

# Environmental Master Plan

*External Stakeholder Meeting 1*

*November 1, 2017*

**Presented by:**

Cody Whittenburg – Environmental Quality Division, Environmental Manager

Brandi Kelp – Environmental Quality Division, Environmental Planner

Rachel Turney-Work – Enercon Services, Inc.

Karen Walz – Strategic Community Solutions LLC

# Agenda

- Background and Introduction (6:00 – 6:25)
- Introductory Survey (6:25-6:35)
- Focused discussion on first 3 chapters
  - Air Quality (6:35 – 7:00)
  - Hazardous Materials Management (7:00 – 7:30)
  - Land Reclamation (7:30-7:50)
- Verbal public comment – (7:50 – 8:00, if time permits)
  - Please use comment forms for additional written comments



# Background



# Fort Worth Mission & Vision

## Mission

...focusing on the future and working together to build strong neighborhoods, develop a sound economy and provide a safe community.

## Vision

...be commonly recognized as the most livable city in Texas.



**2017  
Comprehensive  
Plan**

# Fort Worth Strategic Goals

- Be the Nation's Safest City
- Improve Mobility and Air Quality
- Create and Maintain a Clean & Attractive City
- Strengthen Economic Base, Develop Workforce, Create Quality Jobs
- Promote Orderly and Sustainable Development



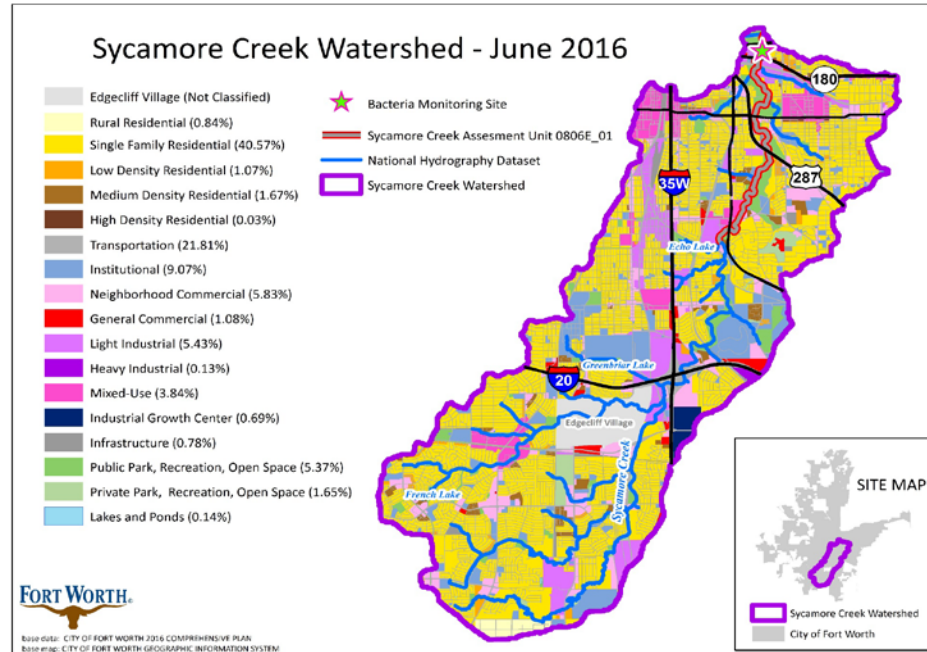


# Environmental Quality Division Mission

*Working together to protect Fort Worth's environment.*



Above-ground storage tanks enhance monitoring ability and reduce the chance of undiscovered leaks and soil contamination.



Watershed planning efforts to preserve and reverse impacts to water quality are needed to prevent 303(d) listings and TMDLs, such as the bacteria impairments for Sycamore Creek.

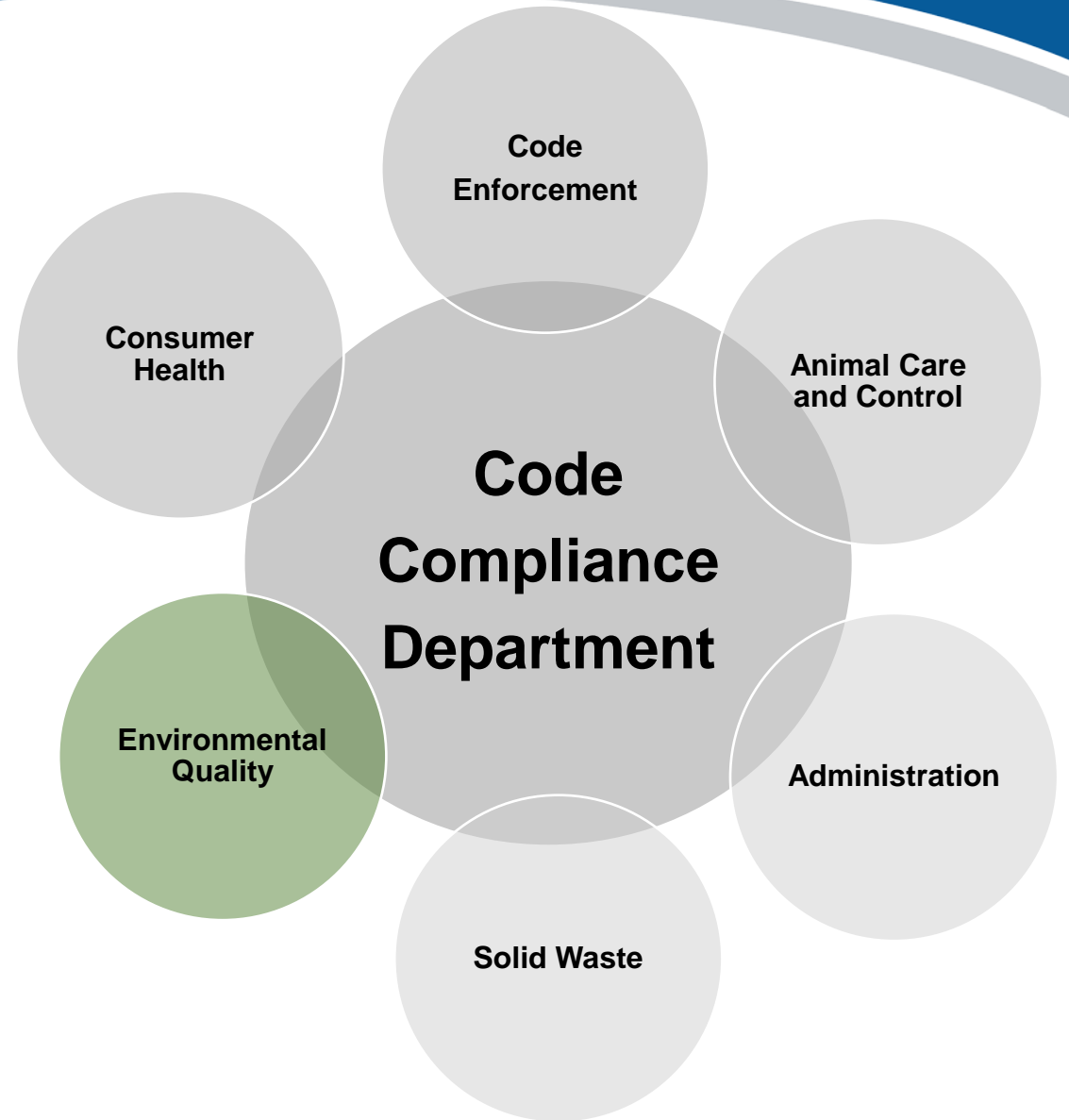


Former brownfields, such as Montgomery Plaza and LaGrave Field, exemplify the benefits of a robust brownfields program.

# Overview

Foster long-term sustainability and protection of human health, property, natural resources and the environment within the city of Fort Worth.

<http://fortworthtexas.gov/env/>



# What is an Environmental Master Plan?

A long-range strategy to protect human health and the environment in Fort Worth, while ensuring fiscal responsibility and outlining future projects and programs.

## **Problems:**

- Air Pollution
- Water Pollution
- Brownfields / Blight
- Litter / Aquatic Trash
- Hazardous Materials
- Land Pollution (e.g., contaminated soil, groundwater, or structures)

## **Solutions:**

- Clean-Up Projects
- Pollutant Source Controls
- Monitoring
- Enforcement



# Key Plan Objectives

1. Minimize Fort Worth's contribution to air pollution and carefully monitor key air contaminants to promote a safe city.
2. Improve surface water quality and minimize the impact of the urban environment on local bodies of water.
3. Create and maintain a safe, clean and attractive city through litter abatement programs, blight control and hazardous materials management.
4. Support economic development by reclaiming contaminated sites and ensuring previously-developed or polluted properties - commonly known as "brownfields" - are safe to be developed.
5. Assess program resources and needs to support resource acquisition and asset allocation.

# Environmental Master Plan Chapters

- Our Plan will have five (5) chapters:
  - Air Quality
  - Hazardous Waste Management
  - Land Reclamation & Brownfields
  - Litter Prevention & Abatement
  - Surface Water Quality



Stakeholder Engagement Meetings 



# Stakeholder Group



Sam  
Gunderson  
Mayor's office



Tressa  
Hilburn  
Council  
District 2



Loren  
Baxter  
Council  
District 3



Brian  
Black  
Council  
District 4



Danielle  
Tucker  
Council  
District 5



Sally  
Alsup  
Council  
District 6



Susan  
Urshel  
Council  
District 7



Steve  
Epstein  
Council  
District 8



John  
MacFarlane  
Council District 9

## Stakeholder Role

- Attendance: 2 – 2 hour stakeholder engagement meetings
- Participation: Provide feedback at meetings and build agreement with other stakeholders.
- Perspective: Your input will inform our program development planning as our division moves toward our achieving our mission.

# Today's Feedback Process



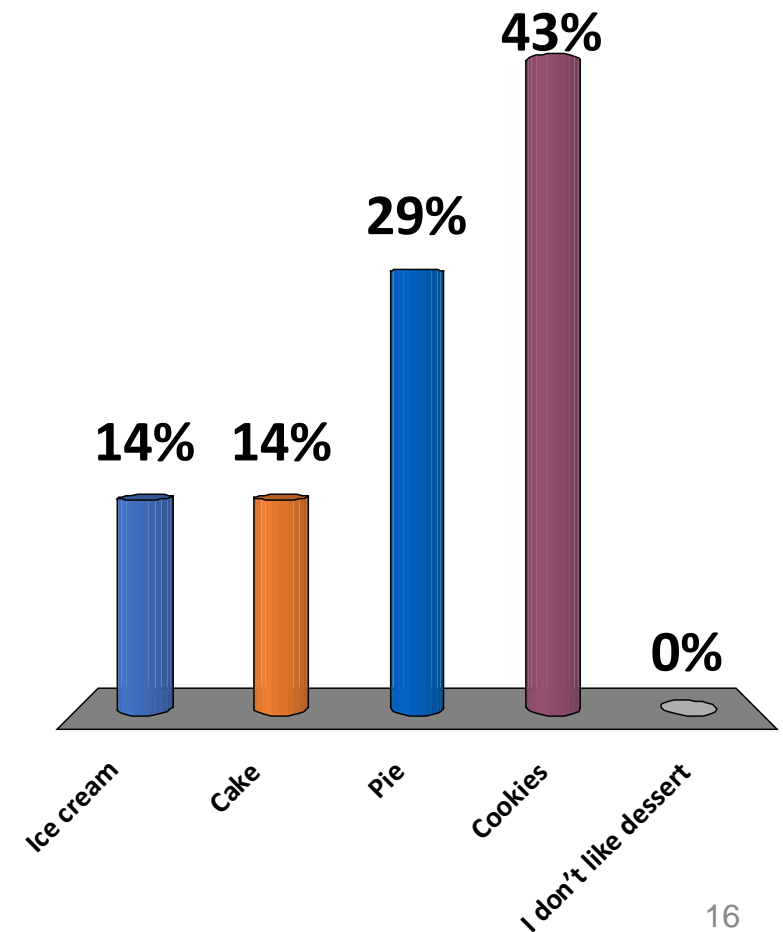


# Why keypad polling?

- Provides feedback from all individuals participating in the session
- Can reflect the discussion at the session
- Is anonymous
- Shows results immediately
- Allows more detailed analysis after the session

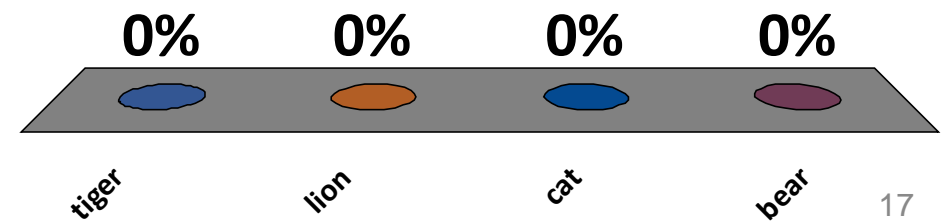
# What kind of dessert do you like best?

