



Environmental Quality Plan

External Stakeholder Meeting 2

November 2, 2017

Presented by:

Cody Whittenburg – Environmental Quality Division, Environmental Manager

Brandi Kelp – Environmental Quality Division, Environmental Planner

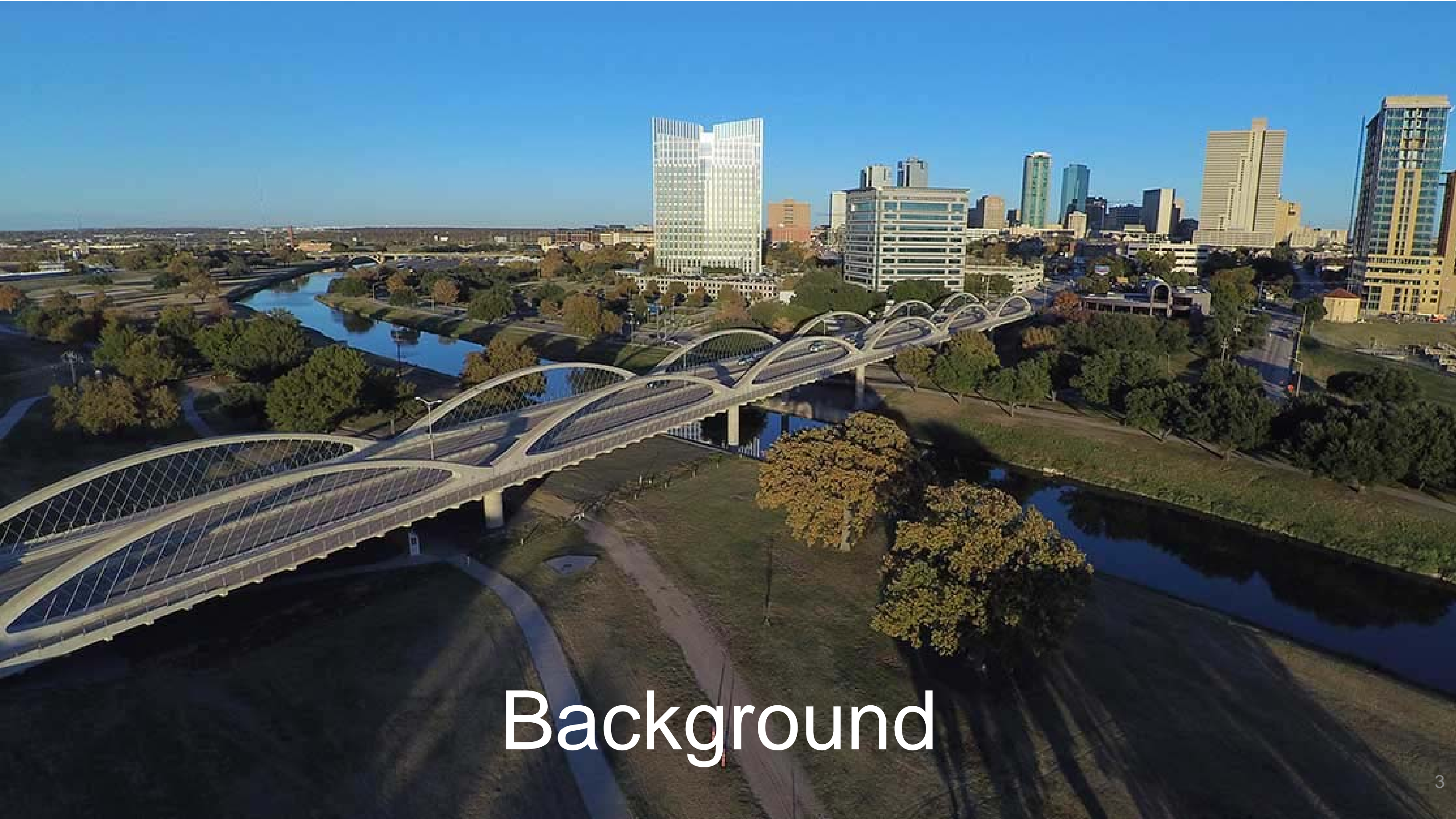
Christina Osterlund – Environmental Supervisor (Surface Water Quality)

Rachel Turney-Work – Enercon Services, Inc.

Karen Walz – Strategic Community Solutions LLC

Agenda

- Background and Introduction (6:00 – 6:25)
- Focused discussion on final 2 topics
 - Brownfields (6:25 – 6:50)
 - Litter Prevention and Abatement (6:50 – 7:20)
 - Surface Water Quality (7:20 – 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

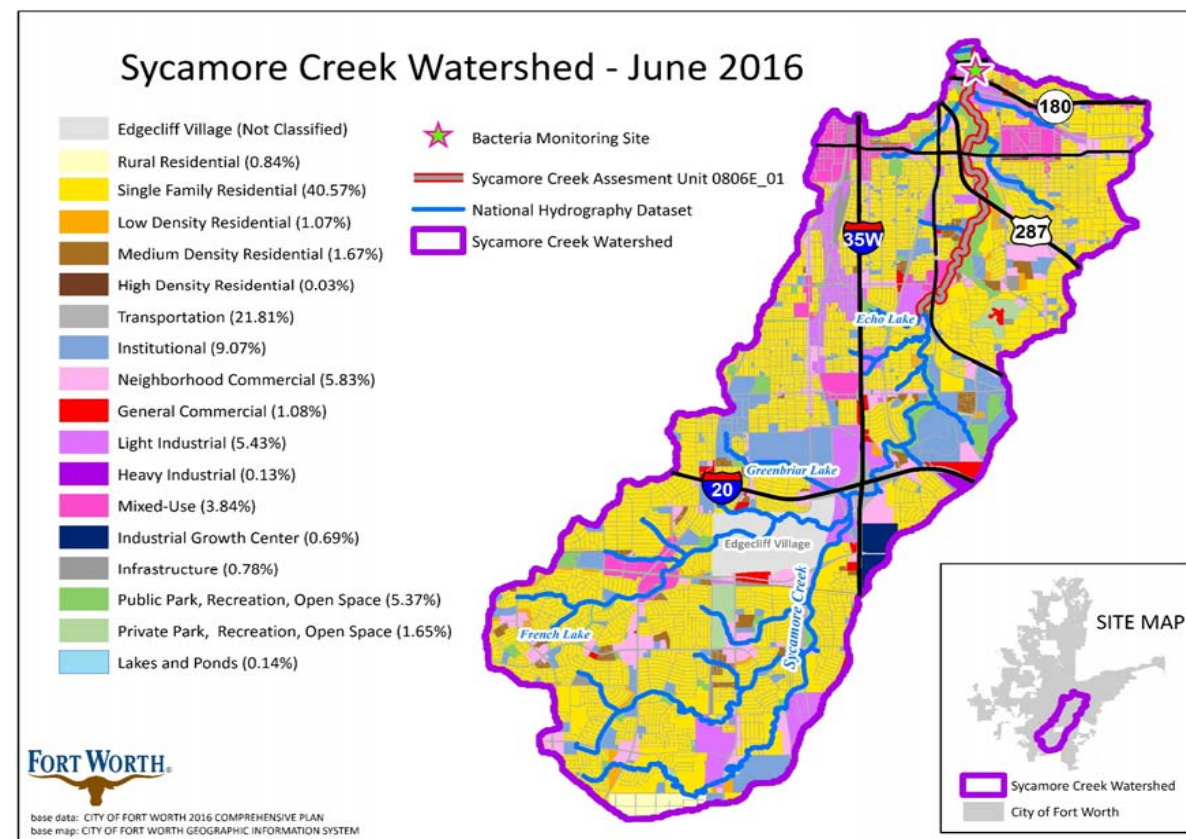


Environmental Quality Division Mission

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.

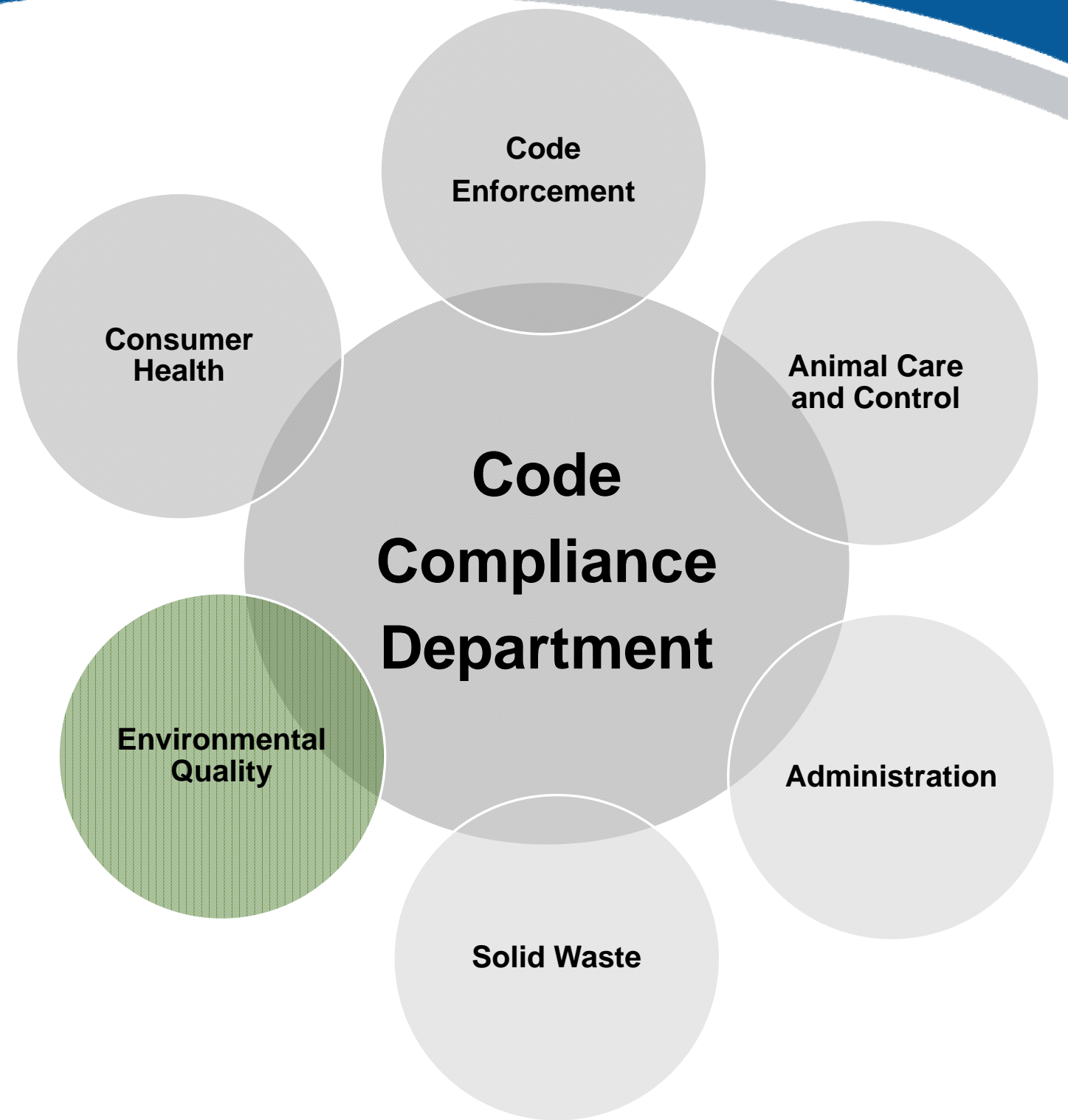


Former brownfields, such as Montgomery Plaza and LaGrave Field, exemplify the benefits of a robust brownfields program.

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**

2016

2017

2018



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

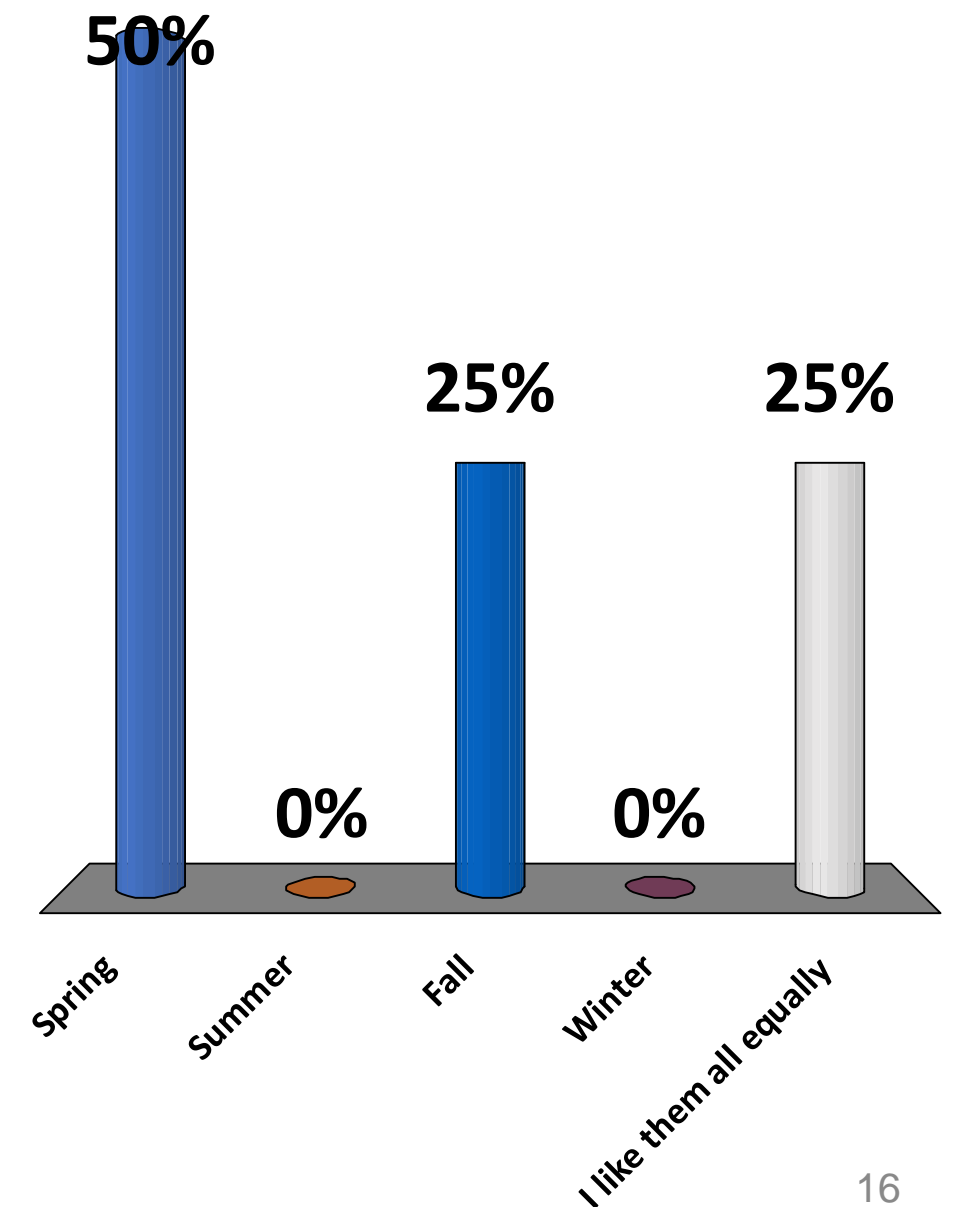


Why keypad polling?

