

# Memorandum



CITY OF DALLAS

DATE August 7, 2015

TO Honorable Members of the Quality of Life & Environment Committee: Sandy Greyson (Chair),  
Tiffinni A. Young (Vice Chair), Rickey D. Callahan, Mark Clayton, Philip T. Kingston, B. Adam McGough

SUBJECT **Annual Air Quality Monitoring and Compliance Agreements with TCEQ**

On Monday, August 10, 2015, the Quality of Life & Environment Committee will be briefed on Annual Air Quality Monitoring and Compliance Agreements with TCEQ. A copy of the briefing is attached.

Please feel free to contact me if you have any questions at (214) 670-5299.

A handwritten signature in black ink, appearing to read 'Jill Jordan'.

Jill A. Jordan, P.E.  
Assistant City Manager

c: Honorable Mayor and Members of the City Council  
A.C. Gonzalez, City Manager  
Warren M.S. Ernst, City Attorney  
Craig D. Kinton, City Auditor  
Rosa A. Rios, City Secretary  
Daniel F. Solls, Administrative Judge  
Ryan S. Evans, First Assistant City Manager  
Eric D. Campbell, Assistant City Manager  
Mark McDaniel, Assistant City Manager  
Joey Zapata, Assistant City Manager  
Jeanne Chipperfield, Chief Financial Officer  
Sana Syed, Public Information Officer  
Elsa Cantu, Assistant to the City Manager – Mayor & Council

# Annual Air Quality Monitoring and Compliance Agreements with TCEQ

Presented to the  
**Quality of Life & Environment Committee**  
August 10, 2015



# Purpose of Briefing

- Provide Committee with background information about air quality monitoring and regulation enforcement in Dallas  
Prior briefings include:
  - June 23, 2014 briefing to Quality of Life Committee presented by the Office of Environmental Quality, entitled: ***DFW Air Quality and State Implementation Plan Update***
  - October 27, 2014 briefing to Quality of Life Committee presented by Public Works, entitled: ***Used Car Lots – Air Registration Fees***
- Describe the City’s contract agreements with the state environmental agency
- Advise Council of upcoming renewals of 5 contract agreements



# Maintaining the Balance

# Air Quality Standards

- **Federal Clean Air Act:** Passed in 1970; Amended in 1990
- Requires the Environmental Protection Agency (EPA) to establish **health-based standards** called National Ambient Air Quality Standards (NAAQS)
- Six Criteria Pollutants
  - ❑ Ground Level Ozone/Smog (O<sub>3</sub>)
  - ❑ Particulate Matter (PM)
  - ❑ Lead (Pb)
  - ❑ Nitrogen Dioxide (NO<sub>2</sub>)
  - ❑ Sulfur Dioxide (SO<sub>2</sub>)
  - ❑ Carbon Monoxide (CO)

*Information on this slide corresponds to same information in the 06/23/2014 briefing to Quality of Life Committee presentation by the Office of Environmental Quality*



# Current Strategies for Air Quality

## ■ Internal City strategies

- ❑ Reduce vehicle emissions
- ❑ Reduce electricity consumption
- ❑ Purchase renewable energy
- ❑ Implement an Ozone Action Plan

## ■ Community-wide strategies

- ❑ Reduce vehicle emissions (*i.e.; idling and taxi ordinances*)
- ❑ Promote GREEN policies and ordinances
- ❑ Enforce state's air regulations within city limits
  - City Code Chapter 5A-Air Pollution
  - Mirrors state regulations pertaining to air quality
  - Managed by the Public Works Dept

*Information on this slide corresponds to same information in the 06/23/2014 briefing to Quality of Life Committee presentation by the Office of Environmental Quality*

# Enforcing the Standards

- EPA has the primary authority for air quality monitoring, based on federal regulation
- In Texas, EPA has delegated authority to the Texas Commission on Environmental Quality (TCEQ)
- Throughout Texas, TCEQ has either:
  - administered the regulations directly
  - or
  - contracted with local authorities to administer the regulations and conduct enforcement, in co-operation with the TCEQ
- In Dallas, TCEQ has partnered with the City for more than 20 years
  - Five (5) contract agreements with TCEQ for various services
    - On 3 contracts, TCEQ reimburses for ALL costs
    - On 2 contracts, TCEQ provides a 67%-to-33% cost-sharing split with the City
  - All 5 contracts are ready for renewal on August 26, 2015 agenda



# PBW Air Pollution Control Services - Verification and Inspection

- City acts as local agent of TCEQ to review facility requirements and enforce air quality rules
  - Verify air permits and registrations, and inspect facilities that have the potential to emit pollutants
  - 1,498 facilities on record in 2015
  - Includes 17 “major sources” such as: steel foundries, manufacturers (like Texas Instruments), solid waste sites, others
  - Also includes 835 “non-major sources” such as: concrete batch plants, paint-and-body shops, gas station pumps
  - and 646 used car lots