1. Ice cream
2. Cake
3. Pie
4. Cookies
5. I don't like dessert



puppy : dog :: kitten :

1. tiger
2. lion
3. cat
4. bear



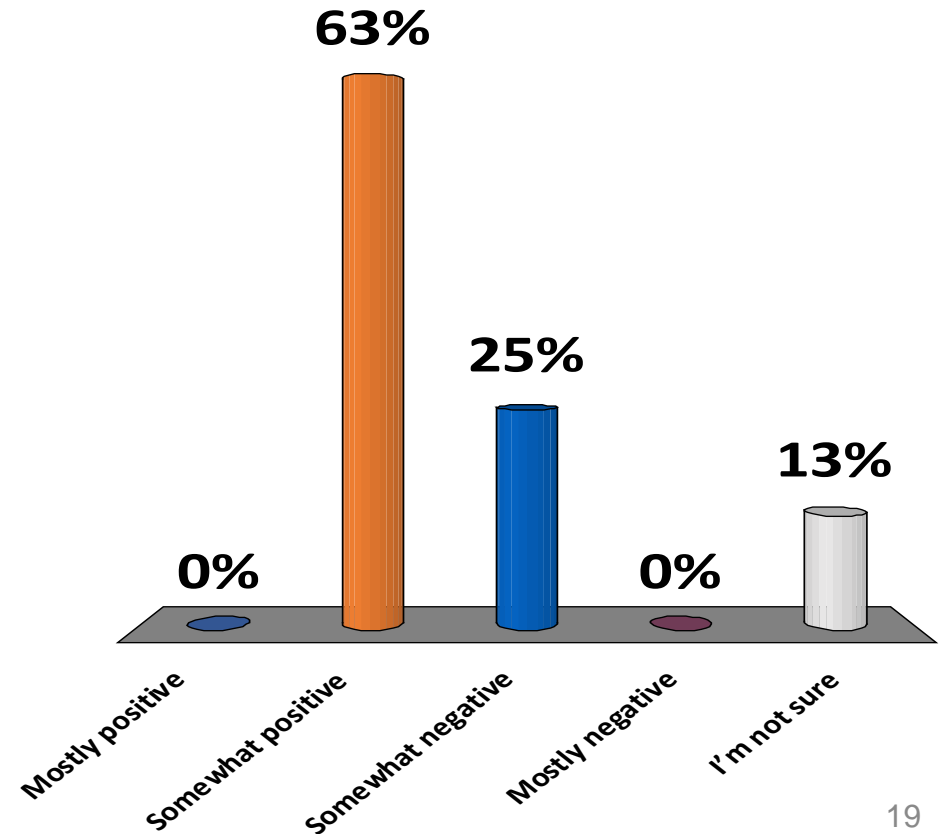


# Introductory Survey - Baseline

- We are going to ask you a series of twelve (12) questions that are also being presented to the City's residents.
- We will end our session tomorrow with the same twelve (12) question survey to see how your responses change based on the information provided.

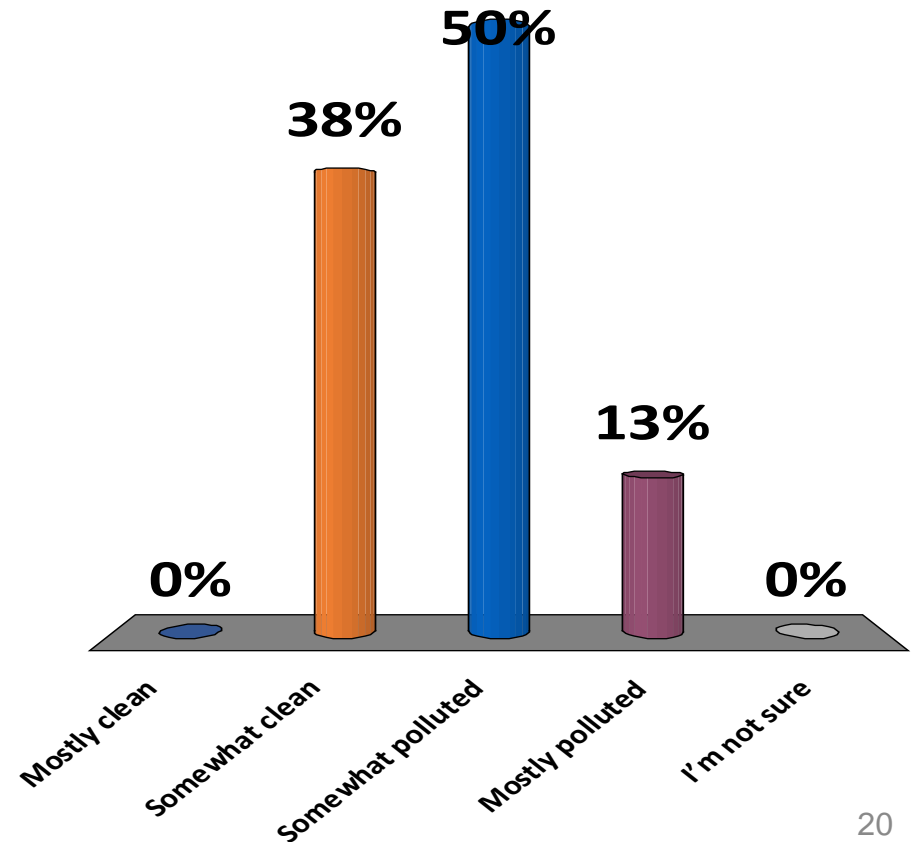
Overall, how do you feel about the quality of Fort Worth's environment, including air, land, local creeks, lakes, and the Trinity River?

1. Mostly positive
2. Somewhat positive
3. Somewhat negative
4. Mostly negative
5. I'm not sure



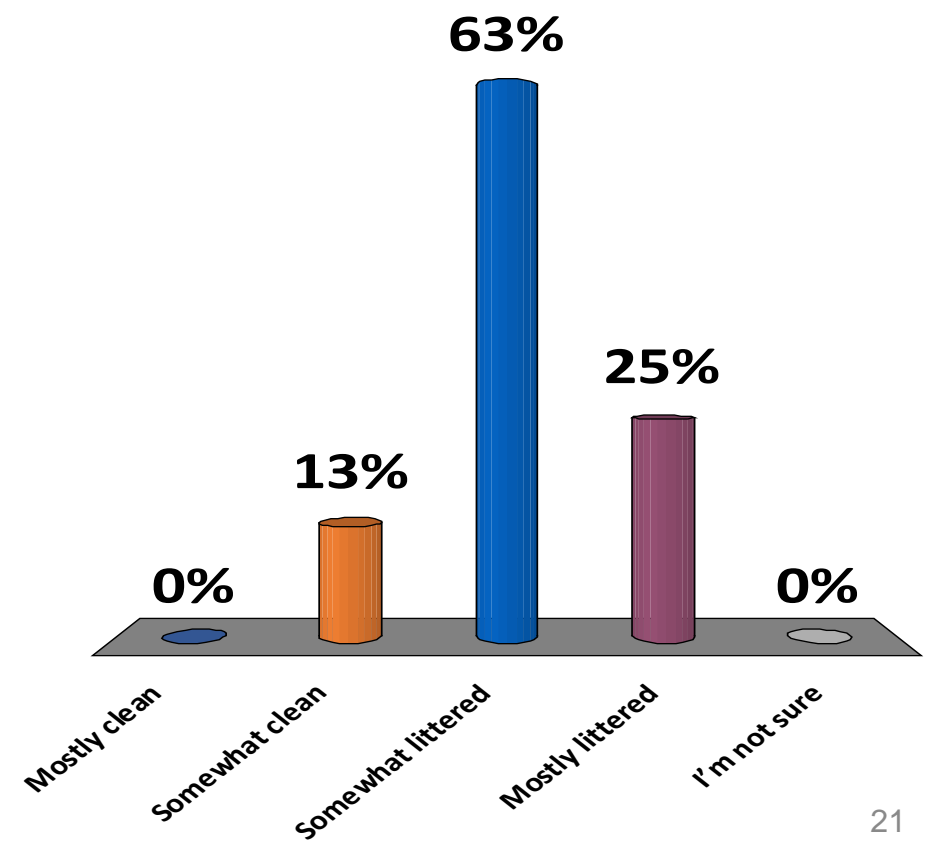
Do you feel that our lakes, rivers, and streams are clean and safe for recreation?

1. Mostly clean
2. Somewhat clean
3. Somewhat polluted
4. Mostly polluted
5. I'm not sure



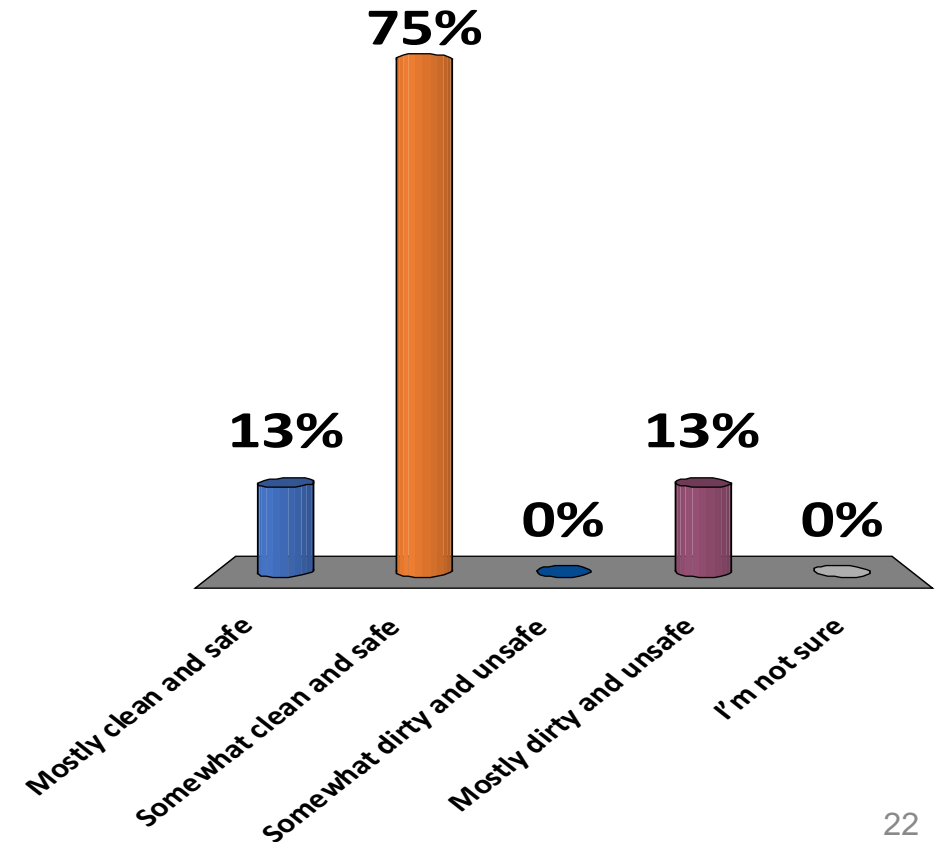
# In your opinion, how littered is Fort Worth?

- 1. Mostly clean
- 2. Somewhat clean
- 3. Somewhat littered
- 4. Mostly littered
- 5. I'm not sure



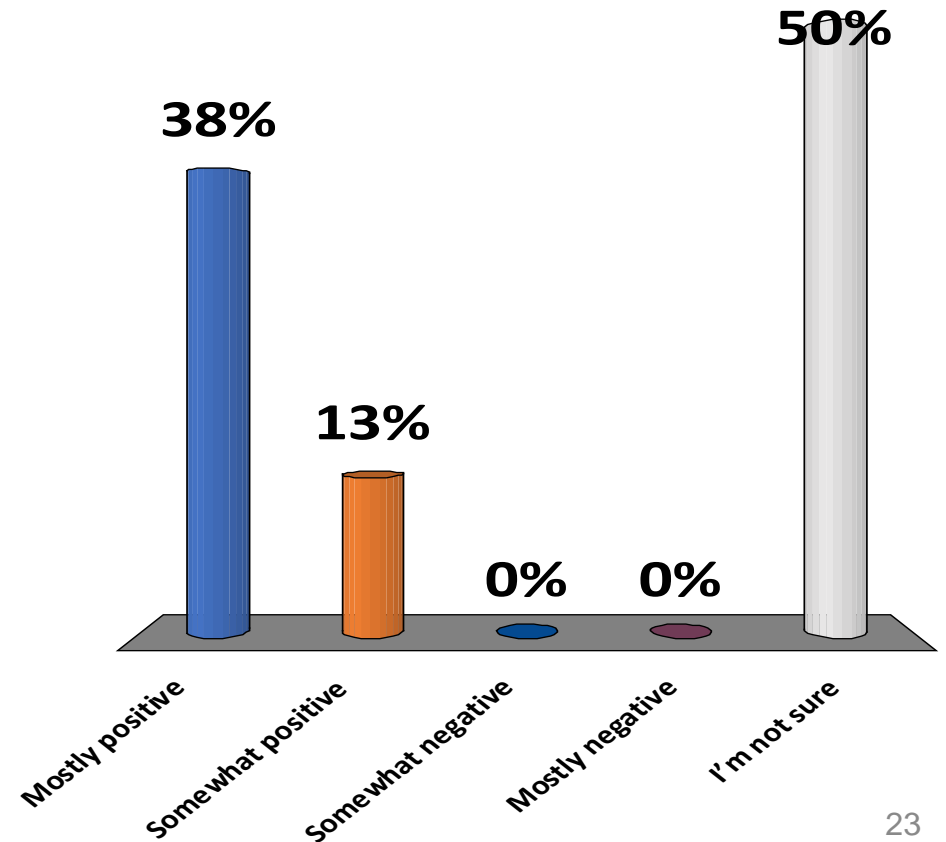
Do you feel our public buildings, green spaces, and parks are clean and safe for recreation?

1. Mostly clean and safe
2. Somewhat clean and safe
3. Somewhat dirty and unsafe
4. Mostly dirty and unsafe
5. I'm not sure



How do you feel about the City's Brownfields Program that takes lots polluted with chemicals and makes them safe for re-development?