- 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

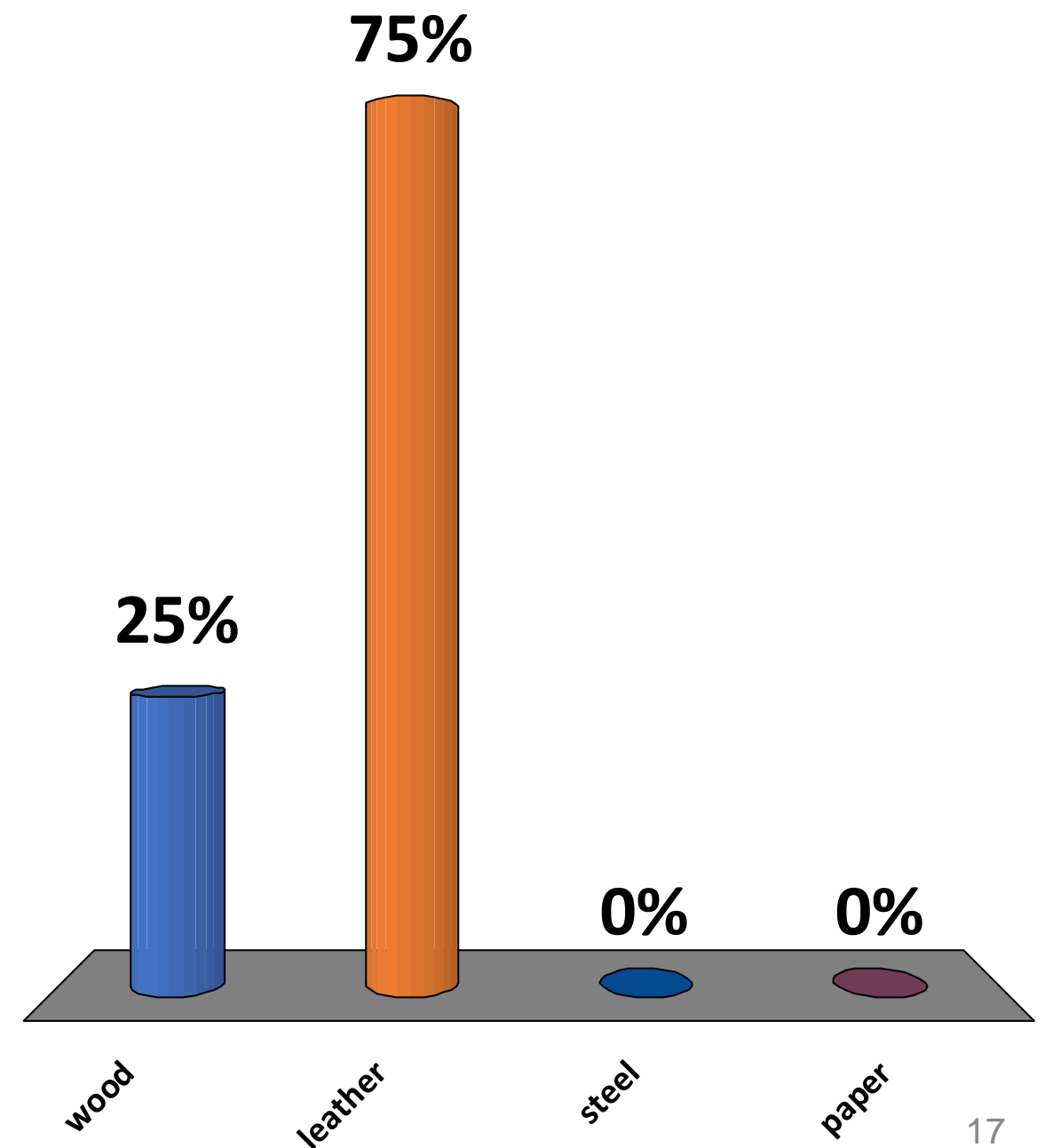
What is your favorite season?

1. Spring
2. Summer
3. Fall
4. Winter
5. I like them all equally



seamstress : cloth :: shoemaker :

1. wood
2. leather
3. steel
4. paper



Chapter 3 (continued): Land Reclamation & Brownfields



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 Programs: Brownfields Redevelopment

Purpose:

Educate developers about the revolving loan and sub-grant programs to encourage the development of Brownfields properties.

Operations:

- Section Staff work with the Economic Development Department to direct Brownfields loan funds to applicants that demonstrate financial health.
- Projects are evaluated to determine if they have the potential to retain and promote new businesses and support infrastructure for future development.



BK34

I agree - need to reword.
Brandi Kelp, 10/30/2017

Program Development

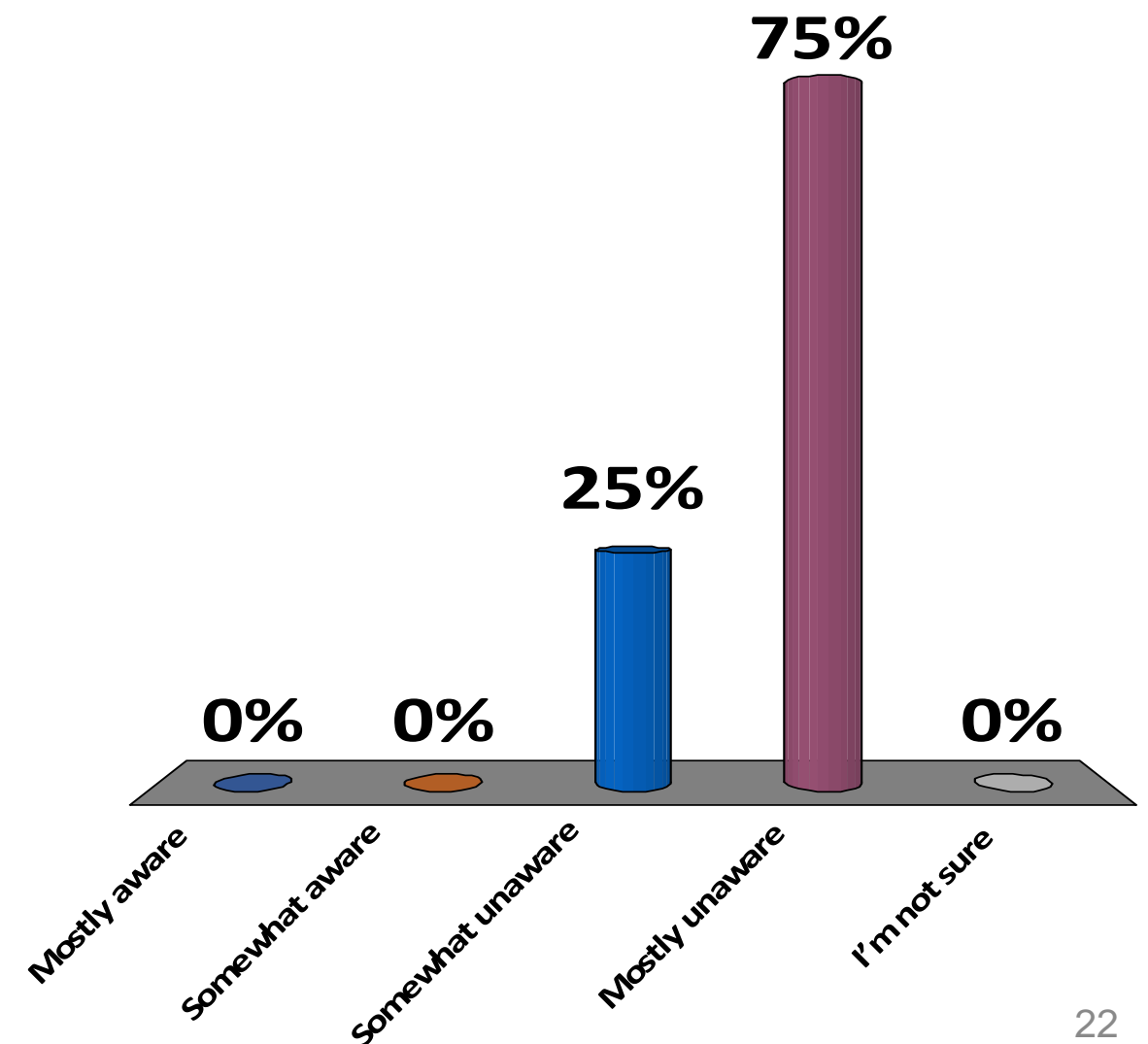
The Land Reclamation & Brownfield Section is considering the following to increase Brownfields development in Fort Worth:

- Develop a “Brown to Green” outreach initiative
- Hold developer workshops and a Brownfields Summit
- Developing a Brownfields and MSD online mapping tool
- Perform environmental assessments so developers understand the impacts on properties
- Develop a comprehensive data management system to provide information on sites throughout Fort Worth

Brownfields Redevelopment

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

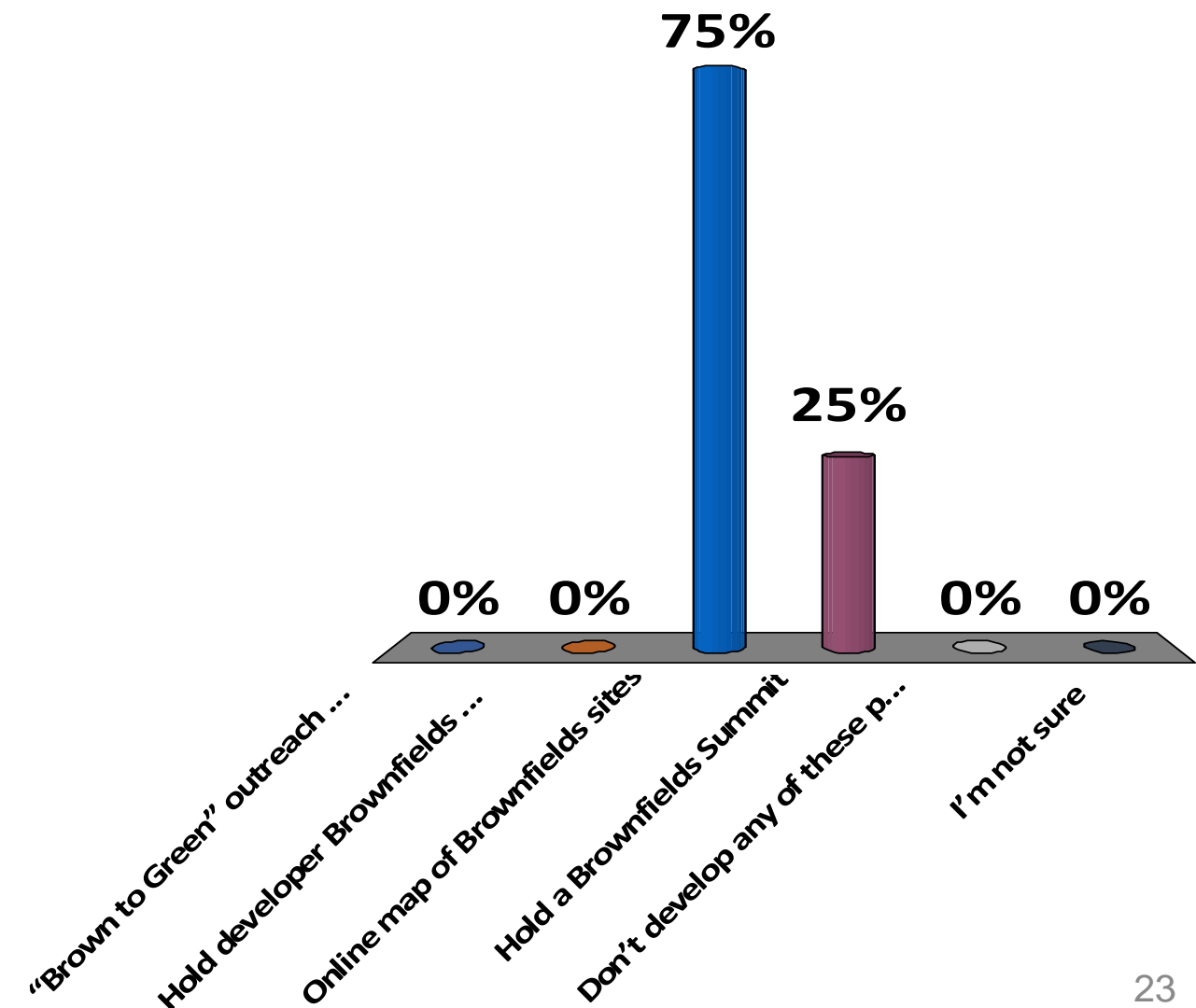
1. Mostly aware
2. Somewhat aware
3. Somewhat unaware
4. Mostly unaware
5. I'm not sure



Brownfields Redevelopment

Which of the following Brownfields projects do you think the City should develop first?

