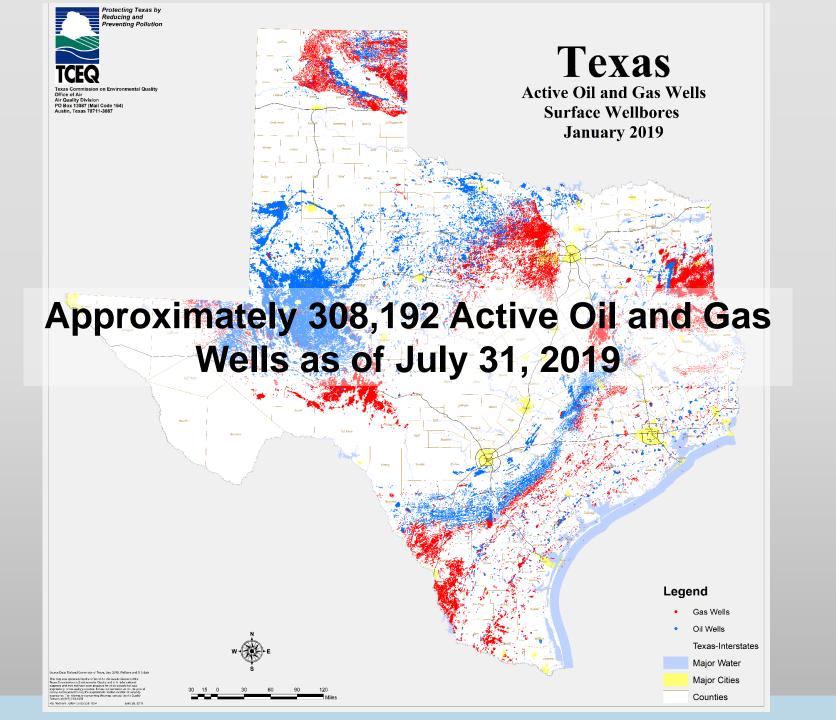




# Update on TCEQ Oil & Gas Regulatory Activities in Texas

Texas Commission on Environmental
Quality
Office of Compliance and Enforcement





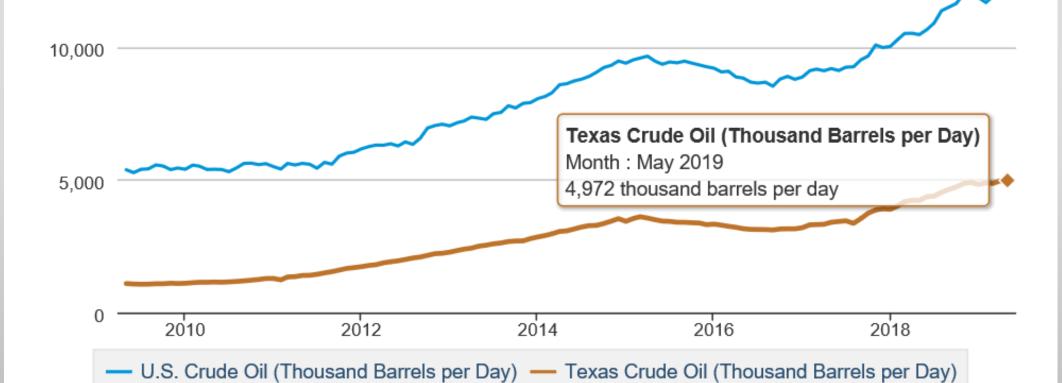






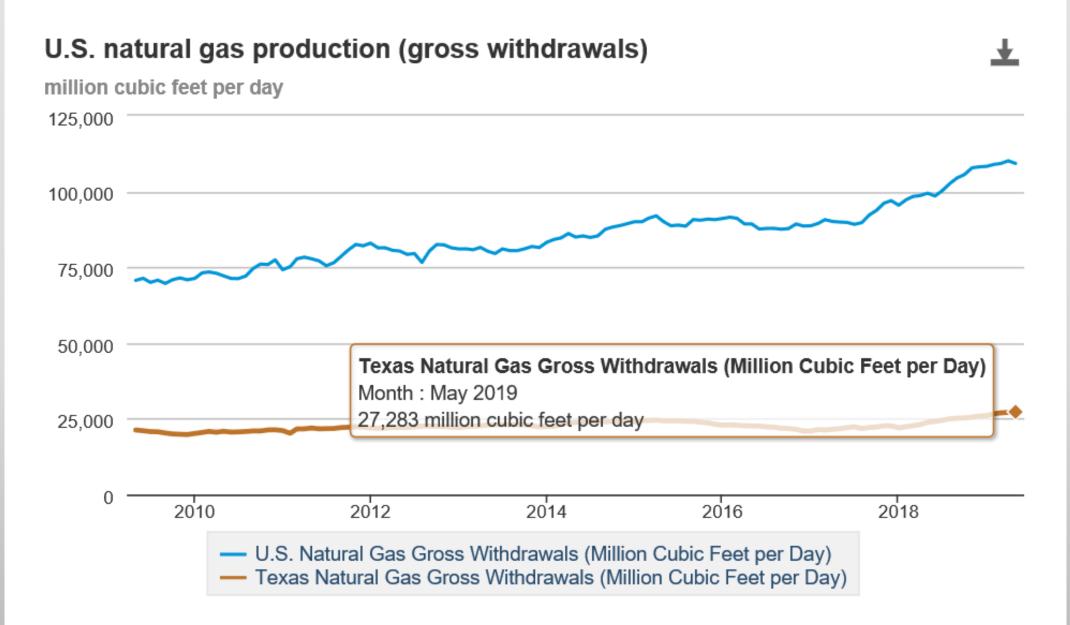
thousand barrels per day

15,000





Source: U.S. Energy Information Administration





Source: U.S. Energy Information Administration

# TCEQ's Regulatory Role



- The Texas Commission on Environmental Quality's (TCEQ's) primary regulatory role with O&G is regulating air emissions and ensuring air quality, as well as any potential impact to water.
- Investigations performed in response to oil and gas activities in multiple programs.



# **Compliance Tools**



#### **Environmental Assistance Division**

**Publications** 

Regulatory Workshops

TCEQ Websites

**Guidance Documents** 



**General Education Events** 

Telephone Hotlines

**Permitting Guidance & Workshops** 

"Environmentors"



**On-site/Off-site Facility Assistance** 

# TCEQ Office of Compliance and Enforcement - Critical Functions -

- Conduct Compliance Investigations
- Investigate Complaints
- Review Emission Events Reported to TCEQ
- Issue Notices of Violation
- Issue Enforcement Orders
- Conduct ambient monitoring of air quality
- Respond to environmental emergency incidents