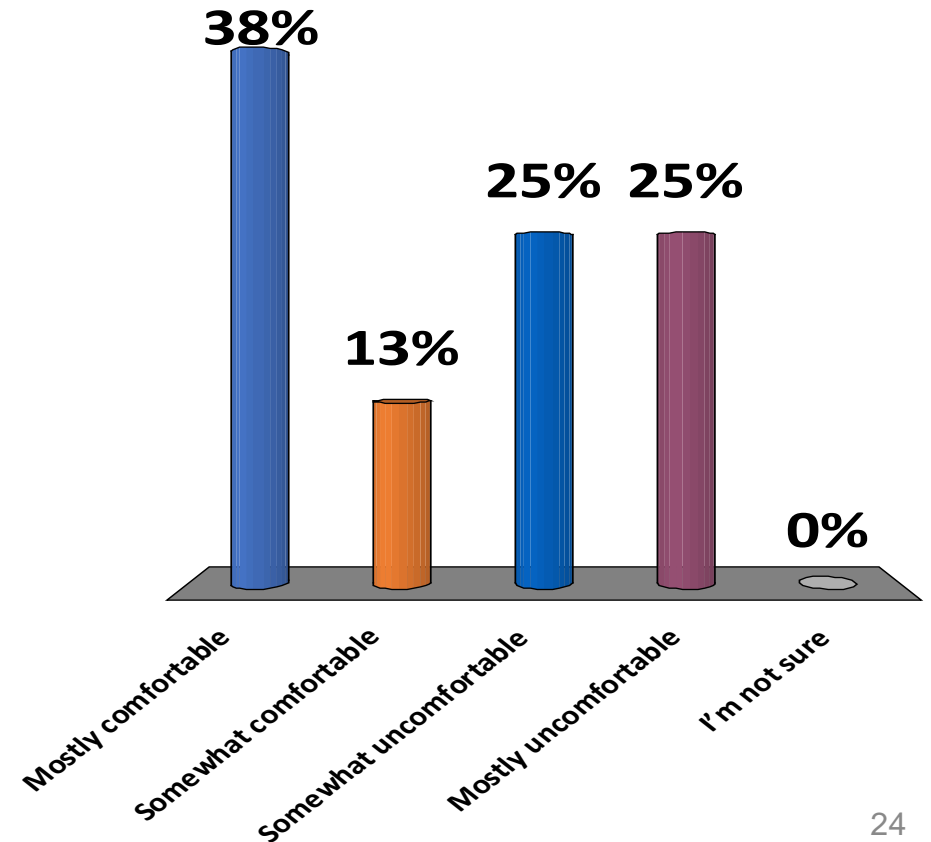
1. Mostly positive
2. Somewhat positive
3. Somewhat negative
4. Mostly negative
5. I'm not sure





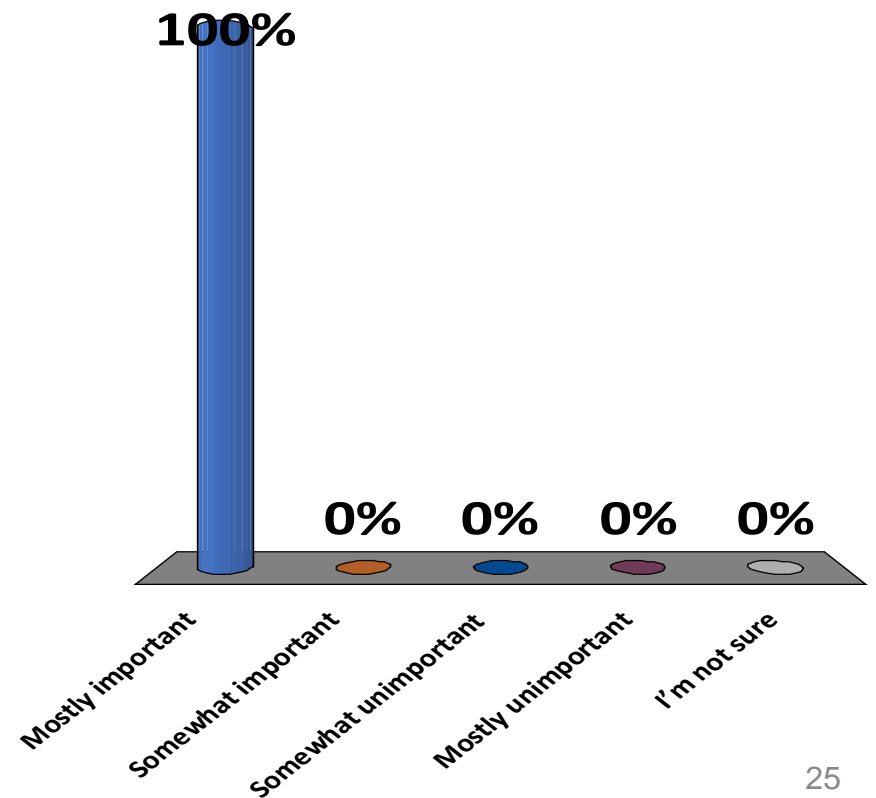
# Do you feel comfortable with the outdoor air you breathe?

1. Mostly comfortable
2. Somewhat comfortable
3. Somewhat uncomfortable
4. Mostly uncomfortable
5. I'm not sure



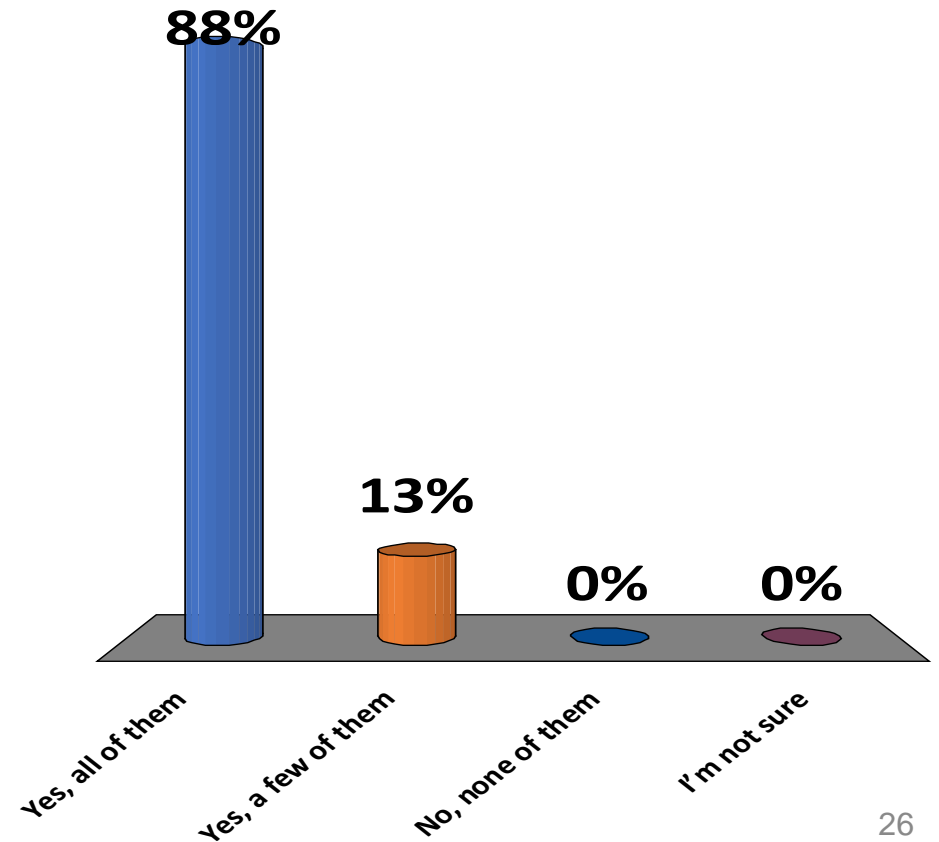
The City manages dangerous materials, like asbestos, from its own operations, as well as businesses and industry. How important is it to you that the City manages the disposal of these materials properly?

1. Mostly important
2. Somewhat important
3. Somewhat unimportant
4. Mostly unimportant
5. I'm not sure



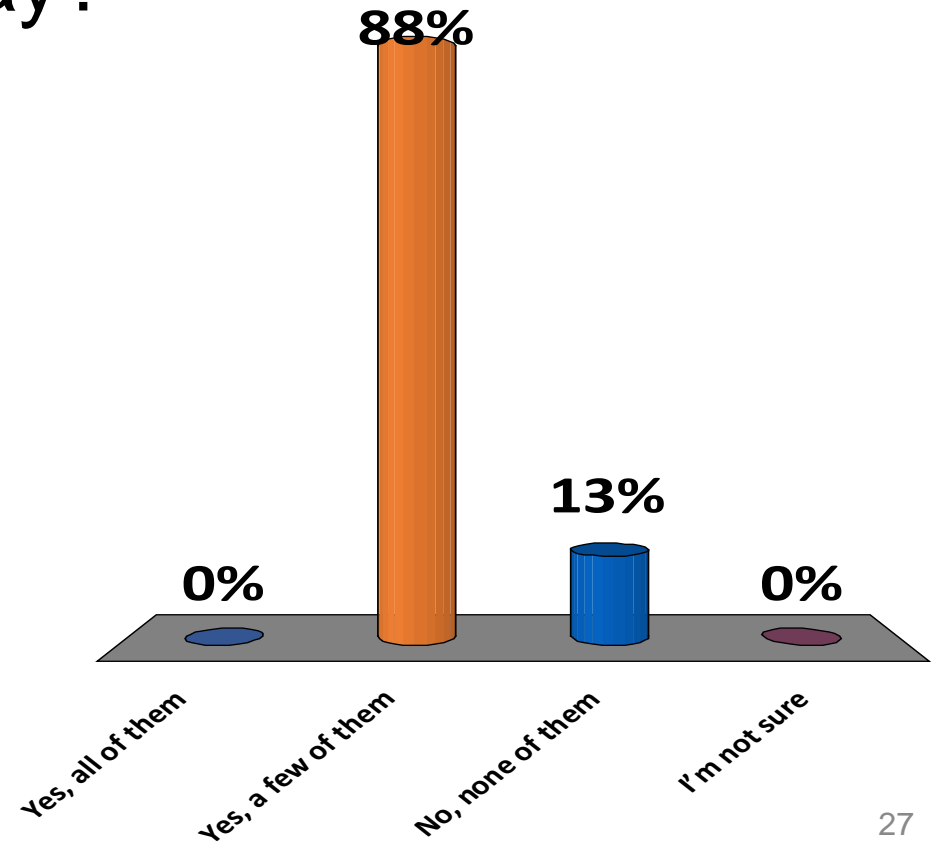
Are you aware of the following City-sponsored events: Cowtown Great American Cleanup, Neighborhood Litter Stop, Trinity Trash Bash, or Shred Day?

1. Yes, all of them
2. Yes, a few of them
3. No, none of them
4. I'm not sure



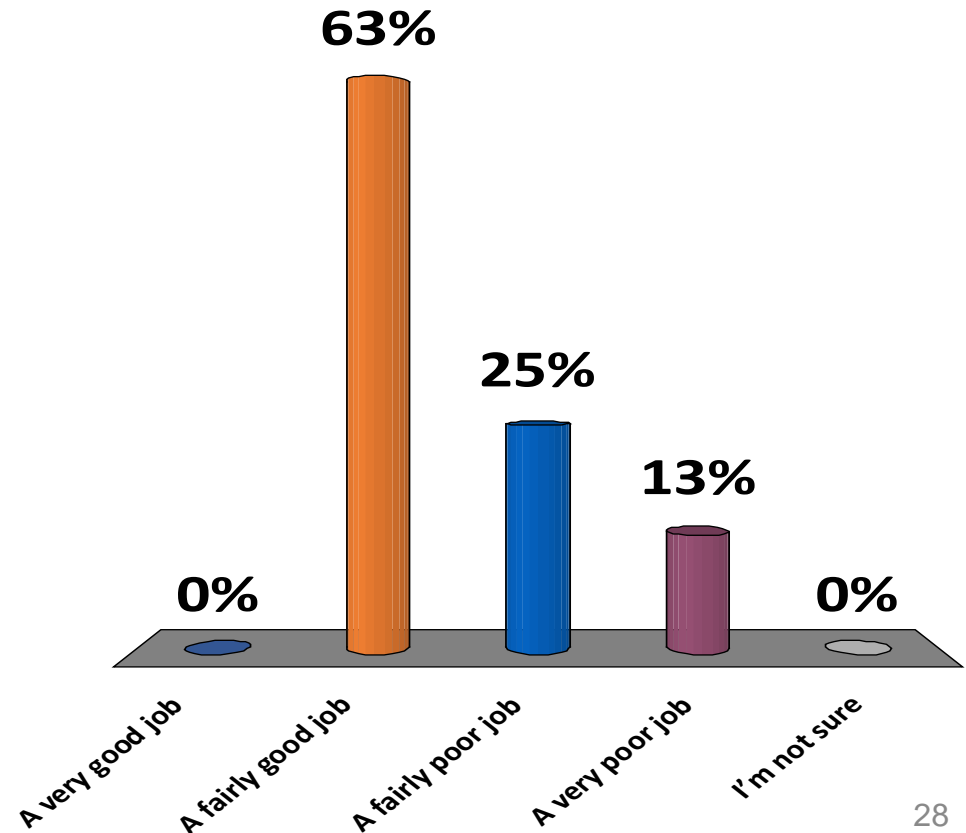
Have you participated in any of the following City-sponsored events: Cowtown Great American Cleanup, Neighborhood Litter Stop, Trinity Trash Bash, or Shred Day?

1. Yes, all of them
2. Yes, a few of them
3. No, none of them
4. I'm not sure



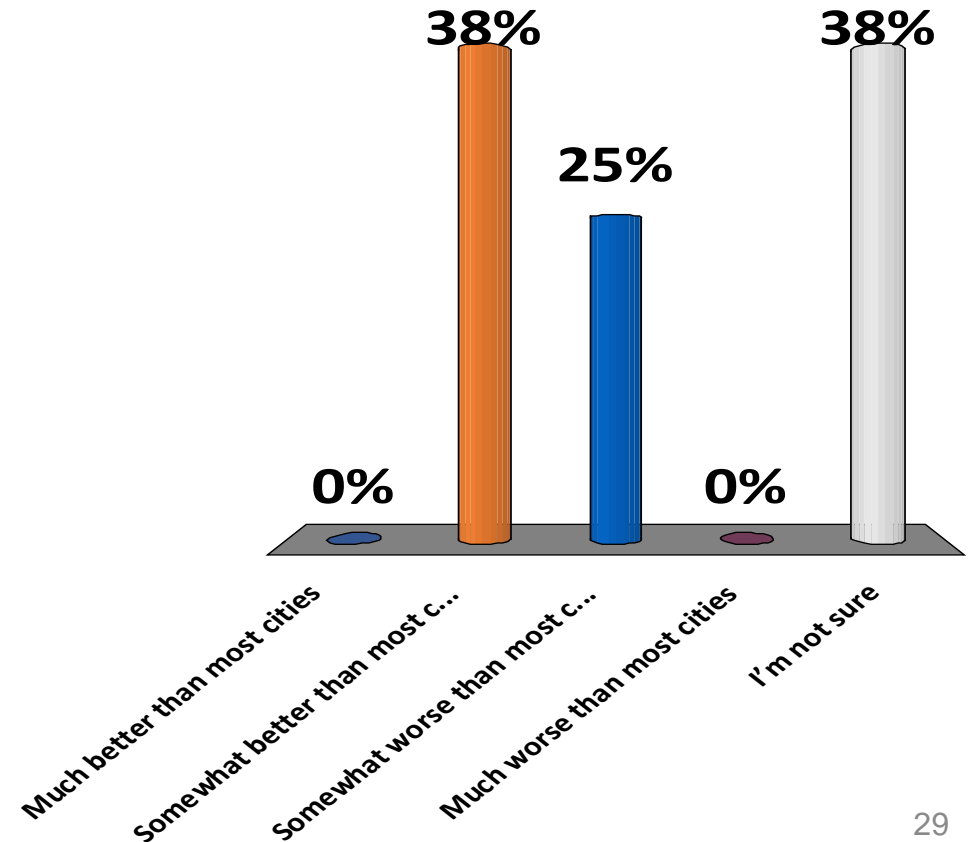
Overall, how is the City of Fort Worth doing in protecting the city's environmental resources and reducing pollution (e.g., litter, polluted sites, etc.)?