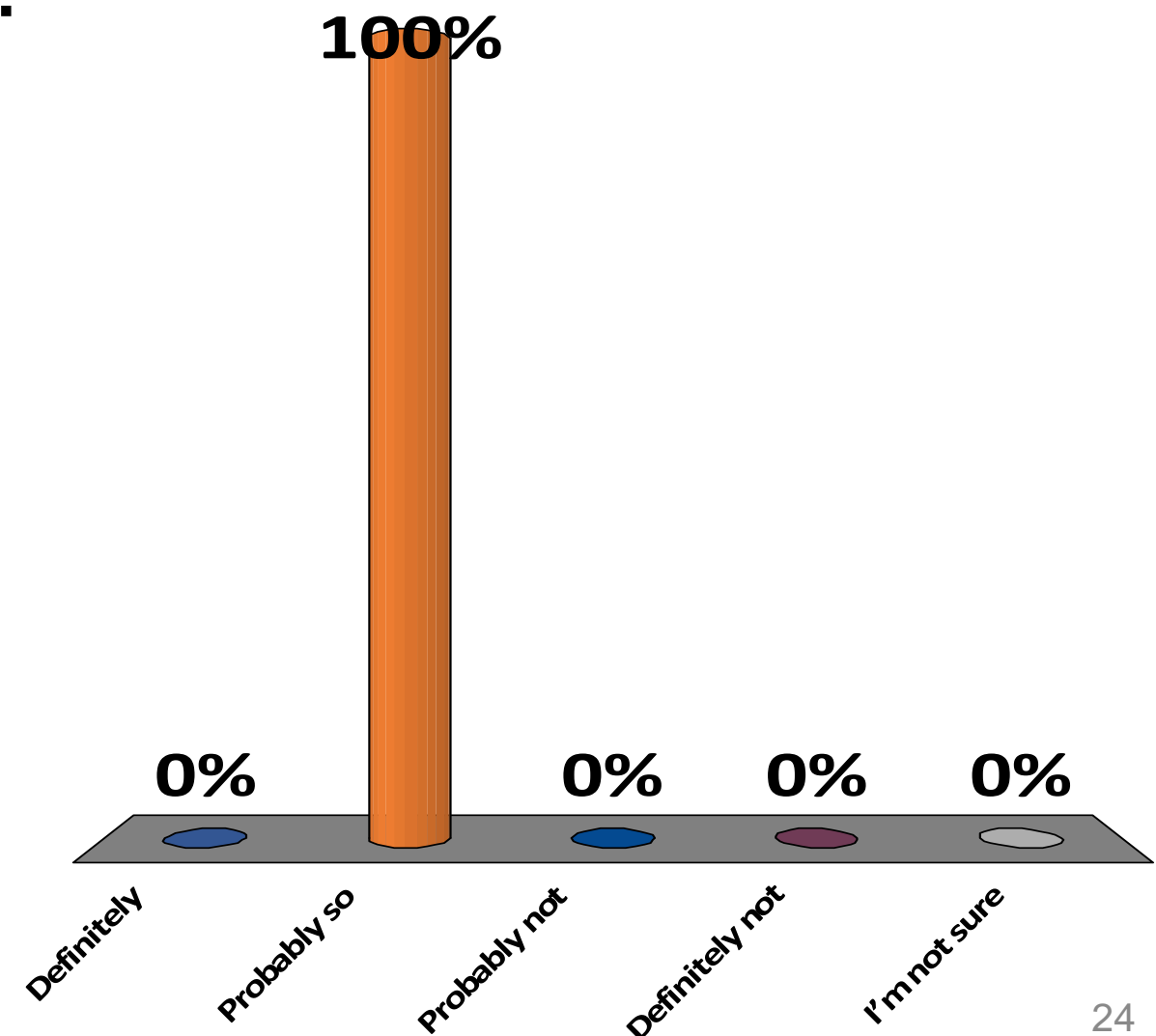
1. “Brown to Green” outreach program to developers
2. Hold developer Brownfields workshops
3. Online map of Brownfields sites
4. Hold a Brownfields Summit
5. Don’t develop any of these projects.
6. I’m not sure



Brownfields Redevelopment

Do you think that performing environmental assessments of properties and making the results available would generate interest in brownfield redevelopment?

1. Definitely
2. Probably so
3. Probably not
4. Definitely not
5. I'm not sure



Land Reclamation & Brownfields Program Development: General Input

What changes or enhancements would you like to see in the City's Brownfields program?

Chapter 4: Litter Prevention and Abatement



Litter Prevention & Abatement

Vision

- Make Fort Worth the cleanest city in Texas.

Mission

- Eliminate litter in Fort Worth through active litter prevention, reduction, and enforcement programs.

Value

- Reduce the amount of litter throughout the City of Fort Worth.
- Build community pride, increase property values, and provide litter abatement and enforcement cost savings measures.

Current Litter Programs

- Comprehensive Litter Management Plan
- Anti-litter Ordinance
- Adopt-a-Spot (Park and Rec)
- Mowing contracts require litter pick-up
- Litter Summit
- Litter Speakers' Bureau
- Anti-Litter signage and vehicle wraps
- Street sweeping and portable litter collectors
- Reverse Litter partnership with TRWD
 - Ten on Tuesday Campaign
 - Floatables management
 - Storm Drain management
 - Trinity Trash Bash
 - Litter-Free Fort Worth outreach brand
 - Litter-Free Lots commercial business outreach (Pilot)

Current Litter Programs

- Keep Fort Worth Beautiful
 - Special cleanup events
 - Support resident-initiated cleanup events
 - Litter-Free School Zones (Pilot)
 - Trash-Free Waters (Pilot)
 - Social media and website

- Illegal Dumping and Materials Management – Solid Waste
 - Illegal dump and environmental investigations unit
 - Litter abatement through contracts with non-profits
 - Drop-Off Stations and HHW
 - Public trash and recycling bins

Current Programs: CFW Litter Prevention and Abatement

Purpose:

The objective of this program is to decrease the amount of litter present in Fort Worth.

Operations:

- Comprehensive Litter Management Plan.
- City-operated street sweeping partnership with Solid Waste Division.
- Anti-Litter vehicle wraps.
- “Adopt-a-Spot” initiatives – Park and Rec.
- Created a Litter Speakers’ Bureau – part of “Request a Speaker” program.
- Held Litter Summit with local partners, like BNSF, TCU, FWISD to discuss initiatives.



Current Programs: CFW Litter Regulation & Enforcement

Purpose:

This program provides a basis for regulating and enforcing City of Fort Worth Litter Programs.

Operations:

- CFW Litter Ordinance references state litter laws and establishes fines for littering and littered properties – fines up to \$2,0000.
- Work collaboratively with partners (Police Department and Consumer Health Division, Tarrant County DA, business owners, etc.) to identify and cleanup illegal dumping and enforce City ordinances.
- Routinely assess the sixteen (16) commercial corridors within Fort Worth for compliance.

Current Programs: TRWD Partnership

Purpose:

Regional litter partnership focused on protecting the Trinity River.

Operations:

- Reverse Litter and Ten on Tuesday outreach campaigns.
- Floatables management
- Adopt-a-Storm Drain
- Trinity Trash Bash litter cleanup event
- Litter-Free Lots commercial business outreach (Pilot)



Current Programs: Keep Fort Worth Beautiful

Purpose:

KFWB has three core objectives – end littering, beautify communities, improve recycling.

Operations:

- Abate litter through special cleanup events and by supporting resident-initiated cleanup events
- Work with SPARC after-school program to encourage participation in Litter-Free School Zones (Pilot)
- Build plan and encourage participation in Trash-Free Waters, an adopt-a-spot program for rivers (Pilot)
- Utilize social media, print, and website to promote events and initiatives



Current Programs: Illegal Dumping and Materials Management

Purpose:

This program is housed in the Solid Waste Division of Code, and focuses on preventing litter from occurring.

Operations:

- Investigate environmental crimes and illegal dumping.
- Work collaboratively with partners to install and maintain litter prevention materials and equipment, like trash and recycling bins in public spaces.
- Programs Components include: Drop-off Stations, Household Hazardous Waste, Containers and Bins.

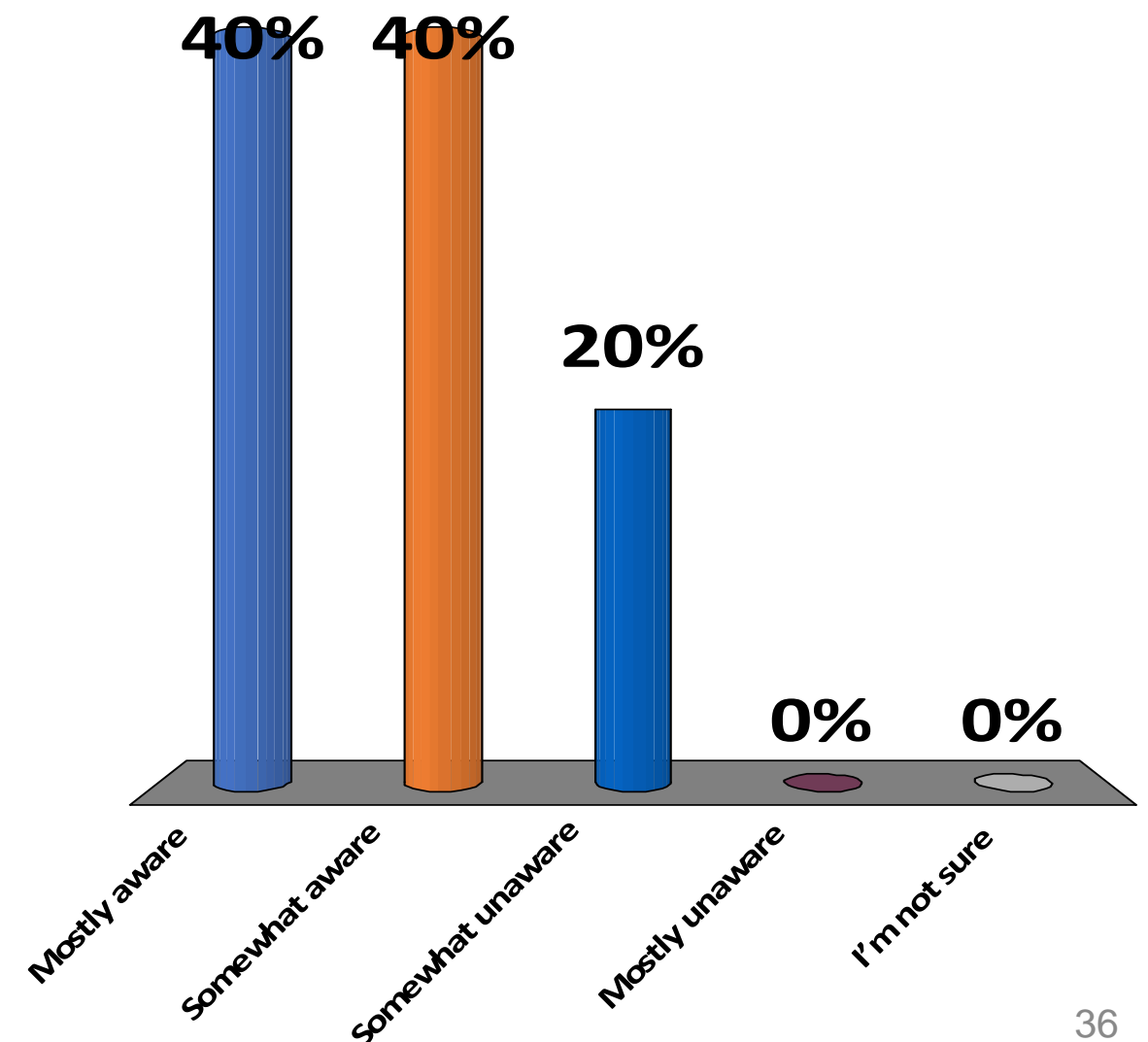


The Litter Section is focused on expanding existing programs and developing new program components, including:

- Volunteer Training
- School Green Teams
- Litter Speakers Bureau
- Cigarette Butt Initiative
- Litter-Free Fort Worth outreach initiatives
- Ensuring Litter Ordinance enforcement

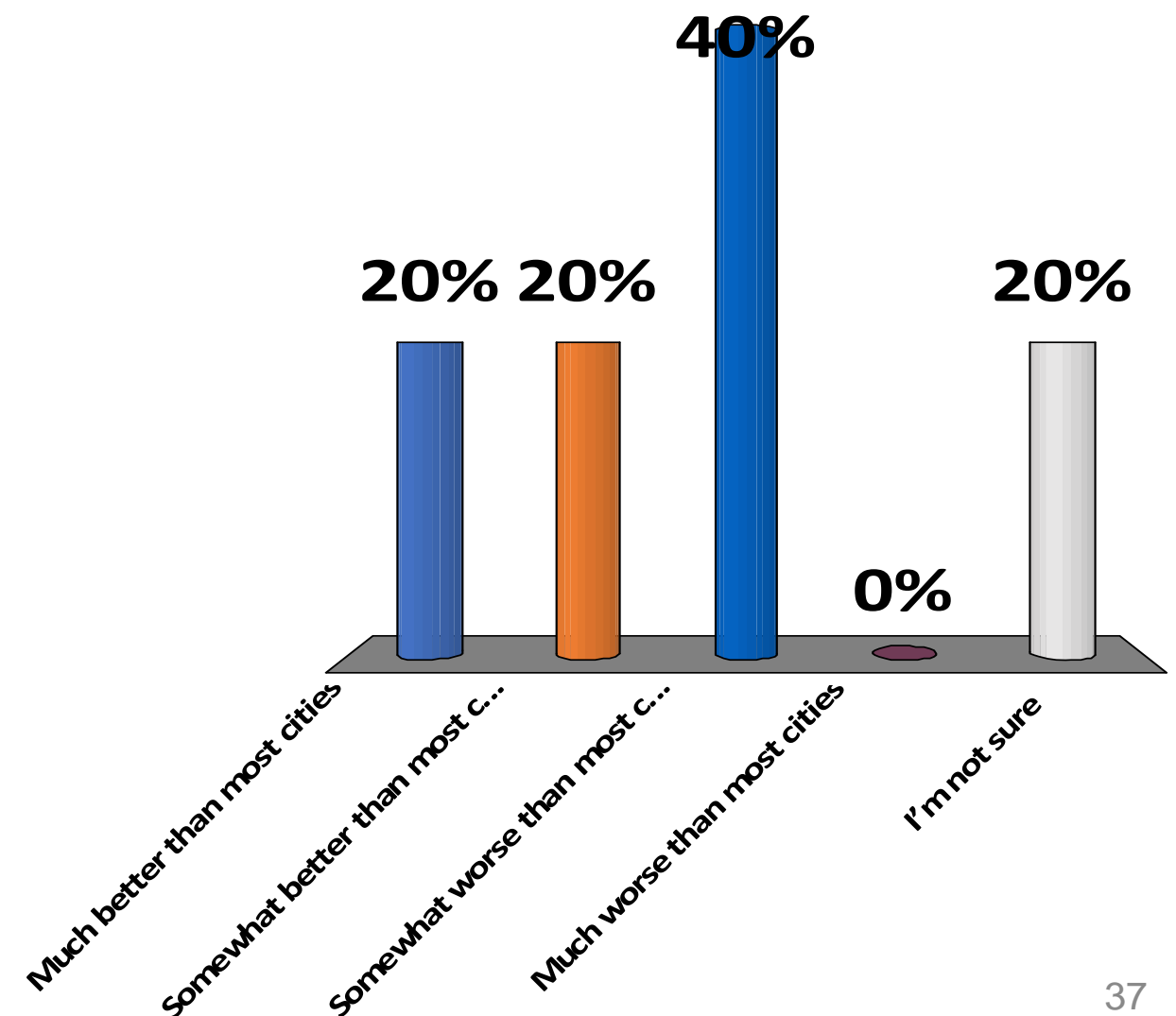
Are Fort Worth residents aware of the City's litter programs and projects?