# Investigation Update



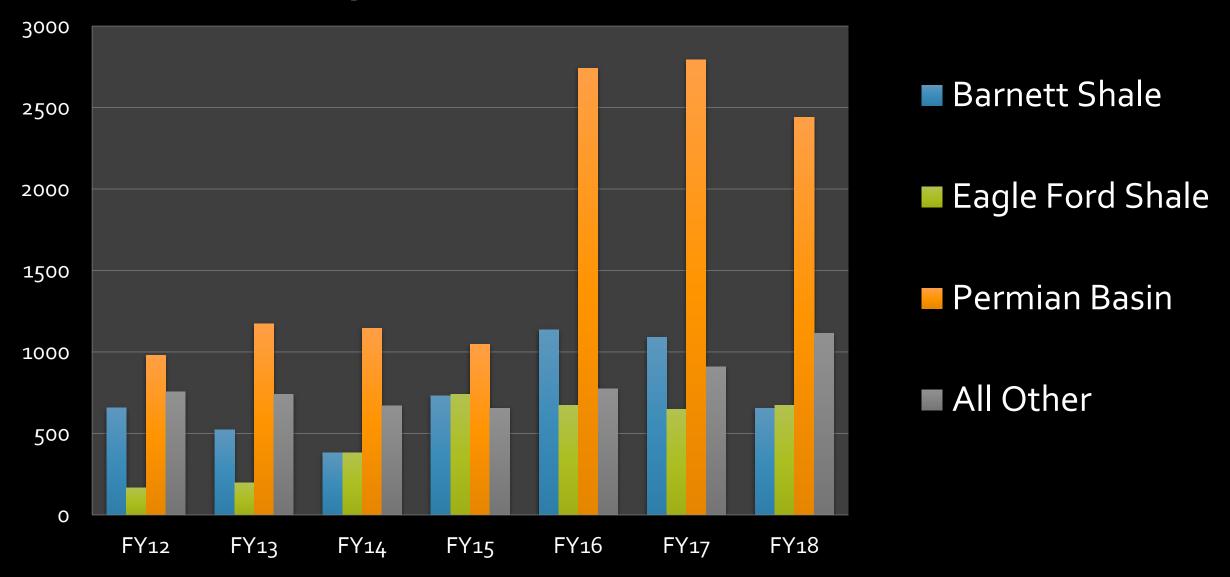
## TCEQ Investigation Types

- Regularly scheduled investigation
- Complaint response investigation
- > U.S. EPA or TCEQ initiative
- Spill response or emergency response
- Referral from another governmental entity





## Air Investigation Activities Upstream & Midstream O&G



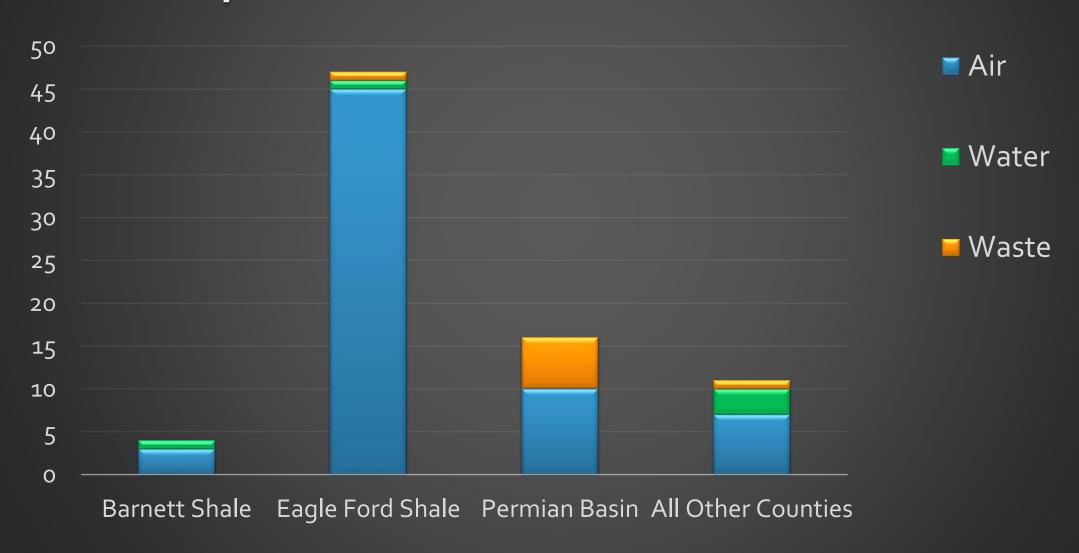
## Complaint Response

TCEQ responds to all complaints received under its jurisdiction:

- Considered a core mission of the agency
- Complaints are assigned a priority with corresponding investigation timeline
- Alleged health related issues are considered our highest priority