1. A very good job
2. A fairly good job
3. A fairly poor job
4. A very poor job
5. I'm not sure



# Overall, how do you think Fort Worth's environmental programs compare with other cities?

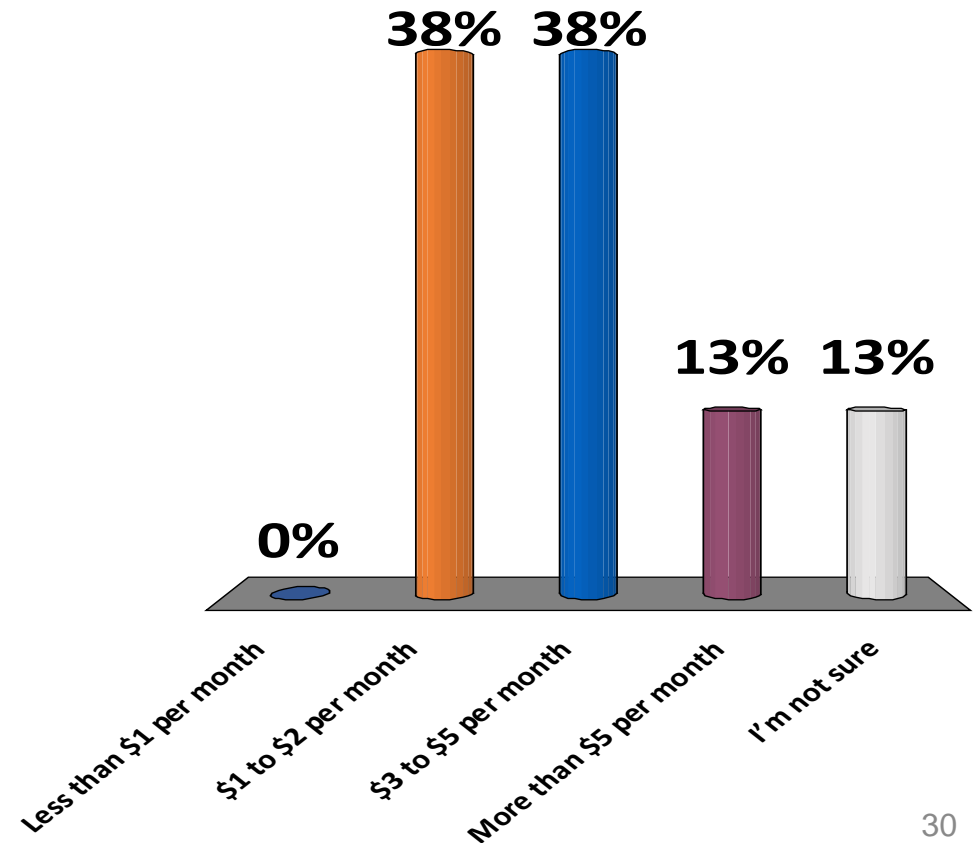
1. Much better than most cities
2. Somewhat better than most cities
3. Somewhat worse than most cities
4. Much worse than most cities
5. I'm not sure





How much would you be willing to pay to fund programs and services that protect Fort Worth's environmental resources and reduce pollution?

1. Less than \$1 per month
2. \$1 to \$2 per month
3. \$3 to \$5 per month
4. More than \$5 per month
5. I'm not sure



# Chapter 1: Air Quality Section



## Vision

- Create a cleaner, healthier, and a more livable City through the monitoring of air pollutants and enforcement of State and Federal Air Quality regulations.

## Mission

- Protect residents, workers, and visitors by monitoring local air conditions, ensuring regulatory compliance of local business and industry, and improve public health by minimizing exposure to air pollutants.

## Value

- Have fewer residents with health problems related to poor air quality, increase recreation revenue, and protect the environment for current and future residents.

# Current Air Quality Programs

- Ambient Air Monitoring
- BioWatch Monitoring Program
- Compliance Investigations

# Current Programs: Ambient Air Monitoring

## **Purpose:**

The CFW Ambient Air Monitoring Unit supports the state's air pollution monitoring and reporting of air pollutants, such as ozone.

## **Operations:**

- Provides the basis for air quality alerts, such as ozone alerts.
- Collaborative partnership and partially-funded by the state and federal government.
- Seven (7) state-owned air monitoring sites in or near Ft. Worth.
- Section staff operates and maintains monitoring equipment stations to collect and report pollution and meteorological data.

# Current Programs: BioWatch Monitoring Program

## **Purpose:**

- BioWatch is a federally-funded program that is executed by the City of Fort Worth under the direction of the Department of Homeland Security (DHS) and the state.

## **Operations:**

- This program is part of a nationwide initiative to protect residents from bio-terrorism threats.
- Section staff operates and maintains monitoring equipment stations within the City of Fort Worth.



# Current Programs: Compliance Investigations

## **Purpose:**

- This program protects air quality by ensuring facilities comply with their state air permits.

## **Operations:**

- Staff reports to the state and enforces permit requirements
- Section staff:
  - Perform industrial inspections on regulated facilities
  - Off-site air emissions surveillance and air permit reviews
  - Offer technical support to regulated facilities and permit applicants
  - Address air complaints from residents

# Program Development: Building for the Future

The Air Quality Section is considering expanding existing programs, including:

- Evaluating the expansion of ambient air monitoring network.
- Increased air quality investigations as population and development increases

New programs are also being considered, such as:

- Mobile Air Monitoring
- Community Outreach
- Public Education
- Air Quality Internal Compliance
- Ozone Pollution Mitigation Measures



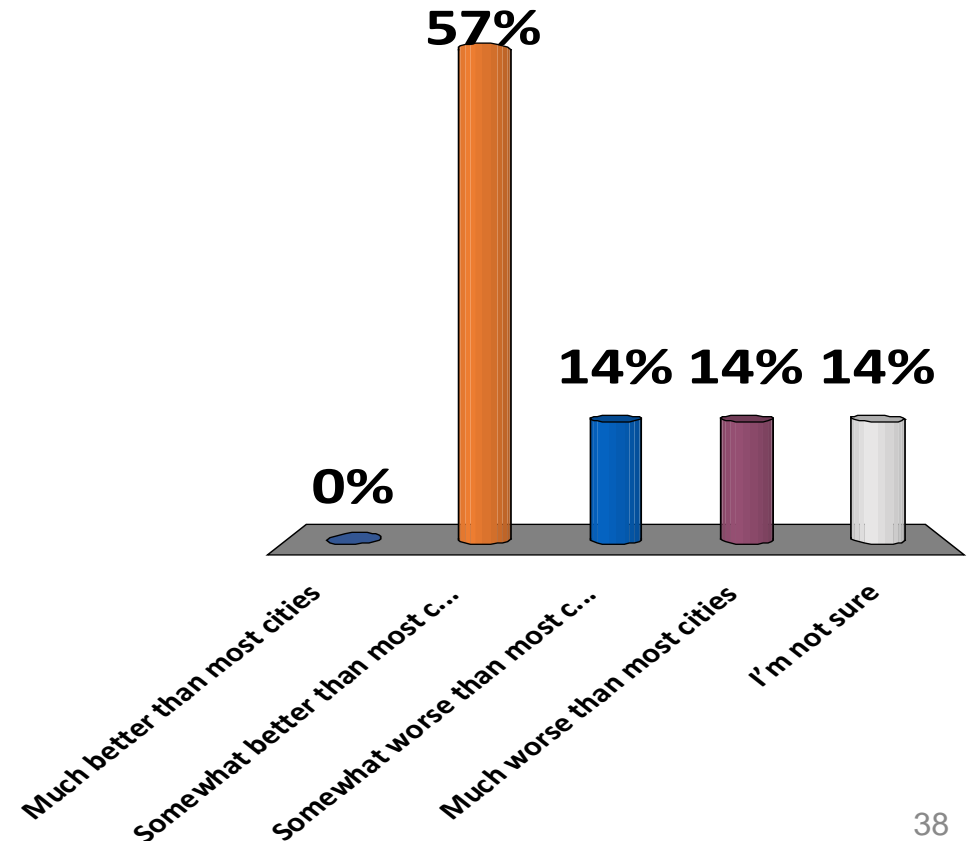
Source: State of Delaware

Mobile Air Monitoring may be one option to fight air pollution and to analyze impacts on citizens or to enforce compliance.

# Air Quality

Overall, how do you think Fort Worth's air quality compares with other cities?

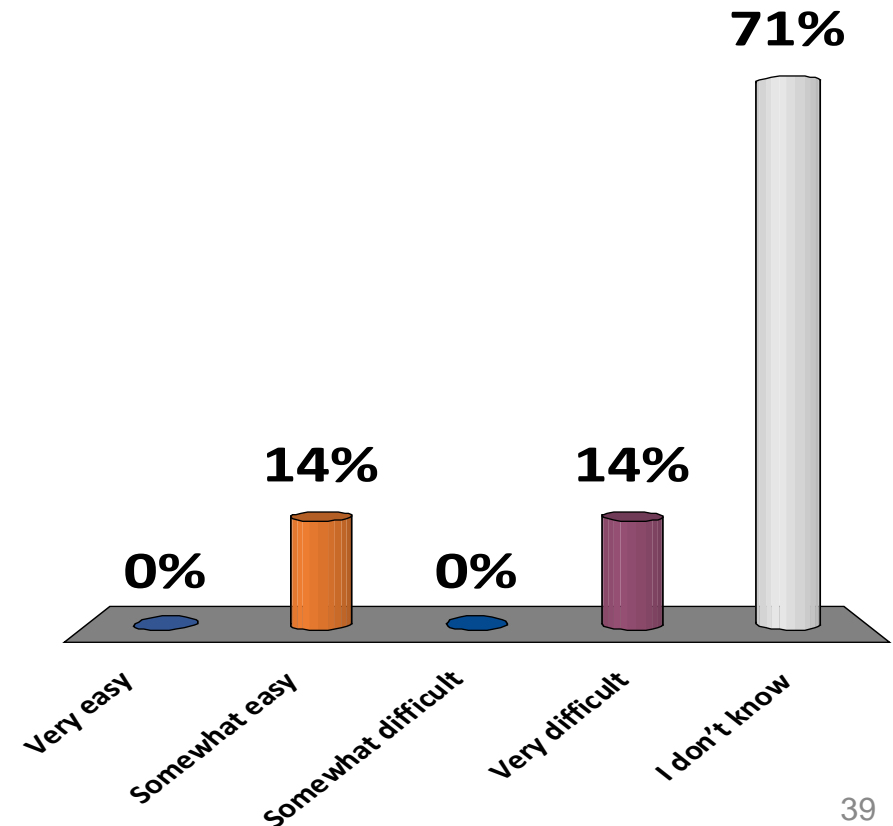
1. Much better than most cities
2. Somewhat better than most cities
3. Somewhat worse than most cities
4. Much worse than most cities
5. I'm not sure



# Air Quality

How easy is it to report an air quality complaint?

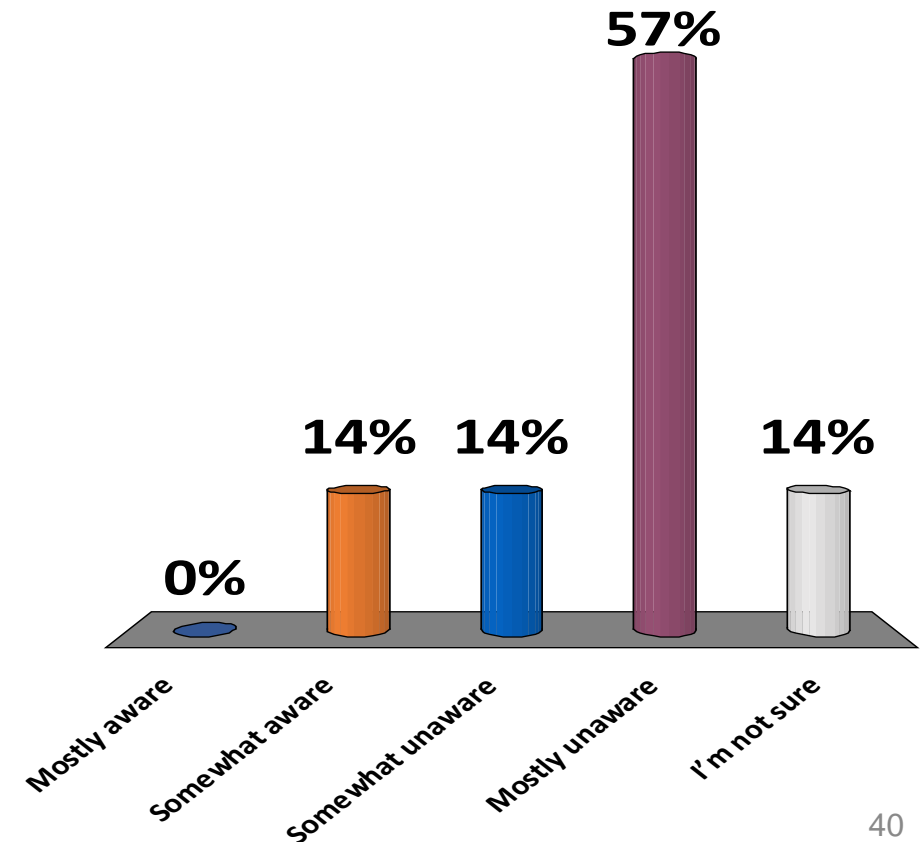
1. Very easy
2. Somewhat easy
3. Somewhat difficult
4. Very difficult
5. I don't know



# Air Quality

Are Fort Worth residents aware of the City's air quality programs?