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



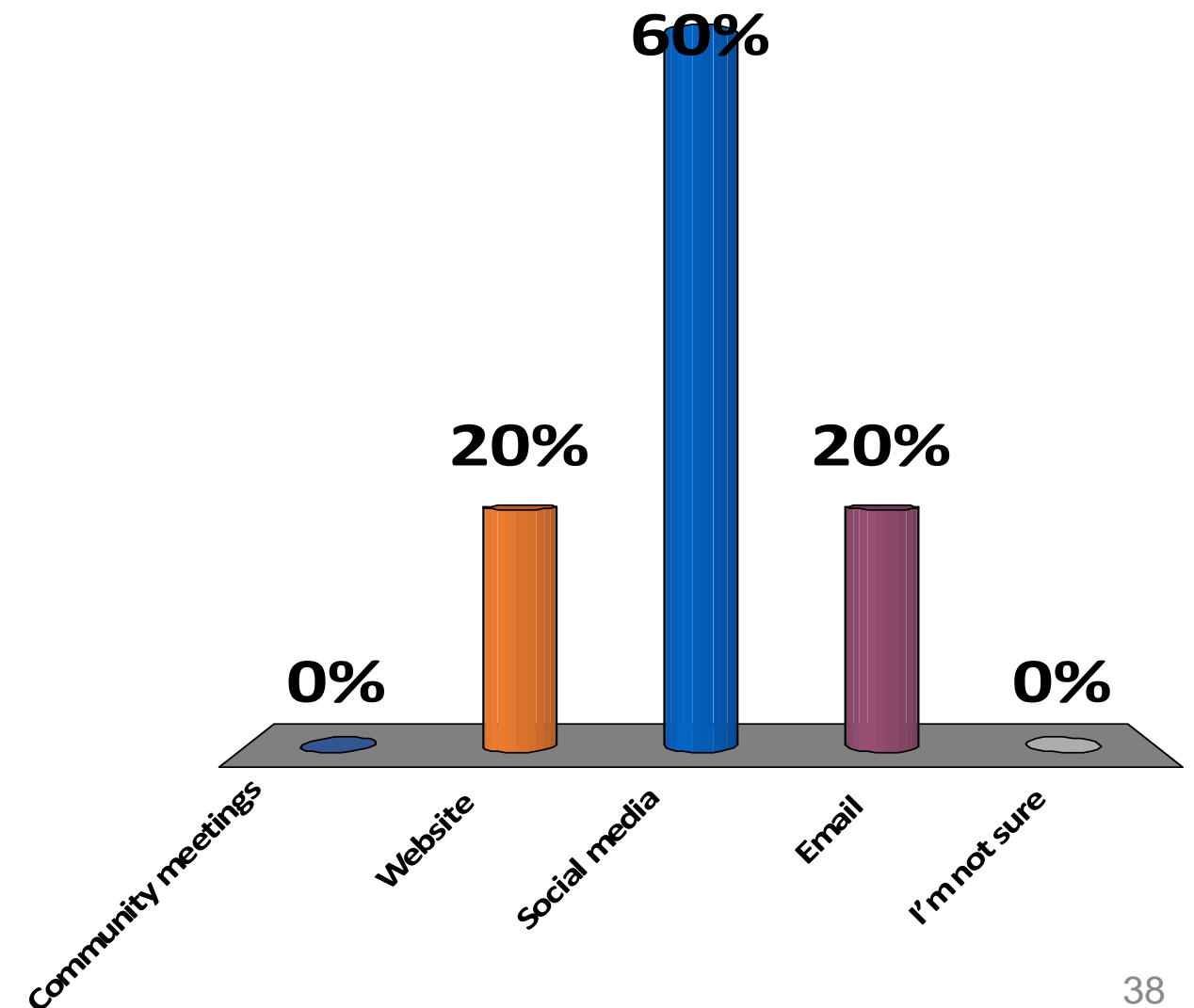
Overall, how do you think Fort Worth's litter management programs compare with other cities?

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



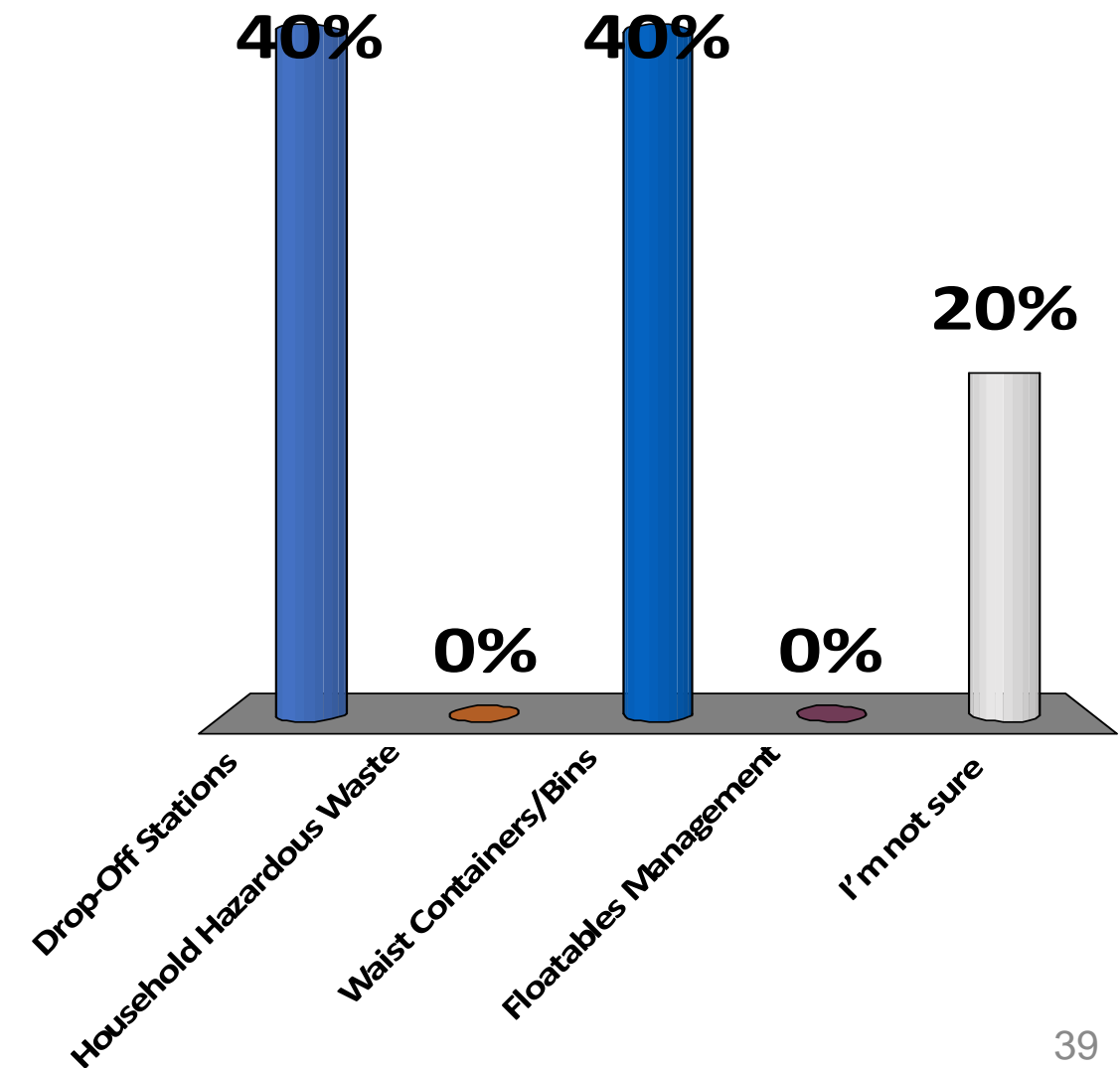
How do residents of Fort Worth follow Keep Fort Worth Beautiful activities?

1. Community meetings
2. Website
3. Social media
4. Email
5. I'm not sure



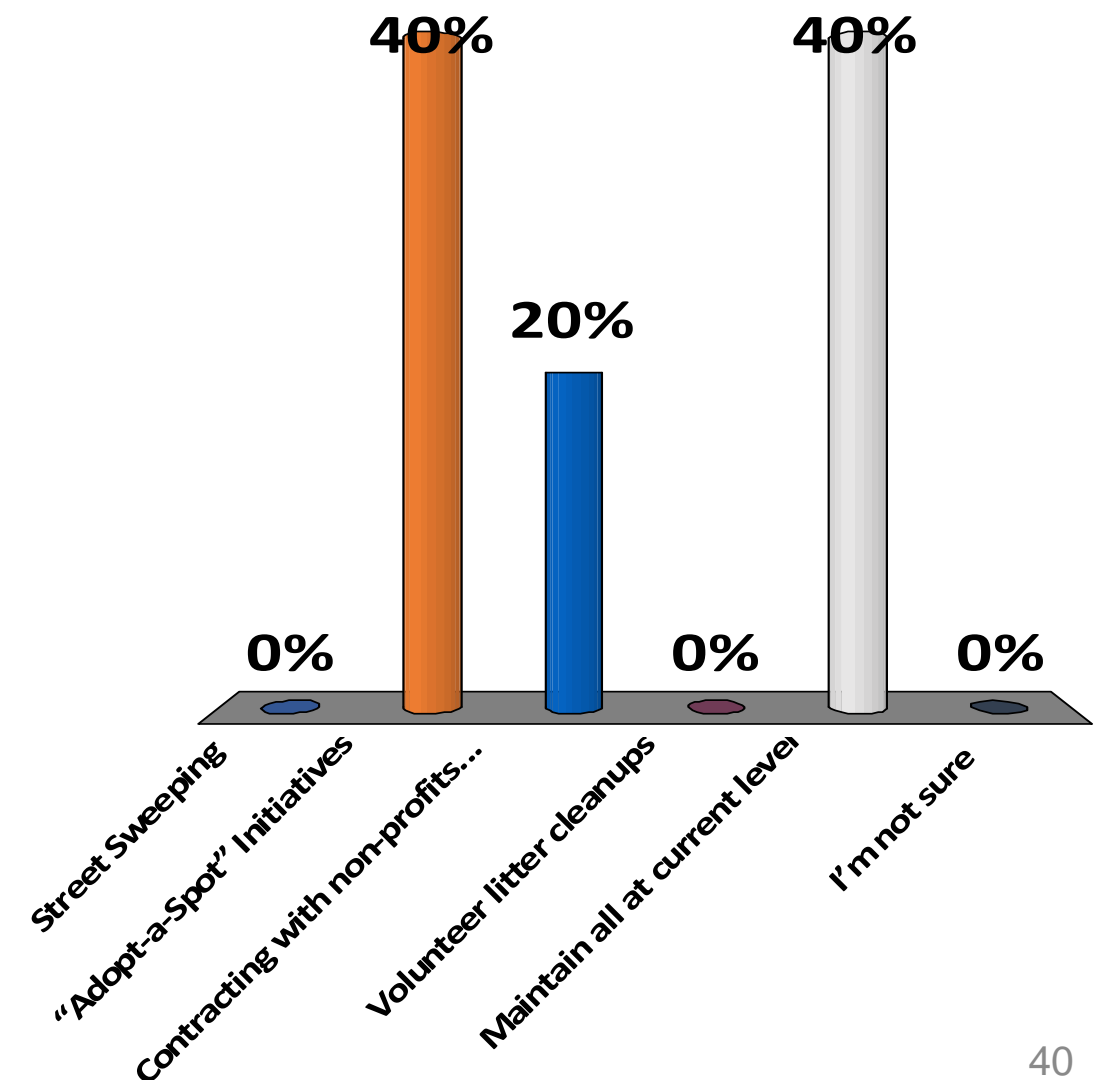
Which of the following litter and illegal dumping prevention initiatives do you think is the most effective?

1. Drop-Off Stations
2. Household Hazardous Waste
3. Waist Containers/Bins
4. Floatables Management
5. I'm not sure



Which of the following litter abatement initiatives do you think should be top priority for expansion?