# PBW Air Pollution Control Services – Air Sampling

- Daily air quality sampling for:
  - ❑ Ozone
  - ❑ Sulfur dioxide
  - ❑ Lead
  - ❑ Carbon monoxide
  - ❑ Nitrogen oxides
  - ❑ Dust/particulates
  - ❑ Biological contaminants
- City acts as extension of TCEQ for monitoring the ambient air quality
  - ❑ Sets up sampling sites per TCEQ instructions
  - ❑ Verifies that sampling stations operate properly
  - ❑ Delivers physical samples to local laboratory
  - ❑ Coordinates regionally and nationally with numerous agencies
- This service provides information to Dallas about its air quality - such as “Ozone Awareness Alerts” - and serves to create statewide trend analyses for air quality planning



# PBW Air Pollution Control Services - Complaint Investigations



- Investigates complaints from citizens related to air quality issues
- Citizens voice concerns about a variety of issues, like:
  - Odors
  - Dust/Allergens
  - Smoke
- 49 cases (to date) in FY15
- TCEQ is notified of each investigation and the outcome

# Used Car Lot Inspections

- 646 used car lots in Dallas
- TCEQ has funded inspections of these lots to prevent cars from being sold without proper emission control systems – specifically, to detect where emission systems have been tampered with
- All lots are inspected every 1-3 years
- Value of the City’s inspection has steadily lessened as:
  - ❑ car manufacturers build better tamper-proof emission systems
  - ❑ car owners submit their cars for annual inspections which check for emissions



# Used Car Lot Inspections

- Recommend eliminating this service and the fee in FY16
- TCEQ concurs with recommendation
  - TCEQ will eliminate the requirement for “Used Car Lot” inspections from their Dallas Work Scope – at City request
  - TCEQ will maintain the annual grant funding amount to City, and allocate funds to other required inspection work
- Funding changes to FY16 budget
  - Decrease expenditures (staffing level) by \$58,000
  - Decrease fee revenue by \$54,000

# TCEQ's contracts with City

- Five contracts for various services
- Renewed annually

<b>FY16 Air Quality Contracts with TCEQ</b>				
<u>Contract Name &amp; Number</u>	<u>Description</u>	<u>Total funds</u>	<u>TCEQ share</u>	<u>Dallas share</u>
<b>Air Quality Compliance - emissions</b> # 582-15-50121	Field inspections of possible pollution emitters (industries, gas stations, other); citizen complaint investigations; review of air permit requests for TCEQ	\$ 783,757	\$ 525,117	\$ 258,640
<b>Ambient Air Monitoring</b> <i>(two-year contract)</i> # 582-14-4015	Daily sampling the outdoor air at 8 locations in Dallas for pollutants (ozone, nitrous oxides, sulfur oxides, lead, carbon monoxides)	\$ 548,941	\$ 367,790	\$ 181,151
<b>Fine Particle Monitoring (PM2.5)</b> # 582-15-50039	Daily sampling the outdoor air at several locations in Dallas for tiny particles of dust / smoke / fumes harmful to respiratory system	\$ 67,587	\$ 67,587	\$ -
<b>Ambient Air - Rockwall</b> # 582-15-50031	Daily sampling the outdoor air at one location in Rockwall for ozone and nitrous oxides	\$ 28,053	\$ 28,053	\$ -
<b>BioWatch</b> # 582-16-50016	Daily sampling of outdoor air at 20 locations in Dallas for biologic pollutants (i.e.; bacteria)	\$ 477,811	\$ 477,811	\$ -
<b>Contract TOTALS:</b>		<b>\$ 1,906,149</b>	<b>\$ 1,466,358</b>	<b>\$ 439,791</b>
<b>FY16 (only) TOTALS:</b>	Note that 2nd contract is two-year term and two-year funding	<b>\$ 1,631,678</b>	<b>\$ 1,282,463</b>	<b>\$ 349,216</b>



# How does the City benefit?

- **Partnerships** benefit from the best of both parties
  - ❑ Dallas' team is quick in responding to citizen calls / concerns / complaints
  - ❑ TCEQ has invested in air sampling equipment, data communications systems, and provides training
  - ❑ Dallas is knowledgeable about our city's industry, traffic, developments – can better identify where air monitoring should be done
  - ❑ TCEQ has expertise to analyze air data – and propose strategies
- Both parties have a “seat at the table” to best formulate air quality control measures and set performance incentives and standards



# Council Action

- Contract renewals are on the August 26, 2015 agenda
- Requesting that Committee recommend approval of the 5 agenda items to renew the contracts