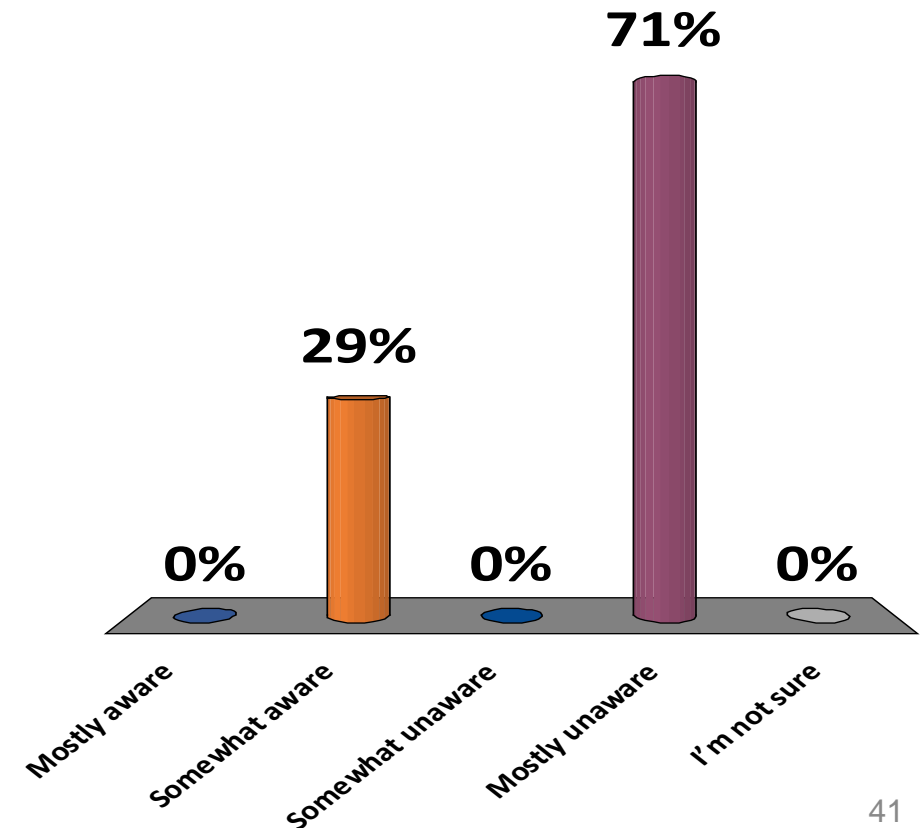
1. Mostly aware
2. Somewhat aware
3. Somewhat unaware
4. Mostly unaware
5. I'm not sure



# Air Quality

Are Fort Worth residents aware of the option to “Request a Speaker” for neighborhood meetings or community events to discuss air quality?

1. Mostly aware
2. Somewhat aware
3. Somewhat unaware
4. Mostly unaware
5. I'm not sure



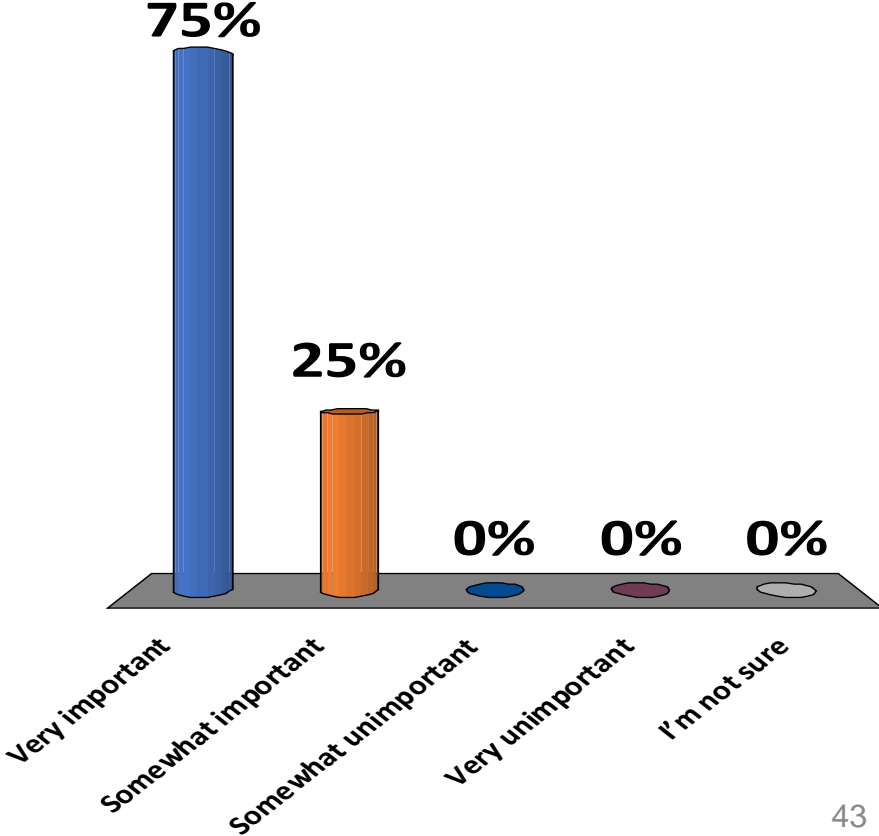


How important are these programs and activities to good air quality in Fort Worth?

# Air Quality

Expanding the existing ambient air monitoring system as the city of Fort Worth's population and land area increases.

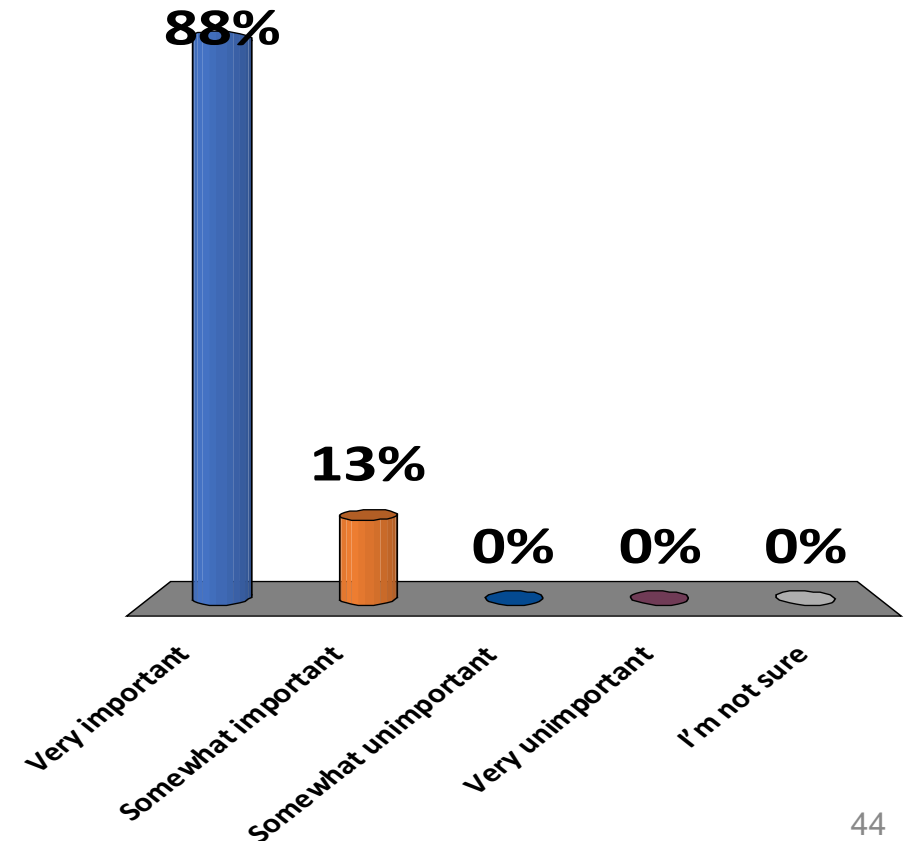
- 1. Very important
- 2. Somewhat important
- 3. Somewhat unimportant
- 4. Very unimportant
- 5. I'm not sure



# Air Quality

Outreach to schools and colleges to increase awareness of the importance of air quality and strategies to reduce impacts.

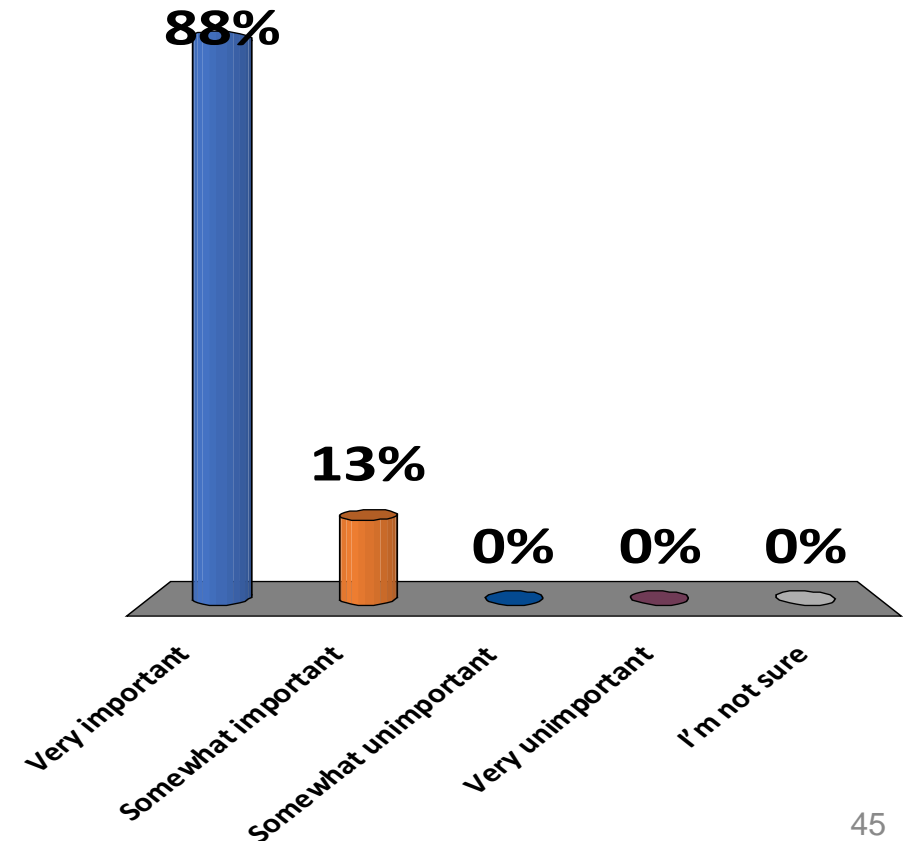
1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality

Outreach to local commercial businesses and industries to increase awareness of the importance of air quality and strategies to reduce impacts.

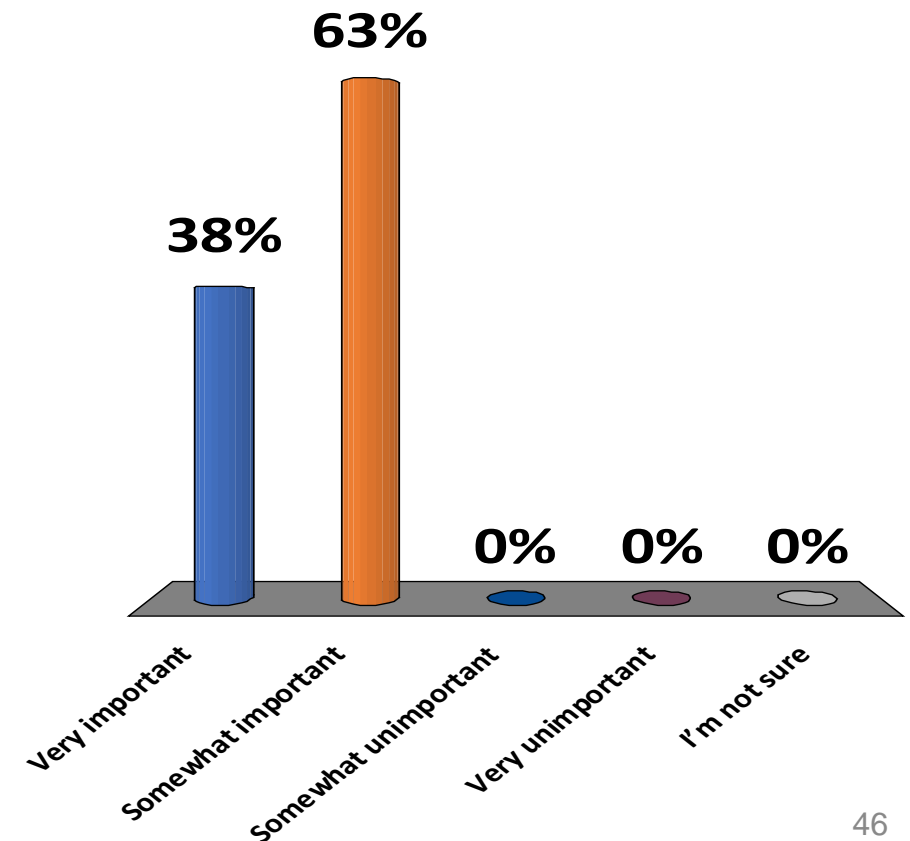
1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality

Using technology, such as a smart phone application, to provide air quality information to residents.