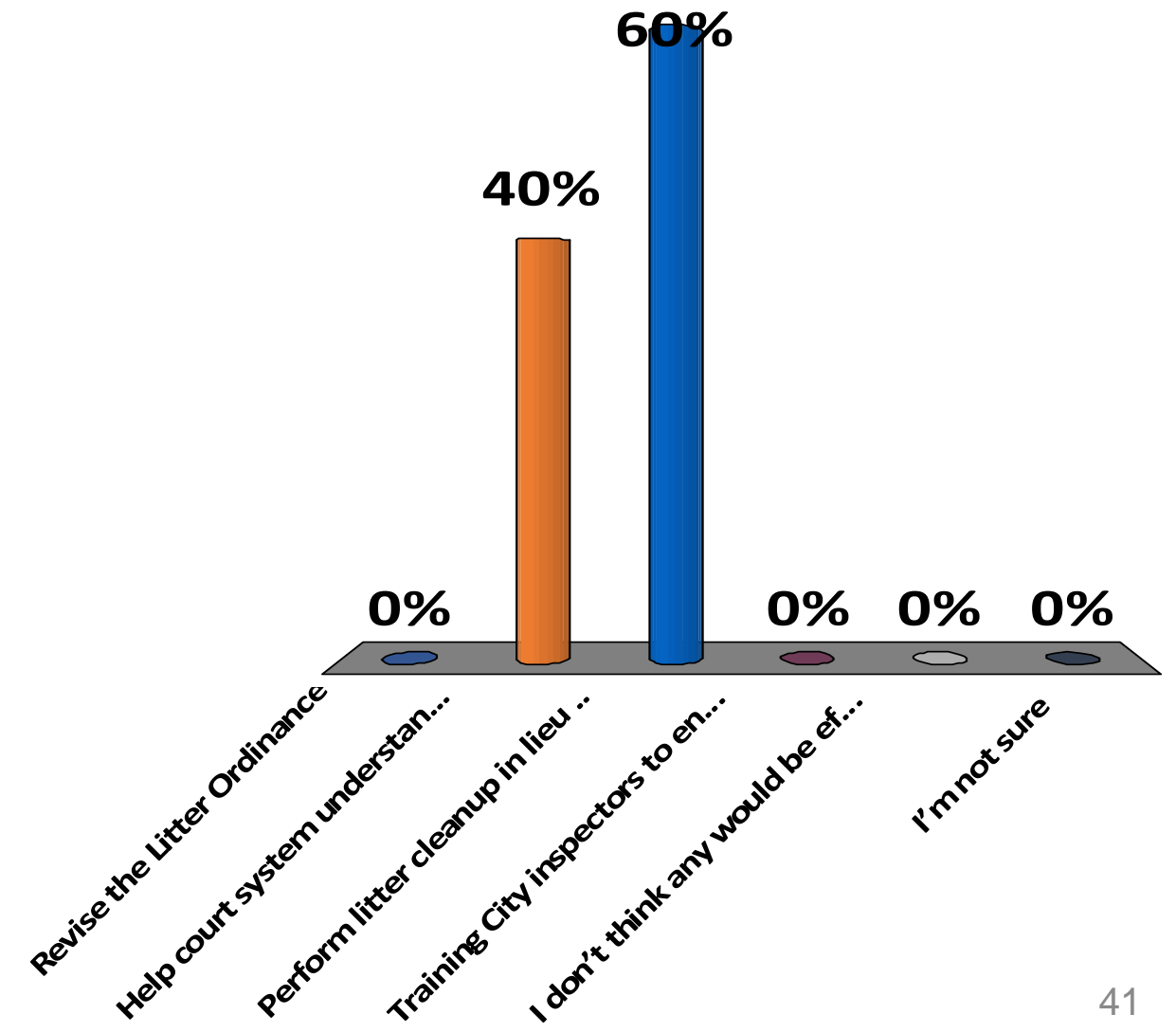
1. Street Sweeping
2. “Adopt-a-Spot” Initiatives
3. Contracting with non-profits to pick up litter
4. Volunteer litter cleanups
5. Maintain all at current level
6. I’m not sure



Local Litter Regulation & Enforcement

Which of the following litter regulation and enforcement initiatives do you think would be the most effective?

1. Revise the Litter Ordinance
2. Help court system understand the importance of litter fines
3. Perform litter cleanup in lieu of paying fine for littering
4. Training City inspectors to enforce litter regulations
5. I don't think any would be effective.
6. I'm not sure



Litter Prevention and Abatement Program Development: General Input

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

Chapter 5: Surface Water Quality



Surface Water Quality

Vision

- Be a healthier, more livable city by ensuring surface waters are clean and safe for recreation and use.

Mission

- To preserve, protect and improve the City's surface water quality for present and future generations.
- To maintain compliance with municipal separate storm sewer system (MS4) permit requirements.

Value

- Provide safe water for recreation to residents and visitors.
- Preserve our natural spaces, biodiversity, fish stock, native plants, and wildlife habitats.

Current Surface Water Quality Programs

- Industrial Stormwater Quality Inspection
- Municipal Facility Stormwater Quality Inspection
- Construction Stormwater Quality Inspection
- Wet Weather Monitoring
- Dry Weather Monitoring
- Stream Health
- NCTCOG Regional Watershed Characterization
- Indicator Bacteria Monitoring
- Power Washing
- Watershed Characterization

Current Programs: Industrial Stormwater Quality Inspection

Purpose:

Prevent/Reduce the amount of contaminated stormwater runoff from industrial sites.

Operations:

- Monitor facilities permitted by the state or other entities for industrial discharges into the stormwater system.
- Inspect permitted industrial facilities.
- Primary contaminants of concern include metals, oil and grease, and process chemicals.
- Provide enforcement, education and assistance when needed.



Current Programs: Municipal Facility Stormwater Quality Inspection

Purpose:

Ensure compliance with the City's MS4 permit and to reduce contaminated stormwater runoff from City-owned facilities.

Operations:

- Monitor City-owned facilities for pollution prevention and the application of pesticides, herbicides and fertilizer.
- Provide enforcement, education and assistance when needed.
- Provide increased and more efficient monitoring to reduce potential pollutants entering the stormwater system.



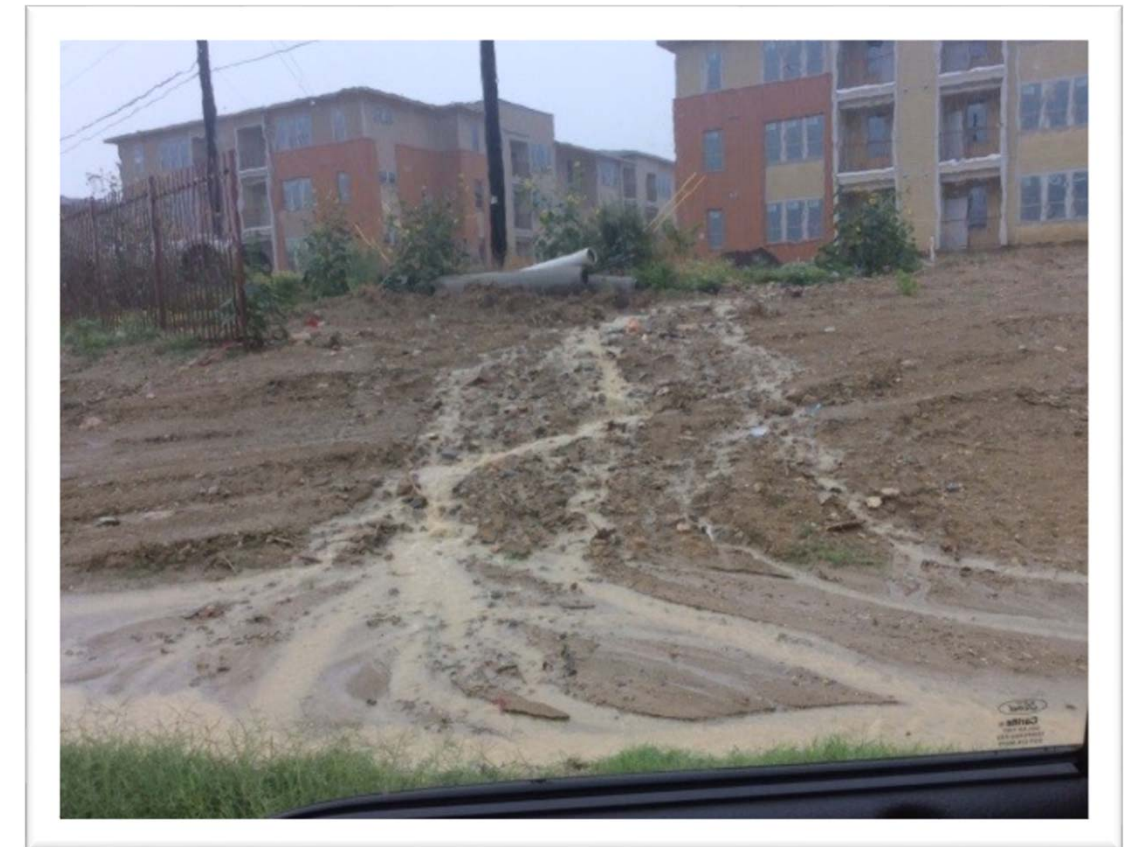
Current Programs: Construction Stormwater Quality Inspection

Purpose:

Prevent/Reduce the amount of contaminated stormwater runoff from construction sites that enters the municipal stormwater system.

Operations:

- Inspect construction sites every 45 days, including follow up, enforcement, operator education and grading permit reviews.
- Maintain partnerships with neighboring MS4s (TxDOT and TRWD), as well as the Planning and Development and Stormwater Management Departments.
- Approximately 500 active permitted sites.



Current Programs: Wet Weather Monitoring

Purpose:

Monitor basic parameters at select sampling sites to evaluate water quality and identify need for source tracking or related water quality concerns when raining.

Operations:

- Conduct sampling during wet weather for basic water quality parameters to include: pH, specific conductivity, and turbidity.
- Additional parameters: nitrates, phosphates, metals and bacteria
- Program meets a requirement of the City's MS4 permit.



Current Programs: Dry Weather Monitoring

Purpose:

Detect the presence of illicit connections/improper discharges to the MS4 and identify need for source tracking or related water quality concerns when it's dry.

Operations:

- Conduct sampling during dry weather for primary parameters, which include: temperature, pH, color, turbidity, copper, phenols, chlorine, ammonia-nitrogen, and detergents.
- Works collaboratively with CFW Stormwater and Water Departments for infrastructure concerns.
- Currently over 1700 major outfalls requiring screening.
- Required by MS4 permit.



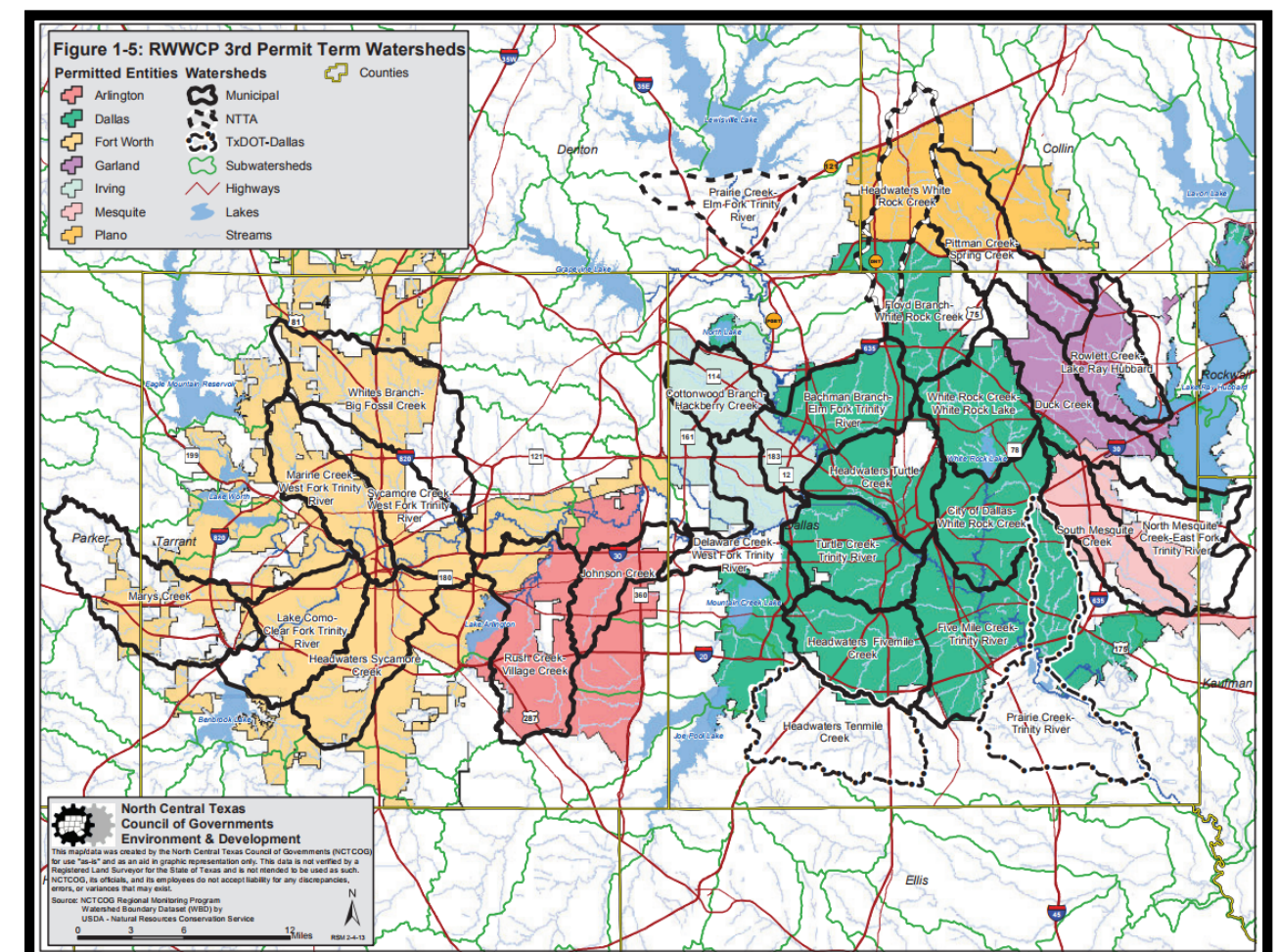
Current Programs: NCTCOG Regional Watershed Characterization

Purpose:

Manage stormwater quality issues affecting the region as part of a collaborative effort throughout the region.

Operations:

- Characterize pollutants of concern for the region.
- Evaluate long-term trends in water quality and concentrate on those watersheds which indicate a greater impact from stormwater runoff (across North Texas).
- Fort Worth conducts sampling of two (2) watersheds per year for contaminants, required by MS4 permit for this program.



Purpose:

Assess the biological communities of streams, which reflect the integrity of the system as a whole.

Operations:

- Conduct sampling, as part of the Rapid Bioassessment Monitoring program, of six (6) watersheds twice a year, at three locations per stream.
- Takes physical and chemical characteristics into account.
- Includes habitat, chemical, macroinvertebrates, and fish sampling.
- Required by MS4 permit.



Current Programs: Indicator Bacteria Monitoring

Purpose:

Monitor bacteria levels in the City's surface water and provide information about potential human health risks.

Operations:

- Conduct monthly sampling at seven (7) locations throughout the City on the same day.
- Includes habitat, chemical, macroinvertebrates, and fish sampling.
- Part of the TCEQ/Clean Rivers Program.



Current Programs: Commercial Cleaner (Power Washer)

Purpose:

Permit and educate commercial power-washer operators on allowable discharges to both the MS4 and the sanitary sewer system.

Operations:

- CFW ordinance requires a permit that is issued at ENV office.
- Uncontrolled soaps, detergents, wash water and grime mixed with power-wash water will flow to local storm drains and creeks.
- Primary contaminants of concern vary includes temperature, pH, oil and grease, grit, paint, and detergents.
- Enforcement is an option for not collecting/controlling runoff from these operations.