# FY2018 Complaints Received Upstream & Midstream O&G Sites





# Reported Emissions

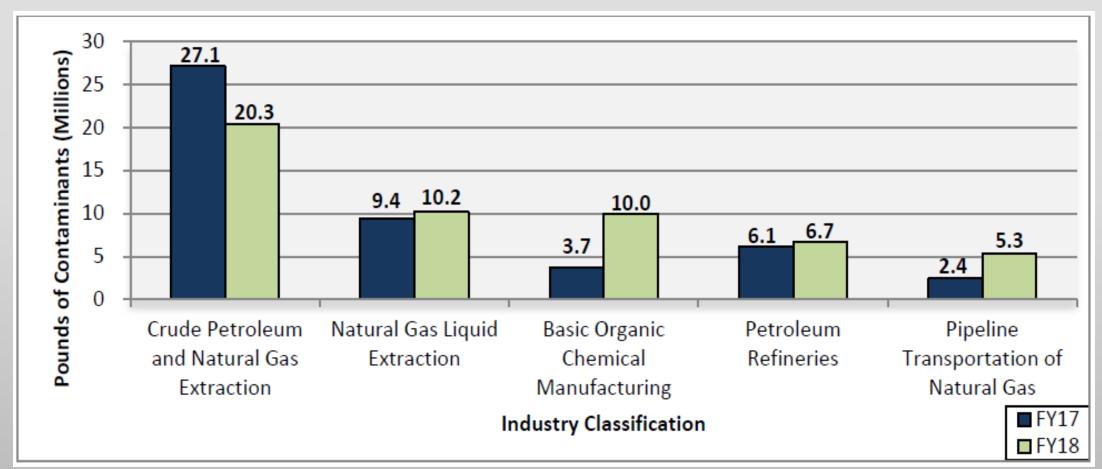


# FY2018 Incidents Reported by Industry Type Under 30 TAC Chapter 101, Subchapter F

Industry Type	Emissions Events	Scheduled Maintenance	Scheduled Startup	Scheduled Shutdown	Excess Opacity	Total
Crude Petroleum and Natural Gas Extraction	1,990	32	3	3	1	2,029
Natural Gas Liquid Extraction	435	34	7	9	6	491
Petroleum Refineries	259	14	10	5	15	303
Pipeline Transportation of Natural Gas	86	7	0	0	0	93
Fossil Fuel Electric Power Generation	24	12	3	1	29	69
Petrochemical Manufacturing	31	2	2	0	0	35



# Quantity of Contaminants by Industrial Classification FY2017 & FY2018







# Innovative Approaches & Outreach



#### Optical Gas Imaging Camera (OGIC)



- Using the OGIC, we can potentially locate under reported or unrecognized VOC source types
- The camera is capable of locating and imaging emissions from various sources of air pollution
- Documented images of emissions for follow-up

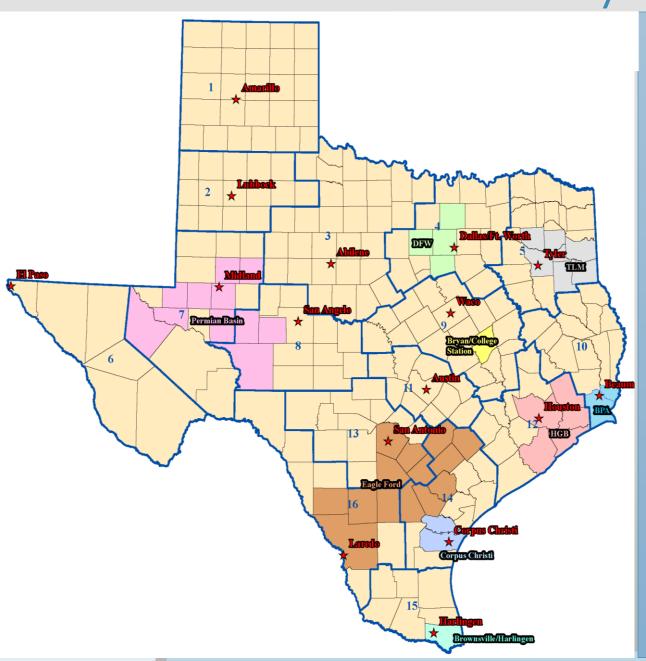


## TCEQ Statewide OGIC By the Numbers



- 20 Cameras
- Approximately 100 certified operators
- 2 Level III Infrared Training Center certified thermographers
- 1 level II ITC certified thermographer
- internal TCEQ certification program
- 2 to 4 flyovers per year

## Flyovers with OGIC



- TCEQ has conducted multiple contractor-led aerial surveys or flyovers using a helicopter mounted with an optical gas imaging camera (OGIC) capable of detecting sources of air emissions:
- Effective screening tool;
- Evaluate large geographical areas;
- Allows TCEQ to focus resources on potentially problematic areas; and
- Thousands of individual tanks have been surveyed.