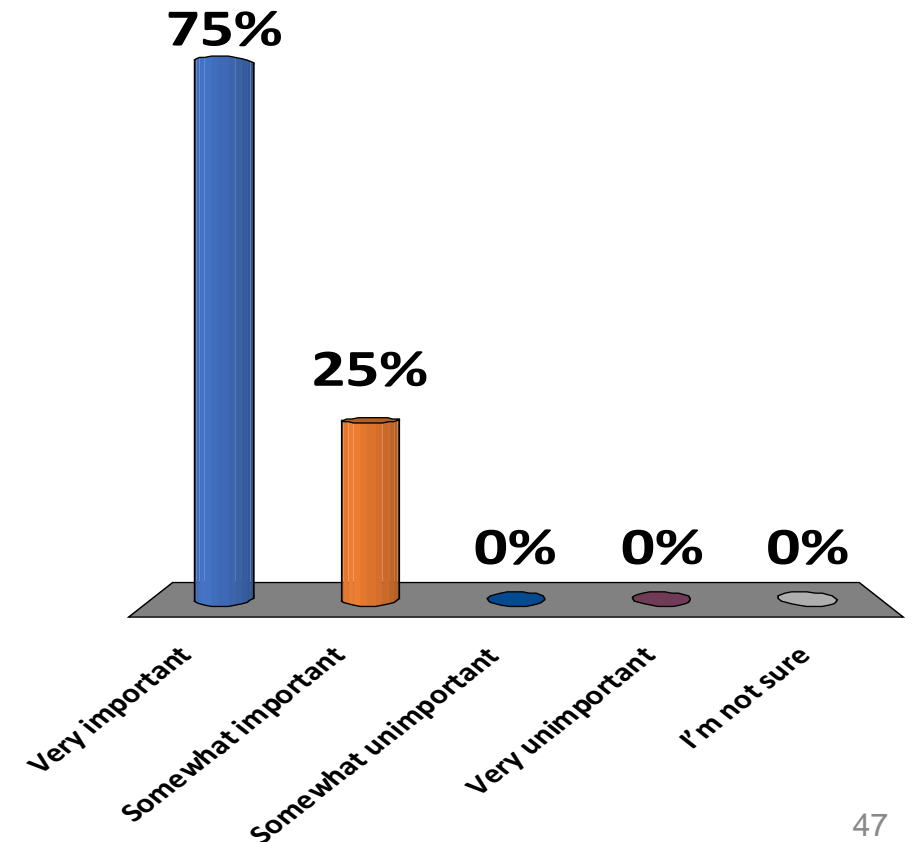
1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality

Having the City let the public know the outcome of an air quality complaint.

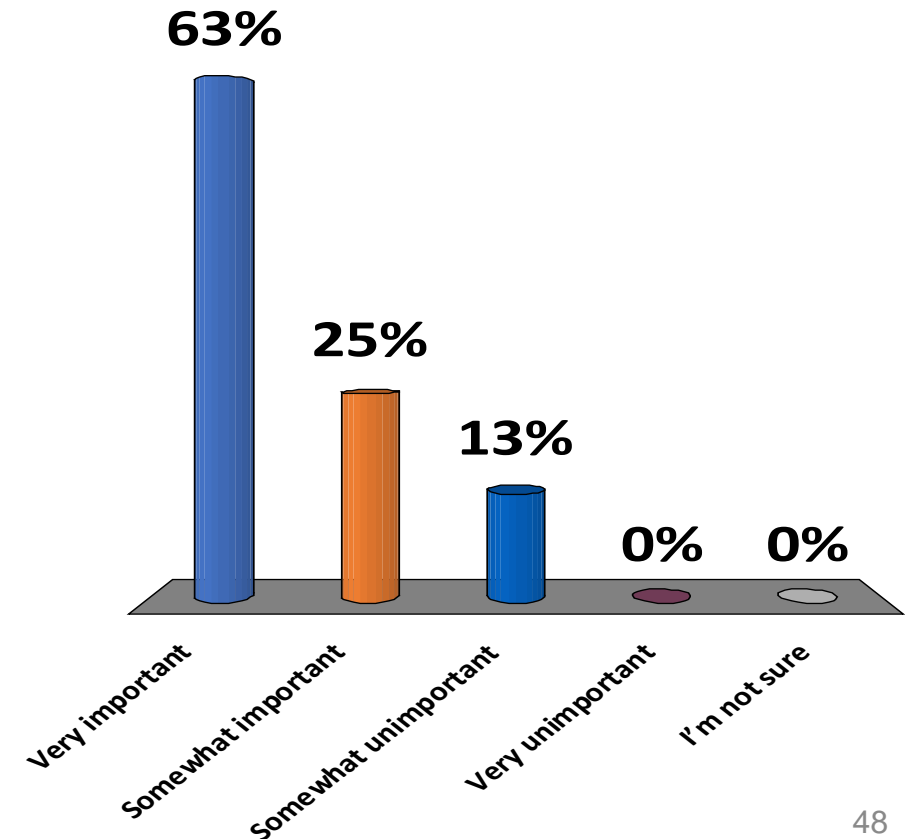
1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality

Using mobile sampling capabilities to monitor air quality.

1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure

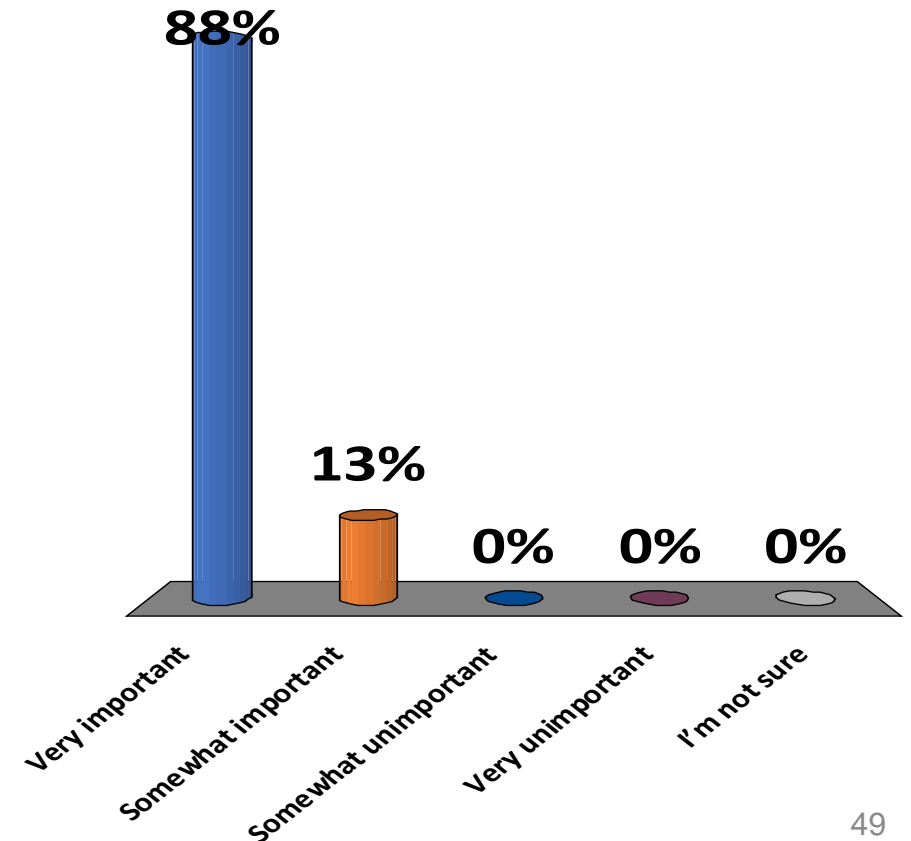




# Air Quality

Requiring buildings to incorporate technologies that increase energy efficiency and reduce air pollution.

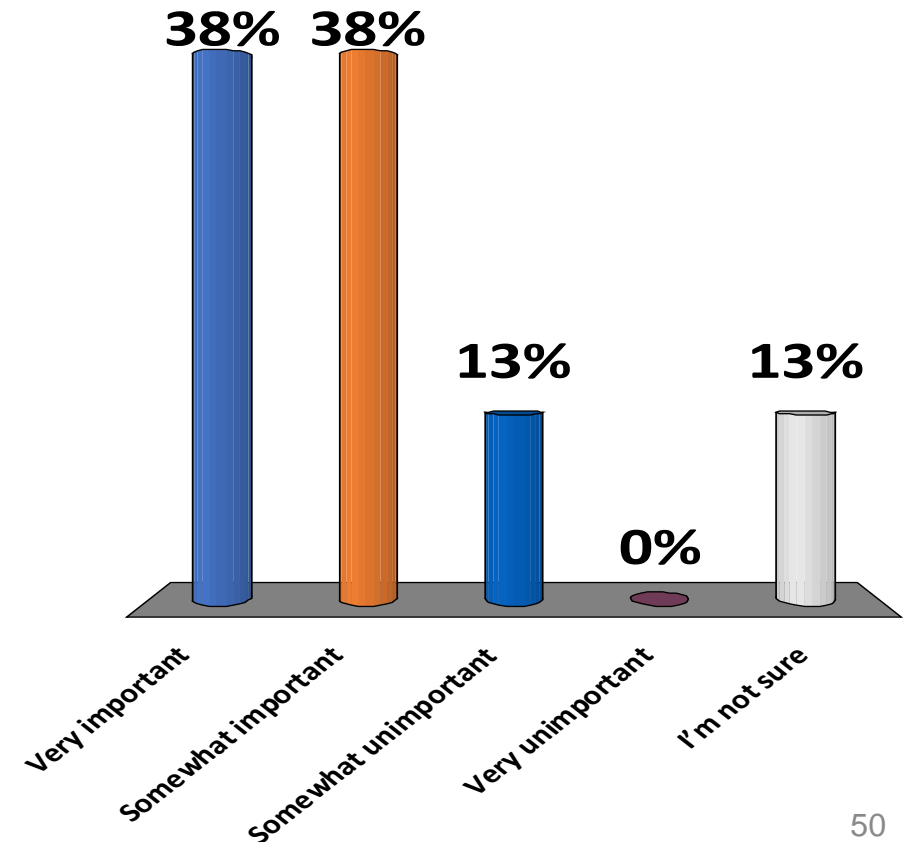
1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality

Providing incentive programs to reward residents who take action to reduce air pollution.

1. Very important
2. Somewhat important
3. Somewhat unimportant
4. Very unimportant
5. I'm not sure



# Air Quality Program Development: General Input

What types of programs or projects would you like to see the City implement ?

# Chapter 2: Hazardous Materials Management



# Hazardous Materials Management

## Vision

- The City of Fort Worth envisions a cleaner, safer, and more livable city through proper management of hazardous materials.

## Mission

- To provide comprehensive management of hazardous materials in the city of Fort Worth.

## Value

- The proper handling and disposal of hazardous materials; protecting the environment and the safety of the City.
- Ensures compliance with state and federal laws.

# Current Hazardous Materials Management Programs

- Municipal-Generated Hazardous Waste Management
- Petroleum Storage Tank Management
- Municipal Facility Hazardous Materials Management
- Tier II Reporting Program – Community Right-To-Know
- Household Hazardous Management
- Spill Response

# Current Programs: Municipal-Generated Hazardous Waste Management

## Purpose:

To provide comprehensive regulatory waste management strategies for municipal facility-generated waste.

## Operations:

- Provides management of hazardous waste streams, biological waste streams, and special waste streams generated by City-owned facilities.
- Ensures proper storage, handling, safety procedures, disposal, and waste tracking services to City departments.



# Current Programs: Petroleum Storage Tank Management

## Purpose:

Ensure regulatory compliance of City-owned petroleum storage tanks.

## Operations:

- Coordinate with the City's Fleet Management for petroleum storage tank operations, which include both underground storage tanks and above-ground Storage Tanks.
- These tanks require annual registrations, monthly maintenance, and inspections.

Above-ground storage tanks enhance monitoring ability and reduce the chance of undiscovered leaks and soil contamination.





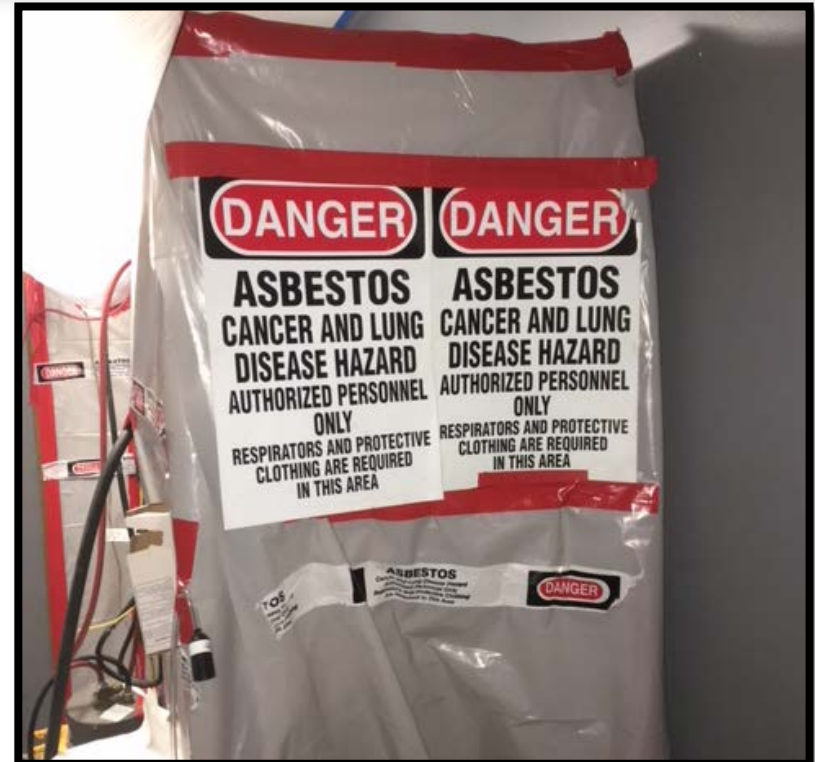
# Current Programs: Municipal Facility Hazardous Materials Management

## **Purpose:**

To provide comprehensive management activities for hazardous materials in City-owned buildings.

## **Operations:**

- Provides management of programs including Asbestos-Containing Materials Management, Mold Management, Indoor Air Hazards Management, and Lead Management initiatives.



## Current Programs: Tier II Reporting Program – Community Right-To-Know

### **Purpose:**

To provide comprehensive records of applicable Tier II reportable chemicals used and housed at City facilities.

### **Operations:**

- Provides expertise and coordination in compiling lists of hazardous chemicals that are stored at different City facilities.
- Chemical inventory lists are used for tracking the type and amount of hazardous chemicals stored at each facility.



# Current Programs: Household Hazardous Management

## Purpose:

To provide household hazardous waste disposal services to our residents, and ensure that it is managed properly.

## Operations:

- Collect and dispose of household hazardous waste according to regulations through the following:
  - CFW Environmental Collection Center (ECC)
  - “Crud Cruiser” Mobile Collection Events
  - Four (4) Drop-off Stations



## Current Programs: Spill Response

### **Purpose:**

To provide comprehensive spill support, spill evaluation and clean-up response 24/7, 365 days a year.