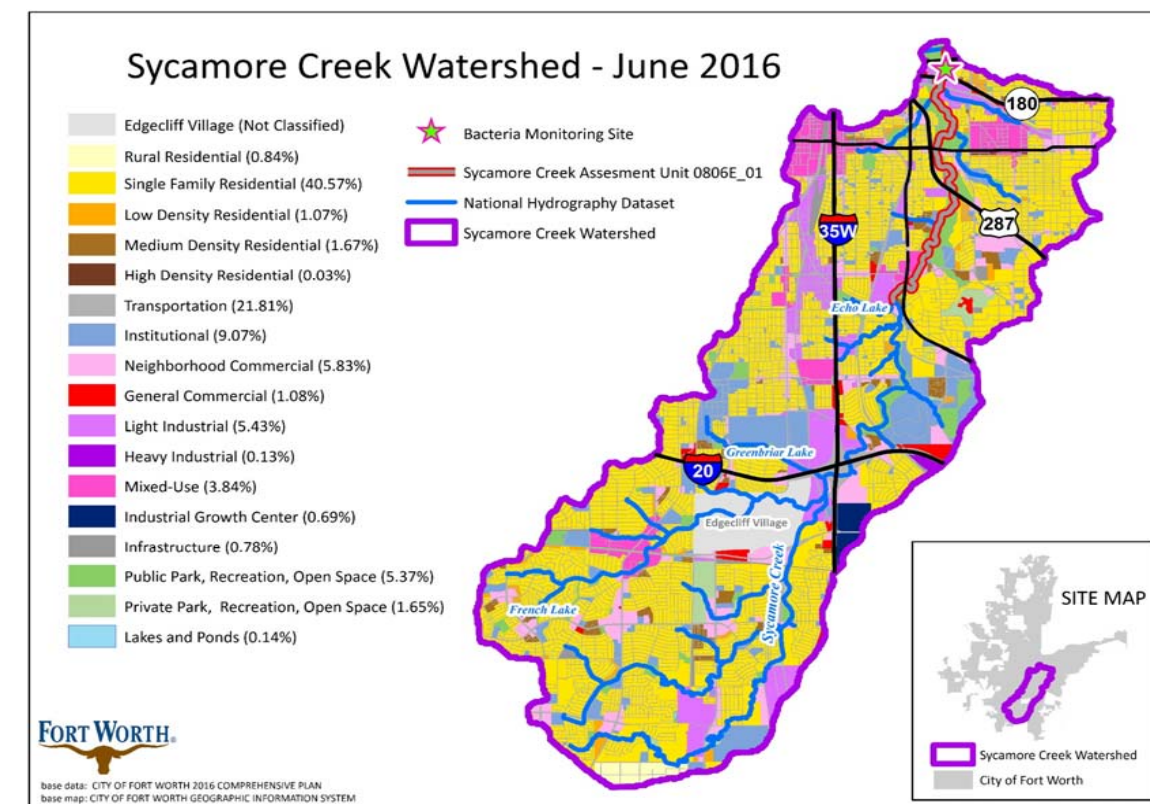
Current Programs: Watershed Planning

Purpose:

Assess and monitor Fort Worth watersheds to identify those that are already impacted and those that are at risk.

Operations:

- Evaluate watersheds within the city.
- Develop comprehensive plans for impacted and at-risk watersheds.
- Example project is the Sycamore Creek Watershed Assessment Project.



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.

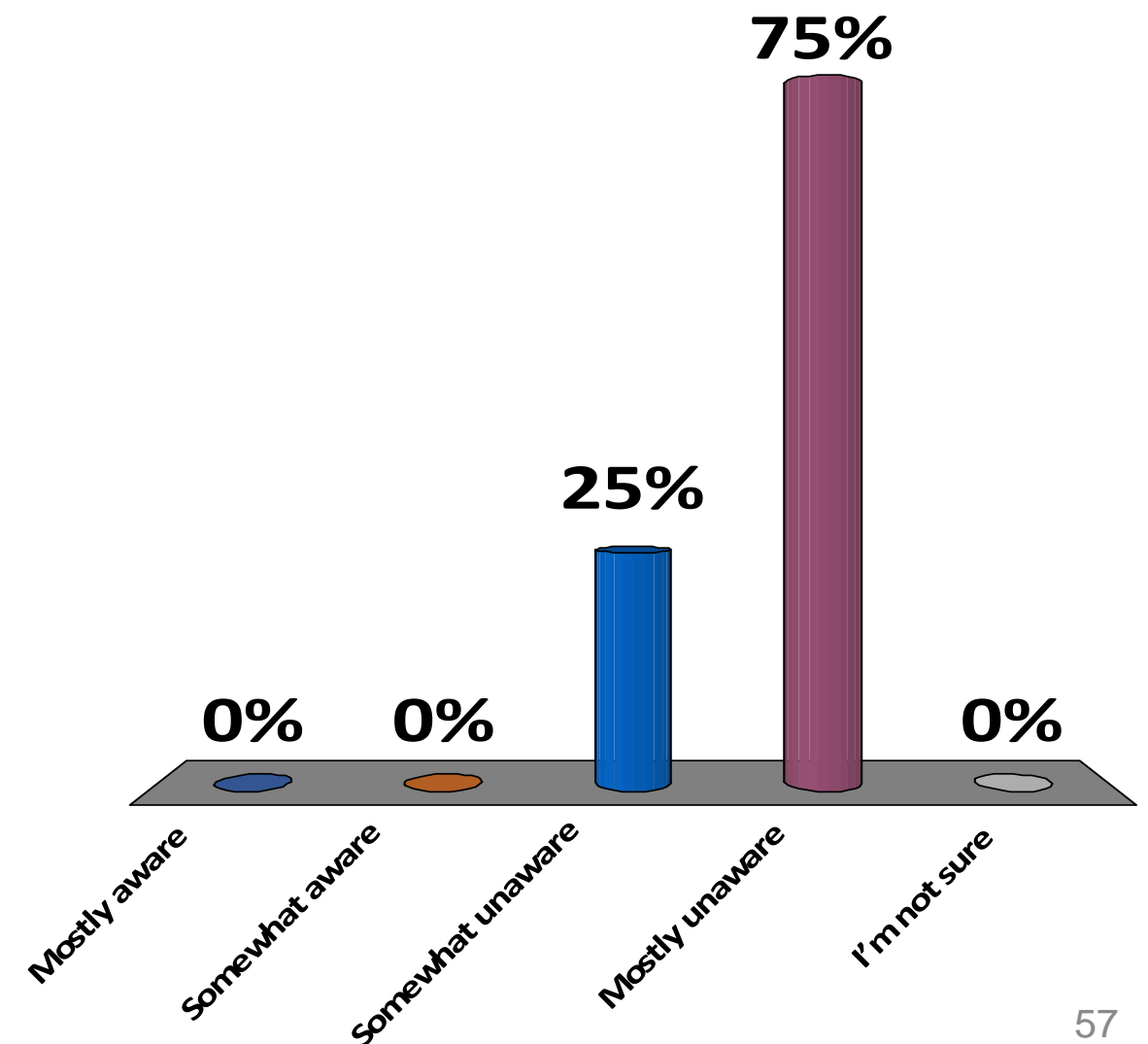
The Surface Water Section is considering the expansion of existing programs and developing new programs, including:

- Developing a citizen scientist program to collaborate with volunteers for data collection and water quality assessments.
- Enhance Stream Health Program to be in line with TCEQ standard.
- Explore partnerships to perform data collection and assessments.
- Increase bacteria monitoring.
- Establish a reporting system for complaints and illegal power washing observances.
- Expand watershed characterization programs.
- Develop comprehensive watershed plans for all watersheds within Fort Worth.

Surface Water Quality

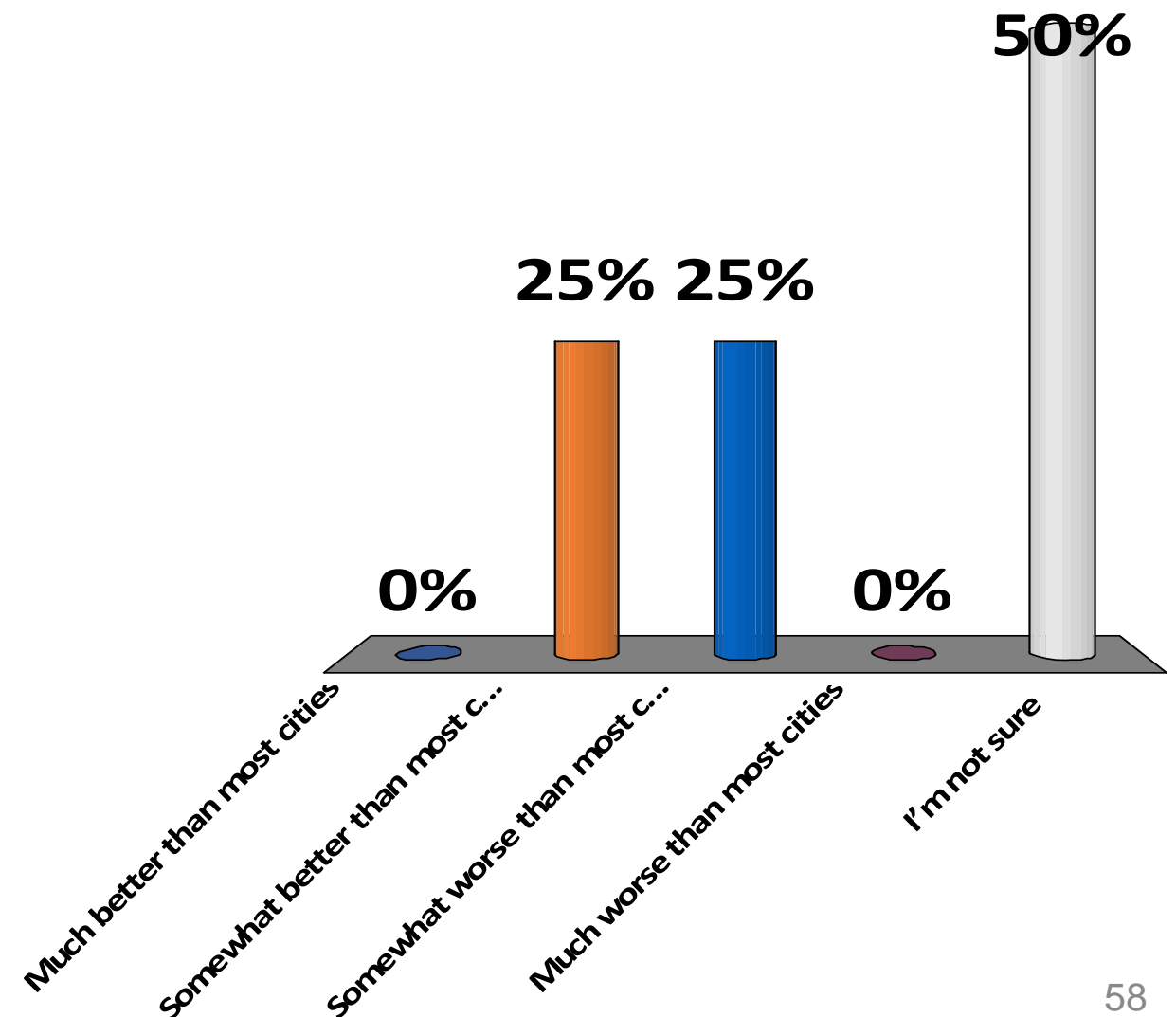
Are Fort Worth residents aware of the City's Surface Water Quality programs and projects?

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



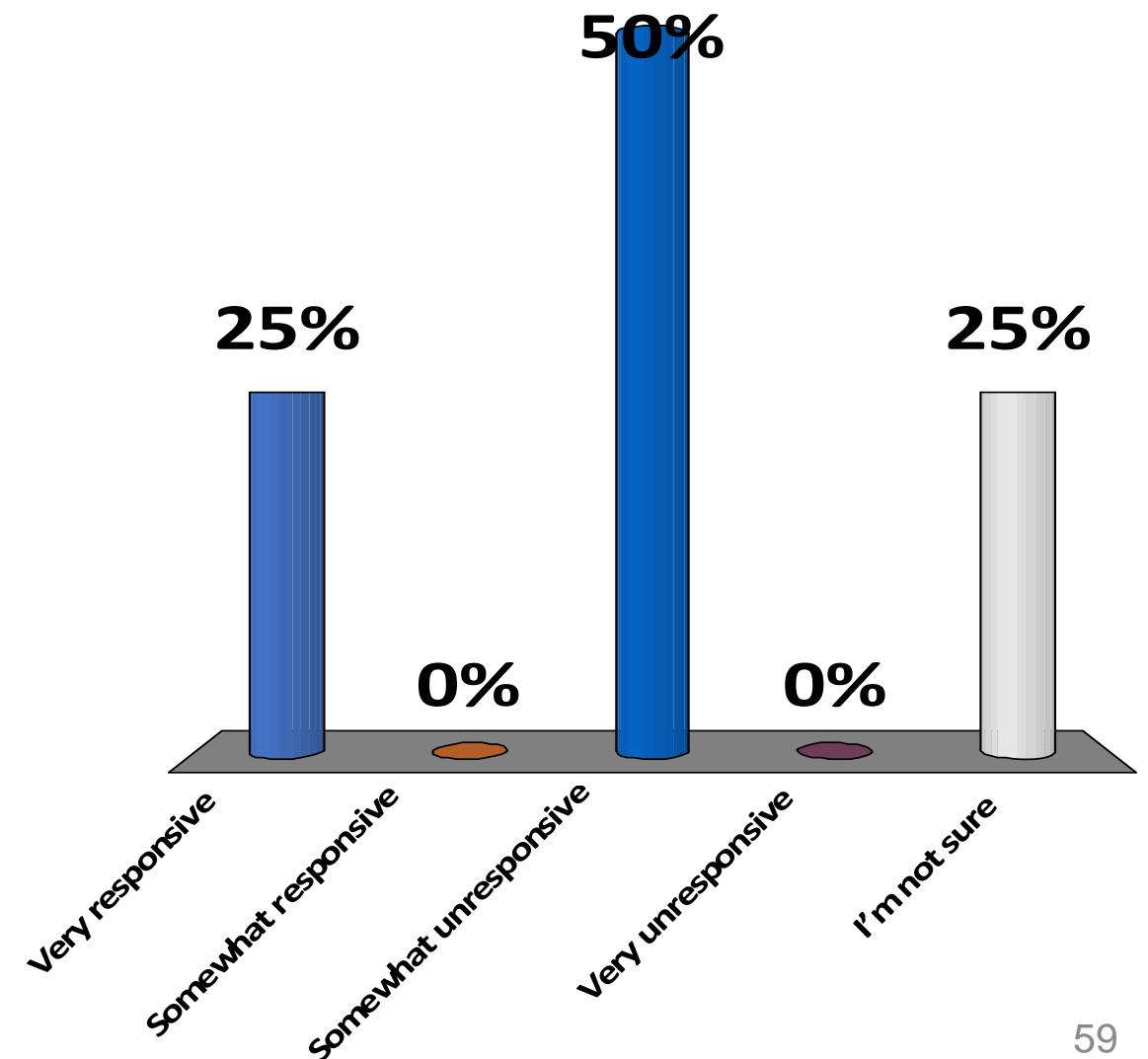
Overall, how do you think Fort Worth's surface water quality compares with other cities?