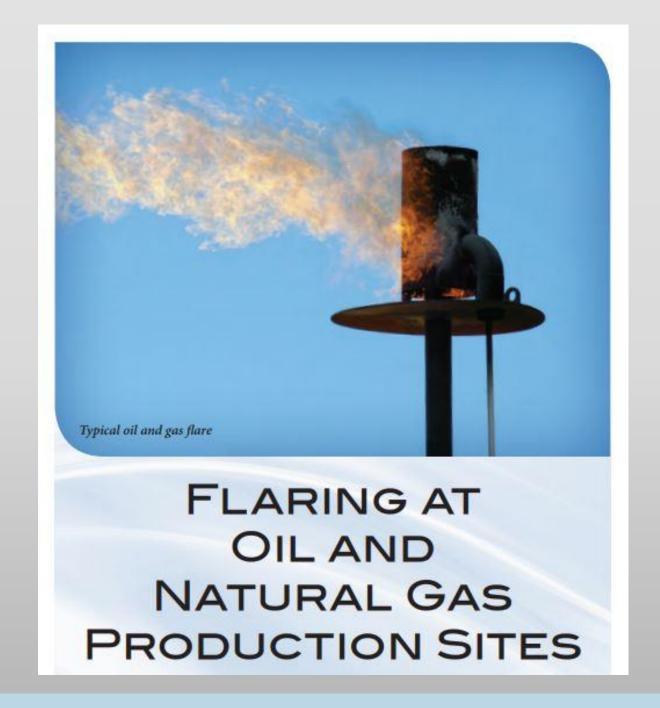
#### TCEQ's Outreach Activities



- Publications, Web Info, & FAQs
- Local Government Workshops, Public Workshops, Town Hall Meetings & Open Houses
- Outreach to County Judges
- Coordination with Railroad Commission of Texas
- TCEQ Environmental Trade Fair Oil & Gas Track
  - In May of each year

#### TCEQ GI-457

- Explains what production flares are and why they are necessary
- If a visible flame is really ok
- Why a flare smokes
- Contains links to additional resources and contact information for submission of complaints





### Other Avenues to Compliance

- The Texas Audit Act is one avenue to helping an entity achieve voluntary compliance
- The TCEQ Program Support and Environmental Assistance Division also offers assistance through programs like the EnviroMentor Program and other compliance assistance options.



#### **Audit Act Incentives**

 Limited evidentiary privilege for certain information gathered in a voluntary self-audit.

 Immunity from administrative and civil penalties for certain violations voluntarily disclosed as a result of such an audit.



### **Immunity**

- Tex. Health & Safety Code \$1101.151
- Disclosed violations may be granted immunity from administrative or civil penalties:
- Proper notice of intent to conduct an audit
- Proper, voluntary disclosure of violations
- Violations corrected in a reasonable amount of time



#### **Audit Act**

- Most Common Violations:
  - Failure to obtain the proper authorization
  - Failure to properly maintain emission control devices
  - Failure to maintain records



## TCEQ Publication RG-173

 A Guide to the Texas Environmental, Health, and Safety Audit Privilege Act

 May be found on our website at: <a href="https://www.tceq.texas.gov/assets/public/comm\_exec/pubs/rg/rg-173.pdf">https://www.tceq.texas.gov/assets/public/comm\_exec/pubs/rg/rg-173.pdf</a>



#### TCEQ's Oil and Gas Web Site

 Oil and Gas Facilities: Compliance Resources: http://www.tceq.texas.gov/assistance/industry/oil-and-gas/oilgas.html

• Compliance information on air, water, waste, and spill issues

Guidance documents for local governments

Sign up for email updates for Oil & Gas



# Thank you



Keith Sheedy, P.E. 512-239-1556 Keith.sheedy@tceq.texas.gov