### **Operations:**

- Provides on-call support, management and/or clean-up for reported spills.
- Ensures proper agency notifications for spills and clean-up.

This program works to provide a clean, safe community for residents and protects surface waters from potentially hazardous runoff.



# Program Development: Building for the Future

The Hazardous Materials Management Section is considering the expansion of existing programs and implementing new programs, including:

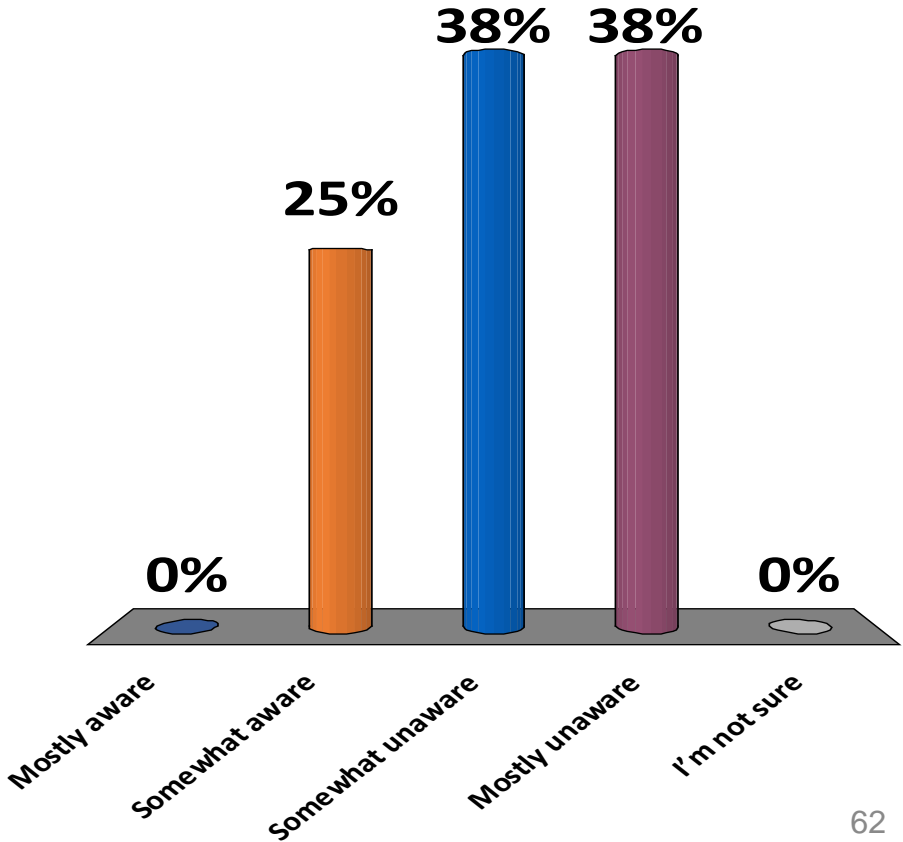
- Develop procedures to ensure regulatory and permitting compliance.
- Implementing facility audits that are tied to Tier II reporting.
- Streamline the City-owned petroleum storage tank compliance.
- Staff training to enhance the Comprehensive Asbestos Evaluation Program.
- Expand the Household Hazardous Waste Management Program



# Hazardous Materials Management

Are Fort Worth residents aware of the City's hazardous materials management programs and projects?

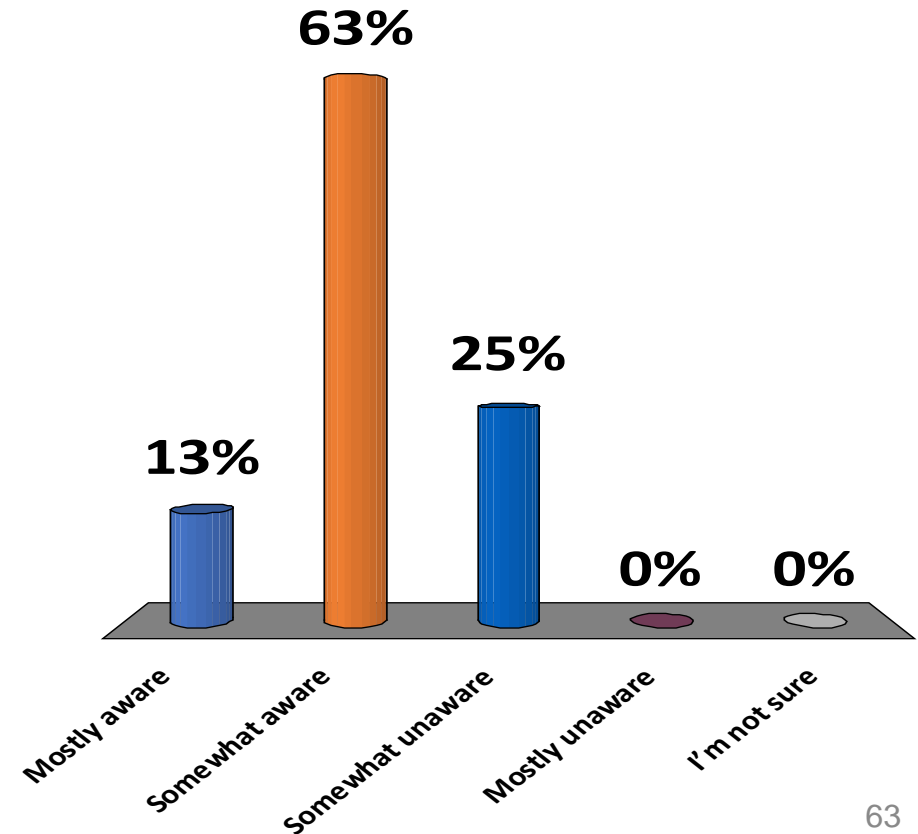
- 1. Mostly aware
- 2. Somewhat aware
- 3. Somewhat unaware
- 4. Mostly unaware
- 5. I'm not sure



# Hazardous Materials Management

Are Fort Worth residents aware that they can dispose of household chemicals, brush, and/or bulk items at the Environmental Collection Center and drop-off stations?

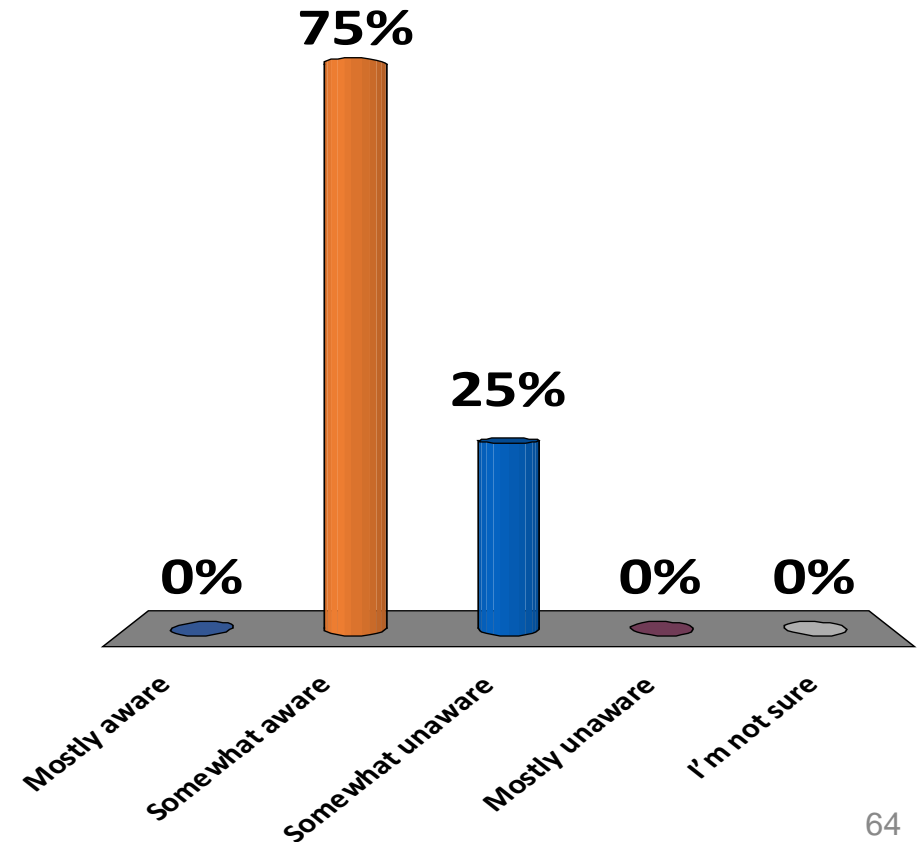
1. Mostly aware
2. Somewhat aware
3. Somewhat unaware
4. Mostly unaware
5. I'm not sure



# Hazardous Materials Management

Are Fort Worth residents aware that they can dispose of household chemicals at “Crud Cruiser” mobile collection events?

- 1. Mostly aware
- 2. Somewhat aware
- 3. Somewhat unaware
- 4. Mostly unaware
- 5. I'm not sure





# Hazardous Materials Management Program Development: General Input

- What types of programs or projects would you like to see the City implement?
- Are there any other household hazardous materials / waste that you would like the City to take for disposal?

# Chapter 3: Land Reclamation



# Land Reclamation & Brownfields

## Vision

- Provide a cleaner, safer, and more livable City through redevelopment of impaired property and management of environmental concerns throughout the City.

## Mission

- Evaluate existing programs and identify opportunities to expand and improve efforts, identify potential new programs, and provide a framework for implementation.

## Value

- Facilitating the cleanup and development of polluted property to improve the economic value of land, increase surrounding property values, reduce blighted areas, improve community pride, and reduce illegal dumping and other crime.

# Current Land Reclamation & Brownfield Programs

- Environmental Site Assessment
- Municipal Setting Designation
- Soil & Groundwater Site Remediation
- Substandard Structure Demolition
- Environmental Approvals
- Brownfields Redevelopment

# Current Programs: Environmental Site Assessment

## **Purpose:**

Perform environmental site assessments for properties that the City may consider purchasing or that the City is considering leasing to an external party.

## **Operations:**

- Conducts Environmental Site Assessments, which evaluate possible pollution on current and potential City properties.
- Conducts an average of fifty (50) site assessments on City properties annually and supports nearly all City Departments.
- Facilitated the transfer, development or redevelopment of thousands of properties over the past 20 years.

# Current Programs: Municipal Setting Designation

## Purpose:

Provide comprehensive support to applicants by assisting with all aspects of the Municipal Setting Designation (MSD) process to condemn polluted groundwater on site to ensure that people do not drink it.

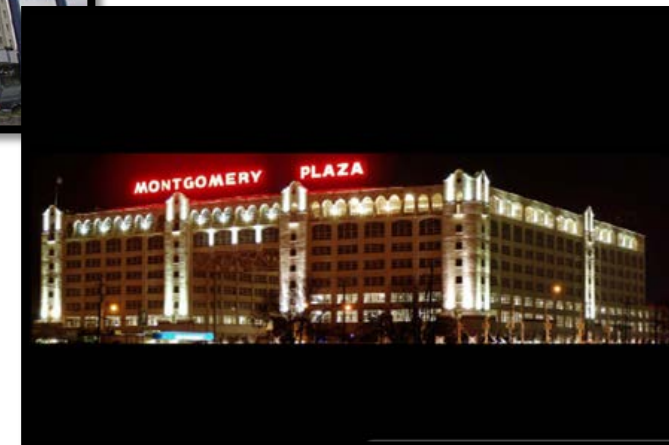
## Operations:

- Provided technical assistance to over 25 MSD applicants since 2008 for redevelopment.
- Example project is Fort Worth's first approved MSD, the Montgomery Ward Plaza.



← Before

After →



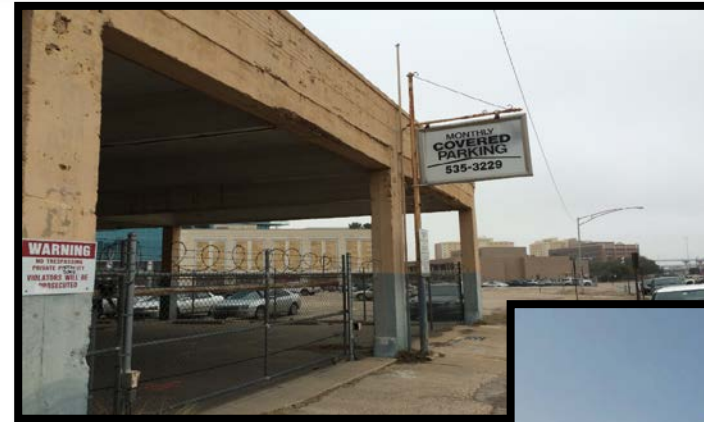
# Current Programs: Soil & Groundwater Site Remediation

## Purpose:

Provide cleanup of soil and groundwater pollution at City properties.

## Operations:

- Evaluate soil and groundwater pollution.
- Assess and develop environmental engineering plans for cleanup.
- Solicit bids and ensure capital project completion.
- Completed over 200 cleanups in the past 20 years.



← Before

After →





# Current Programs: Substandard Structure Demolition

## Purpose:

Demolish and remove substandard structures located within the City limits that may contain environmental hazards.

## Operations:

- Maintain prequalified demolition contractors.
- Ensure the proper demolition and control of hazards on site.
- Increases property value through redevelopment, reduces blight, illegal dumping and other crime, and improves community pride.





# Current Programs: Environmental Approvals

## Purpose:

Provides services to other City departments, businesses and the public by reviewing and accepting proposals for activities on City property and public rights-of-way.

## Operations:

- Review applications for requests to perform construction activities on rights-of-way to protect the environment.
- Program staff have reviewed and authorized hundreds of easement vacations and other environmental permits since 2000.