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



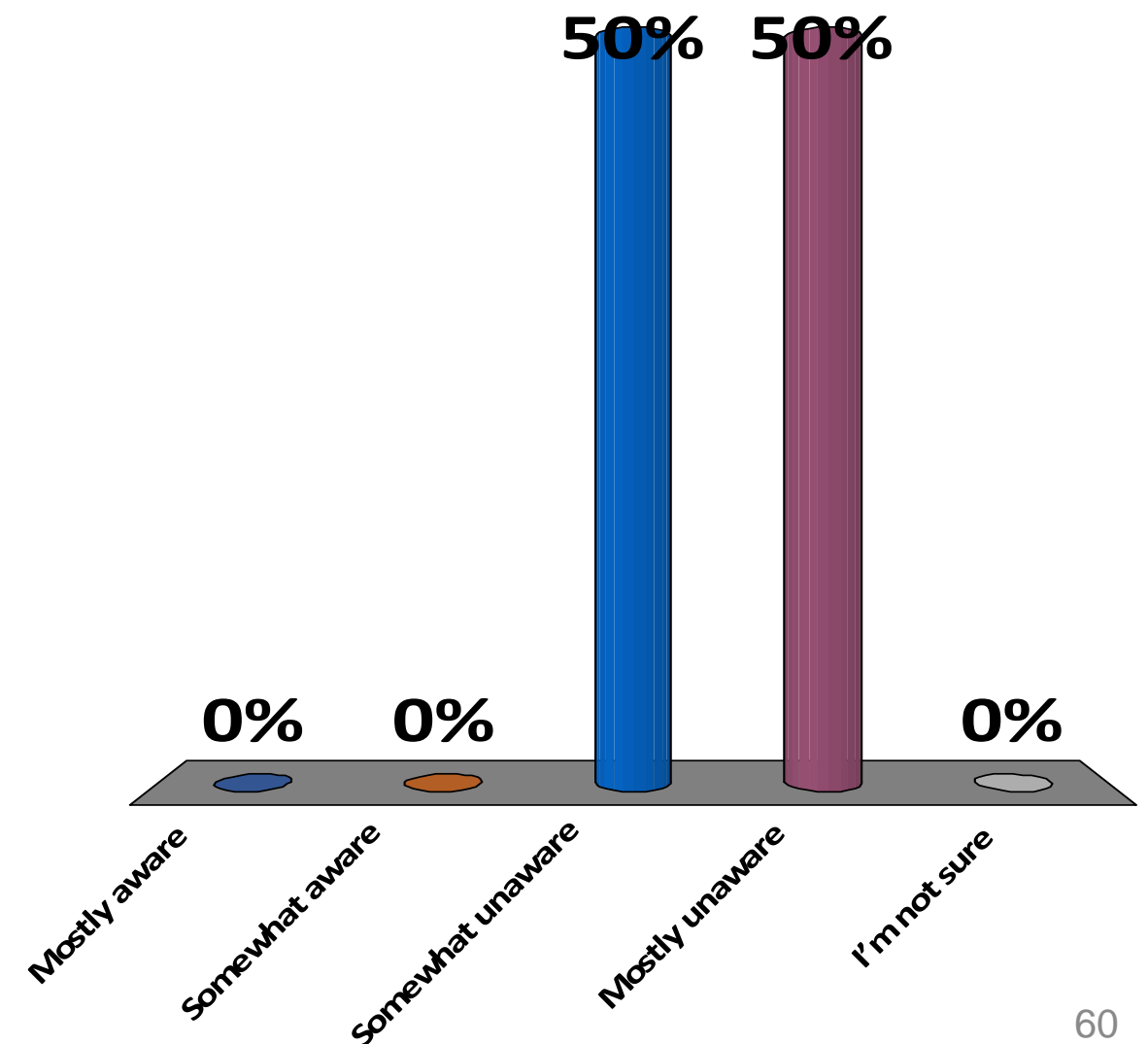
Do you think that the City is responsive in addressing stormwater pollution events?

1. Very responsive
2. Somewhat responsive
3. Somewhat unresponsive
4. Very unresponsive
5. I'm not sure



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

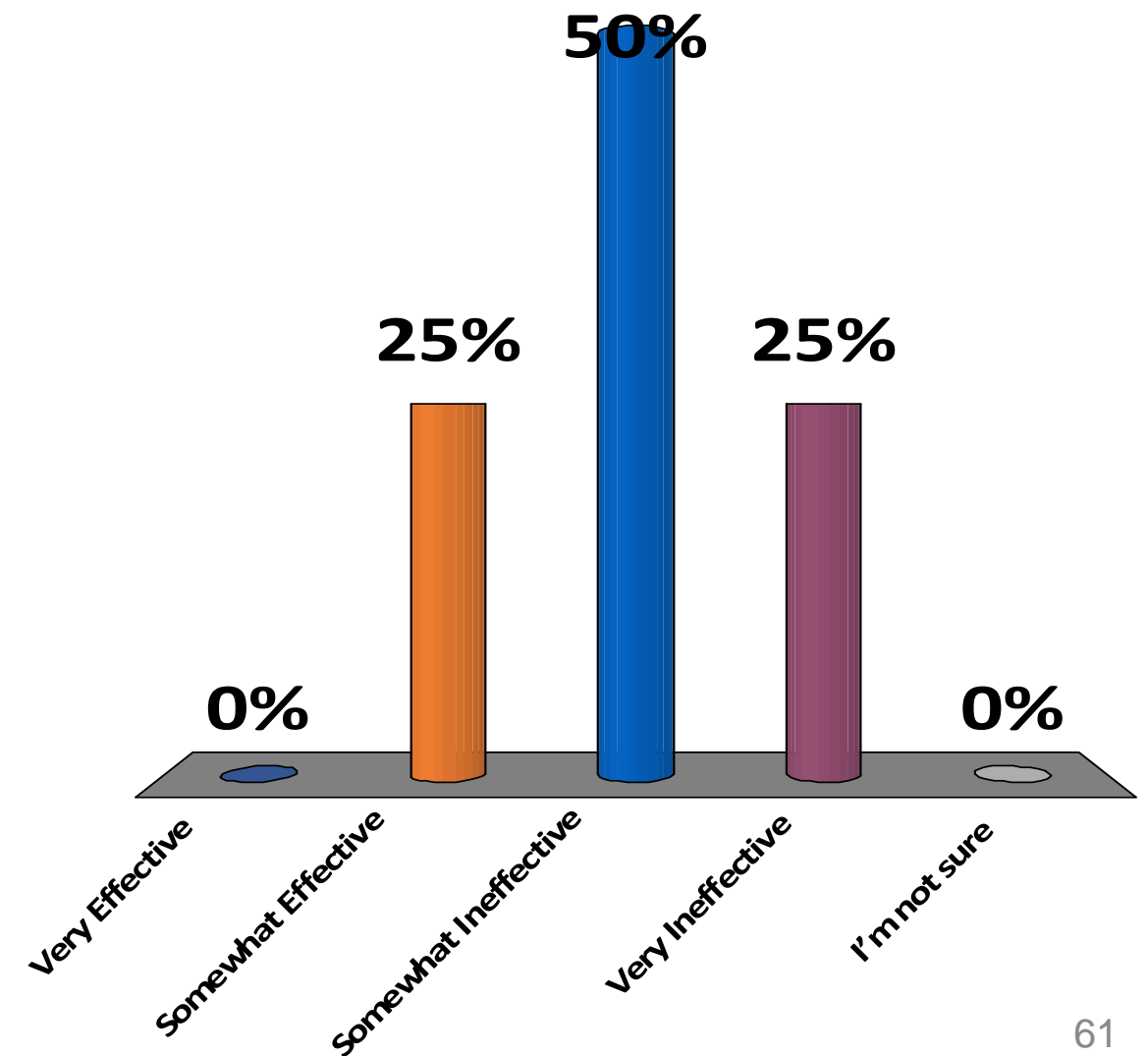
1. Mostly aware
2. Somewhat aware
3. Somewhat unaware
4. Mostly unaware
5. I'm not sure



Surface Water Quality

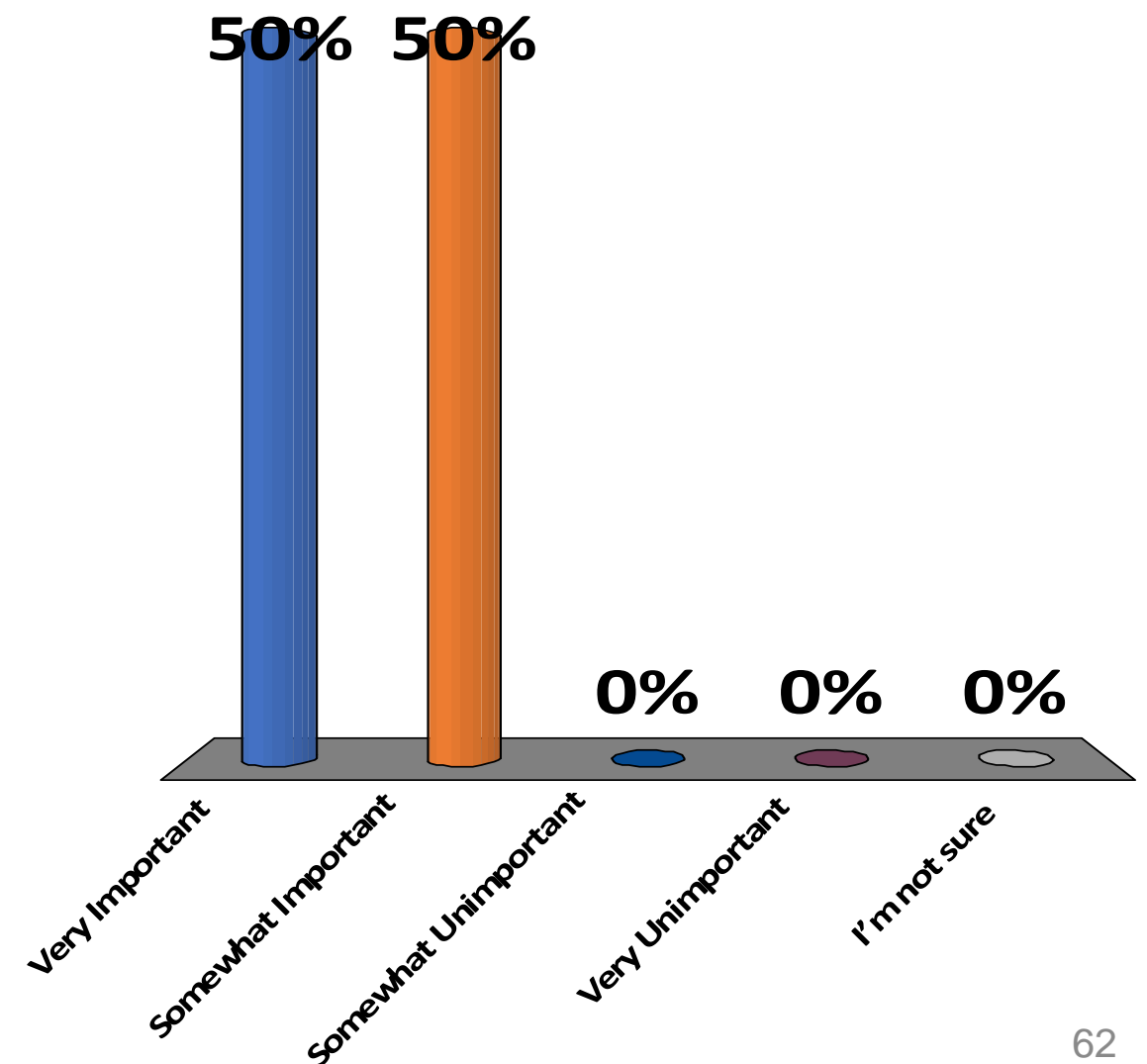
How effective are the City's outreach efforts at informing communities about stormwater pollution prevention activities?