# Program Development: Building for the Future

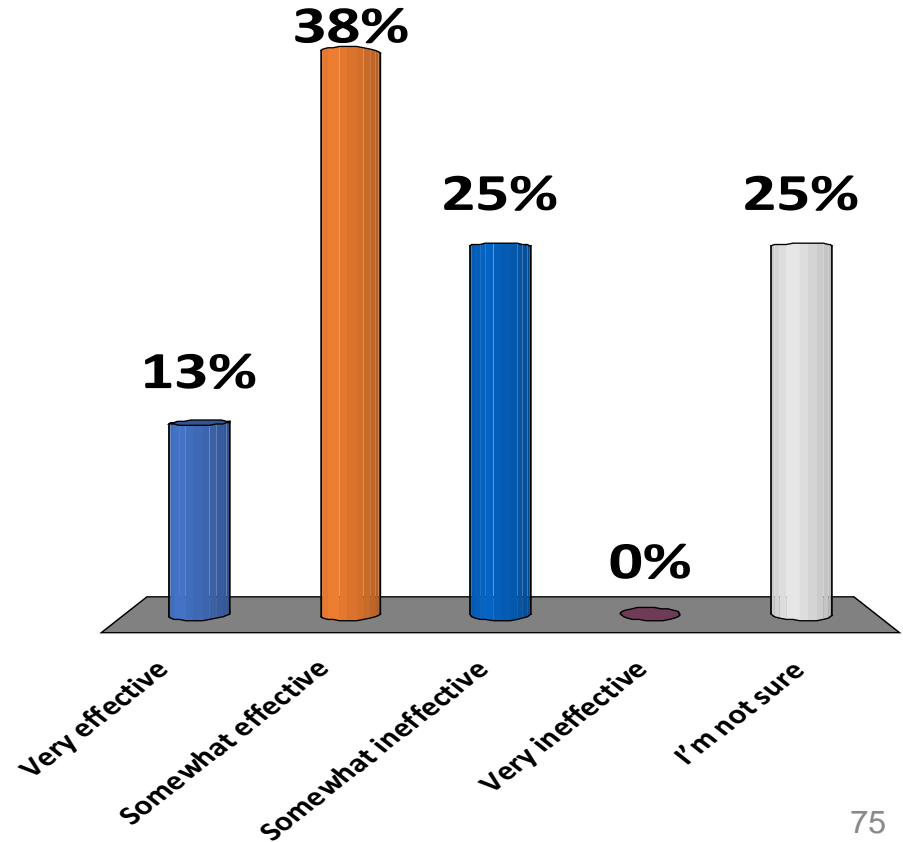
The Land Reclamation & Brownfield Section is considering the expansion of existing programs and implementing new programs, including:

- Develop a soil management plan
- Call Before You Drill / Build Program
- Monitor Well Permitting Application
- Providing Tiered Site Assessments
- Urban Water Body Sediment Assessment
- Develop a comprehensive data management system
- Provide Municipal Setting Designation Community Education
- Strategic Environmental Hazard Removal Task Force

# Land Reclamation

How effective is the City in identifying and removing abandoned, vacant, and/or dangerous structures?

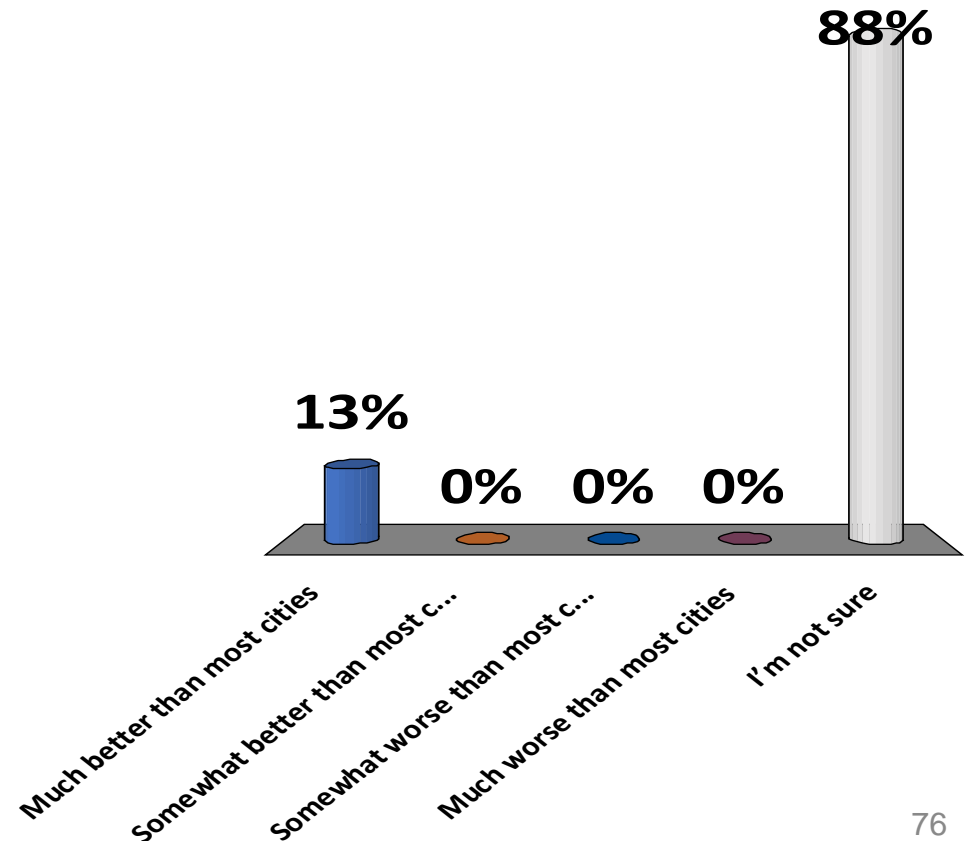
- 1. Very effective
- 2. Somewhat effective
- 3. Somewhat ineffective
- 4. Very ineffective
- 5. I'm not sure



# Land Reclamation

Overall, how do you think Fort Worth's land reclamation programs compare with other cities?

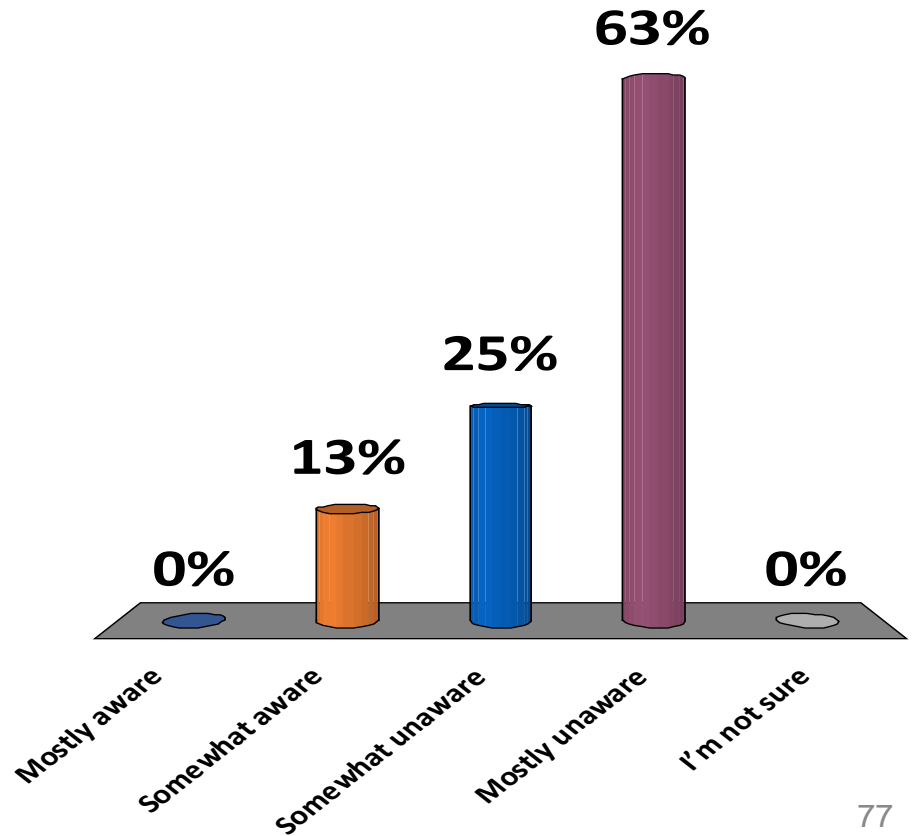
1. Much better than most cities
2. Somewhat better than most cities
3. Somewhat worse than most cities
4. Much worse than most cities
5. I'm not sure



# Land Reclamation

Are Fort Worth residents aware of the City's Land Reclamation programs and projects?

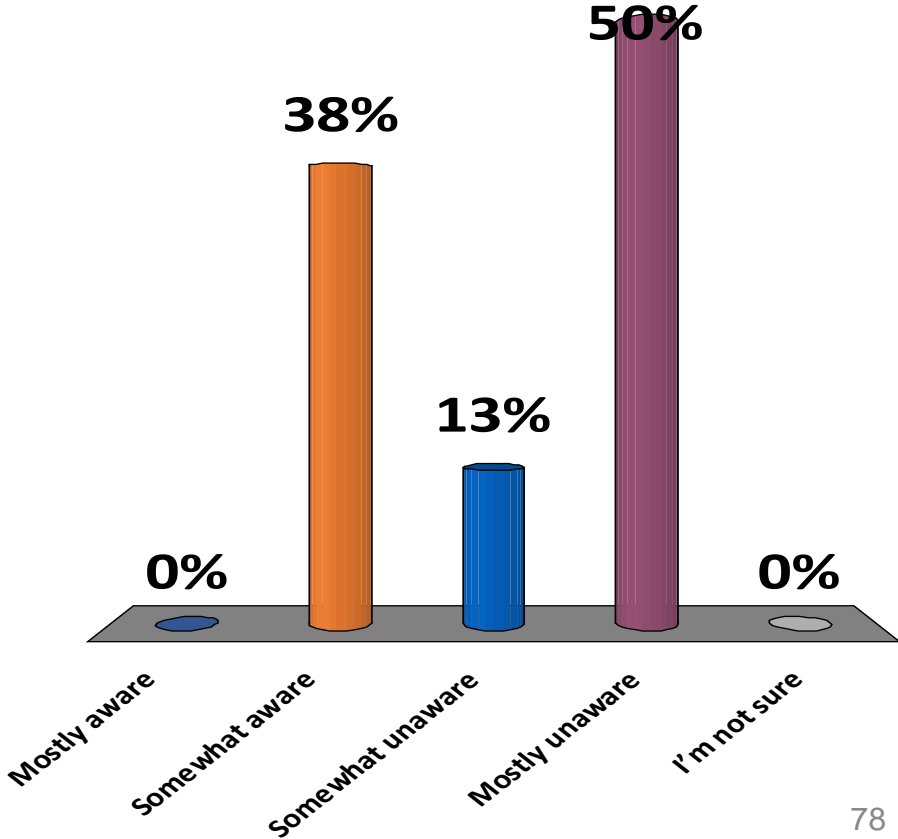
- 1. Mostly aware
- 2. Somewhat aware
- 3. Somewhat unaware
- 4. Mostly unaware
- 5. I'm not sure



# Land Reclamation

Are Fort Worth residents aware of the option to “Request a Speaker” for neighborhood meetings or community events to discuss land reclamation programs?

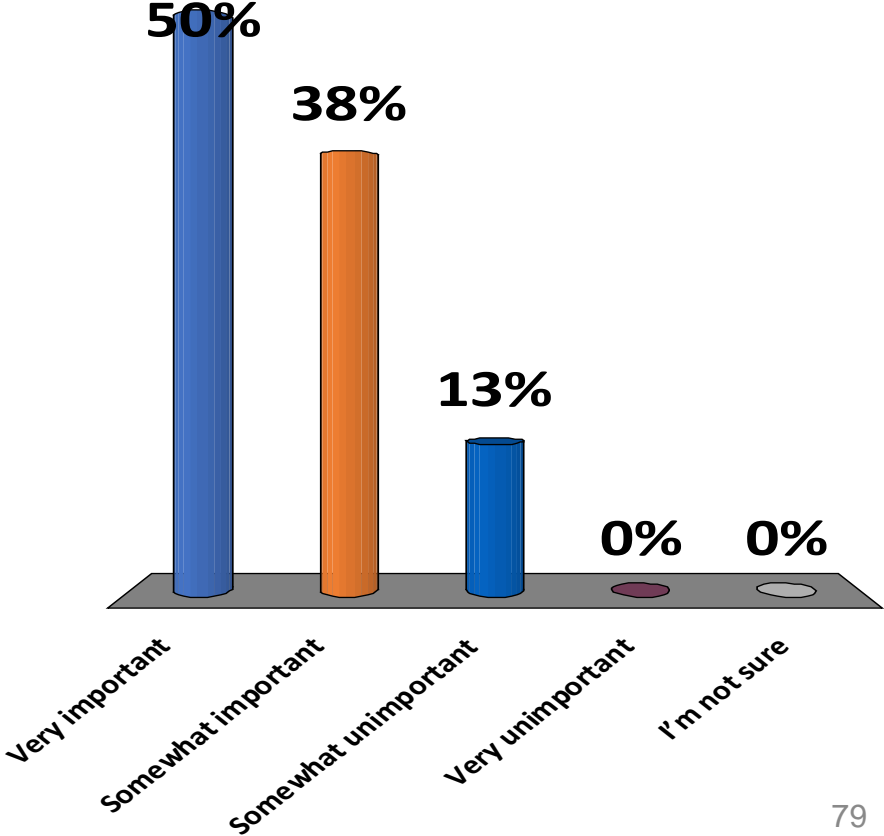
- 1. Mostly aware
- 2. Somewhat aware
- 3. Somewhat unaware
- 4. Mostly unaware
- 5. I'm not sure



# Land Reclamation

How important is it to have environmental site information more easily accessible to the public?

- 1. Very important
- 2. Somewhat important
- 3. Somewhat unimportant
- 4. Very unimportant
- 5. I'm not sure



# Land Reclamation Program Development: General Input

What types of programs or projects would you like to see the City implement ?



## Next Steps

- Second stakeholder meeting scheduled for Nov. 2<sup>nd</sup>, from 6:00pm – 8:00pm.
  - We will cover the Brownfields, Litter Prevention & Abatement and Surface Water Quality Programs.
- Public survey will be available online and will run for 30 days.
- Evaluate and implement the recommendations and information provided through our community and stakeholder outreach activities into the Environmental Master Plan.

# Website

- General information on the Environmental Master Plan
- Key Plan Objectives
- Environmental Plan Background
- Slides from stakeholder meetings and notes will be posted once they are compiled.

<http://fortworthtexas.gov/environmental-master-plan/>

Thank you for your input and  
participation!

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Open for Public Comments