- 1. Very Effective
- 2. Somewhat Effective
- 3. Somewhat Ineffective
- 4. Very Ineffective
- 5. I'm not sure



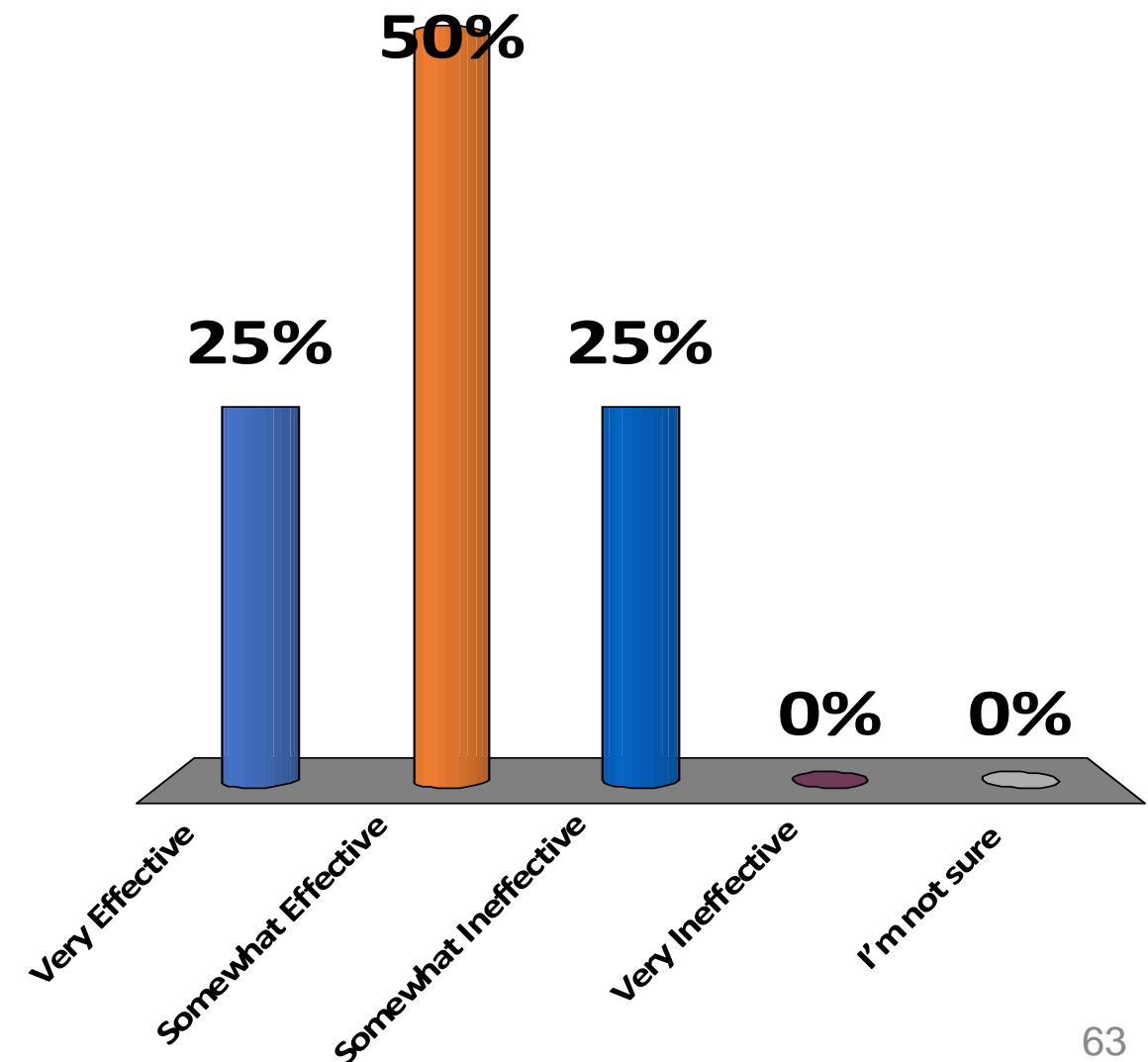
How important is it to Fort Worth residents to be able to use surface waters for recreation (fishing, swimming, kayaking, etc.)?

1. Very Important
2. Somewhat Important
3. Somewhat Unimportant
4. Very Unimportant
5. I'm not sure



How effective do you feel a citizen scientist program would be at monitoring pollutants in surface water?

1. Very Effective
2. Somewhat Effective
3. Somewhat Ineffective
4. Very Ineffective
5. I'm not sure



Surface Water Quality Program Development: General Input

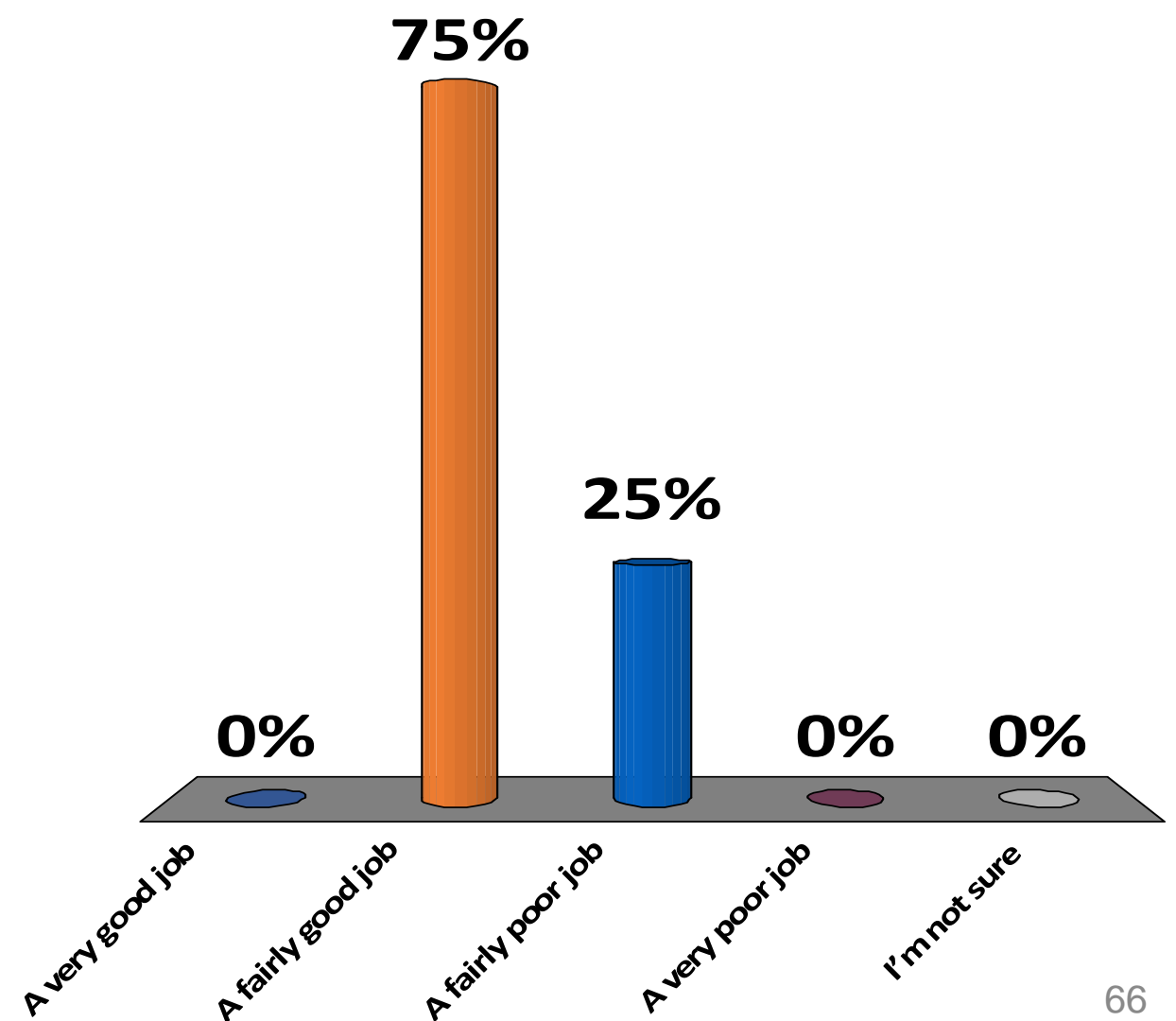
What types of programs or projects would you like to see the City implement?

General Survey – Follow-up Questions

We are going to ask you three (3) questions as a follow up to yesterday's introductory survey to see how the answers compare based upon the information we have provided.

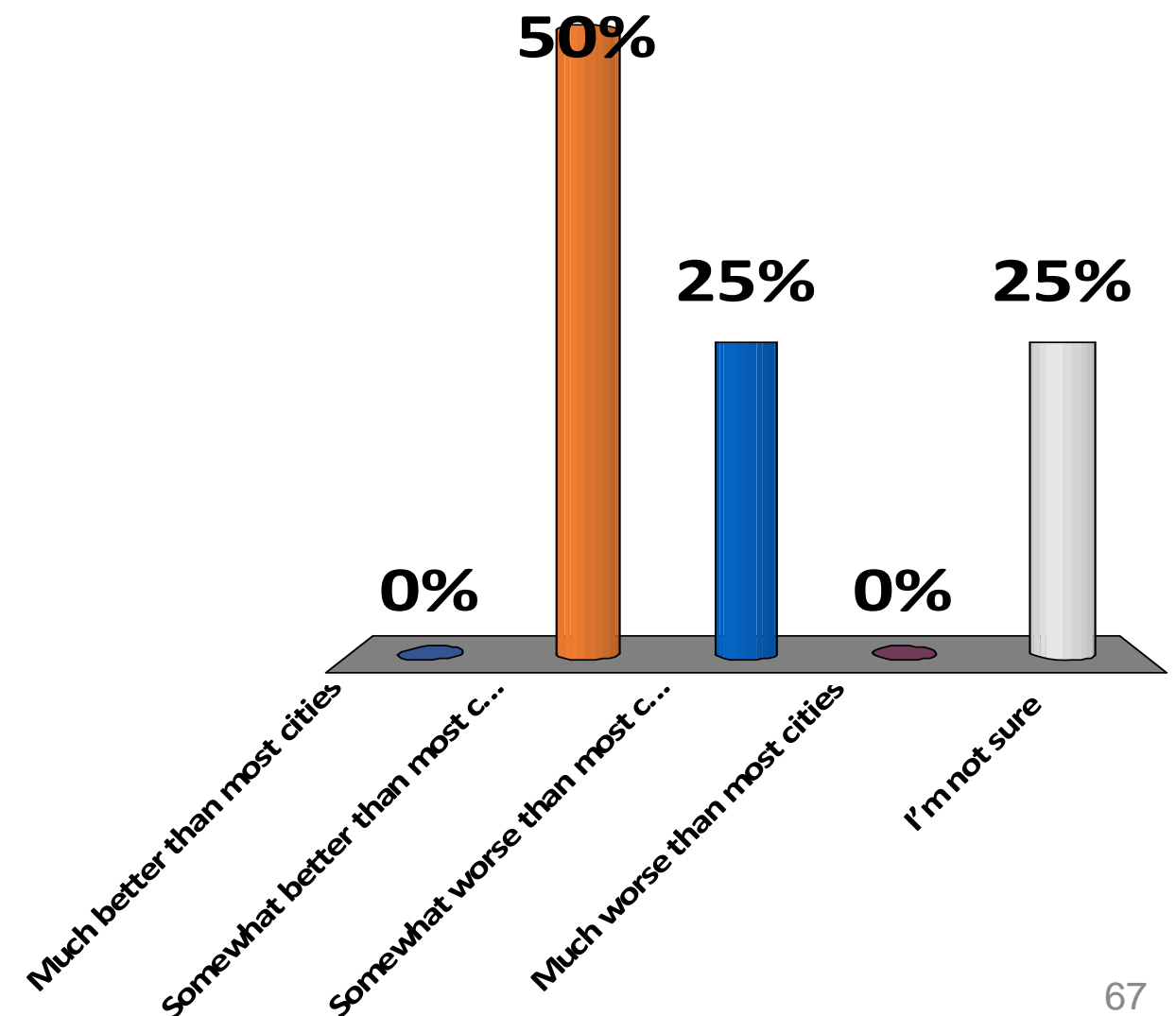
Overall, how is the City of Fort Worth doing in protecting the city's environmental resources and reducing pollution (e.g., litter, polluted sites, etc.)?

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



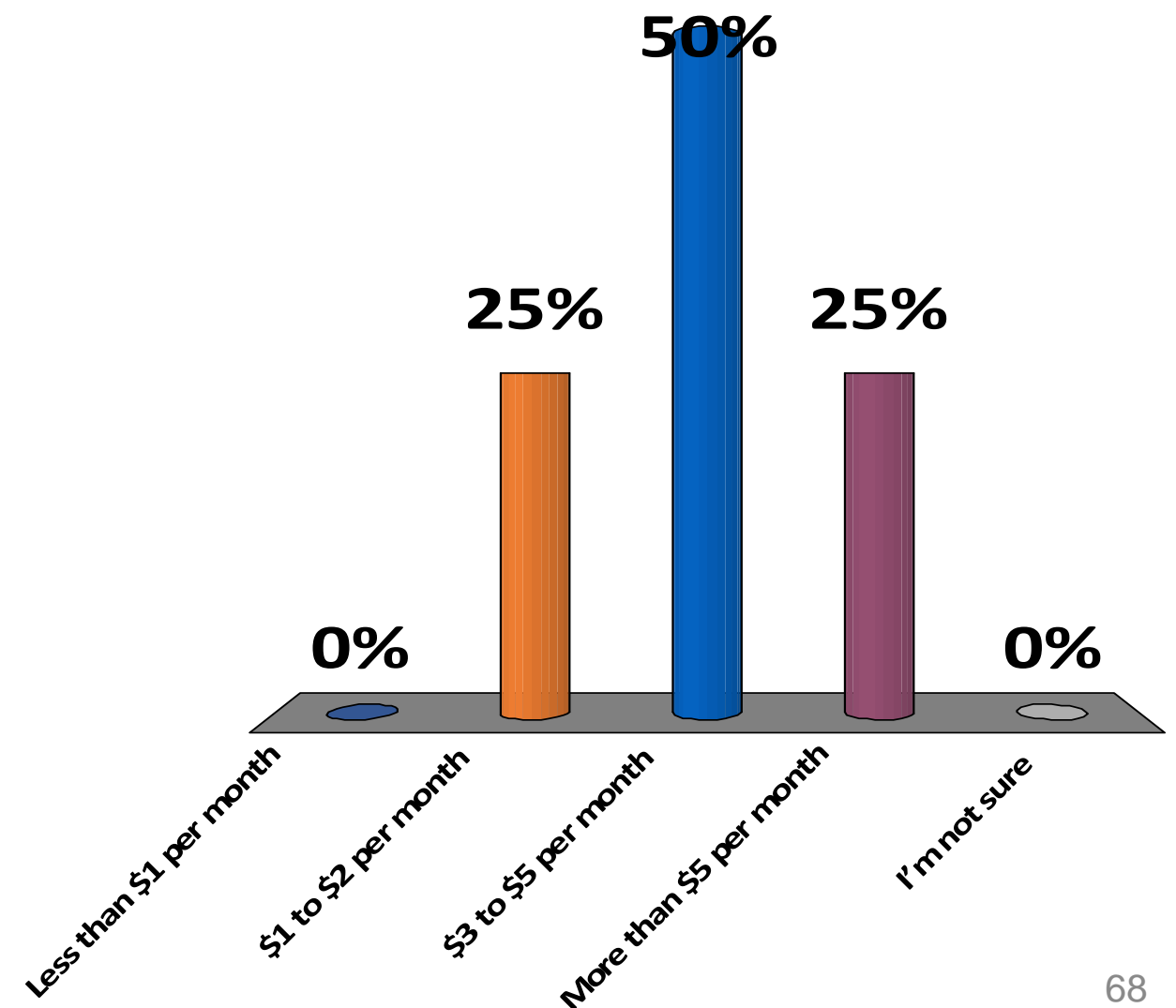
Overall, how do you think Fort Worth's environmental programs compare with other cities?

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



Next Steps

- 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!

Open for Public Comments

