

WHITE ROCK LAKE DREDGING FEASIBILITY STUDY

Community Meeting #1 – January 28, 2020



Dallas Park & Recreation



dallas water utilities
city of dallas

BA

BROWNSTONE ASSOCIATE



1. Provide maintenance updates from Dallas Water Utilities
2. Provide background and objectives of dredging feasibility study
- 3. *Gather input from community and user groups***

Meeting Information
Purpose of Meeting



White Rock Lake Dam Maintenance Improvements

- Decommission existing and install new piezometers
- Repair existing upstream (lake-side) dam slope protection and hardening
- Harden downstream earthen slope
- Repair dam spillway concrete cracking and spalling



Dallas Water Utilities Announcements



White Rock Lake Dam Maintenance Improvements

- Inspect existing stoplogs for repair or replacement
- Manage vegetation at multiple locations
- Address 2019 inspection observations (minor changes since previous 5-yr inspection)
 - **Does not address increase of spillway hydraulic capacity**
- Timeline:
 - Spring 2020 - Advertise Construction
 - Winter 2020/2021 – Begin Construction
 - Fall 2022 - Complete Construction*

*weather dependent



Dallas Water Utilities Announcements



Background Information



What is a Feasibility Study?

Feasibility studies are conducted primarily to determine:

- Key goals of the project.
- Alternative solutions and associated costs.
- Potential project roadblocks (risk factors).
- Project requirements and expected timeline.

Background Feasibility Study

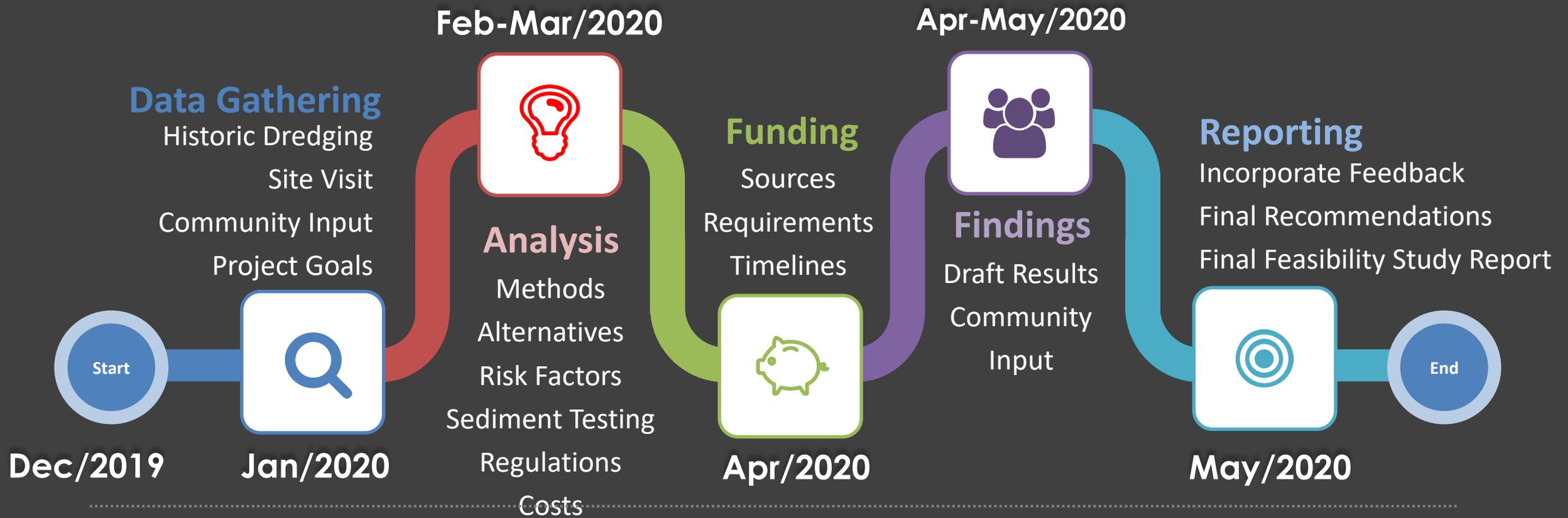


- Dallas Park & Recreation Department partnering with Dallas Water Utilities on high-level feasibility study including:
 - Approaches for dredging
 - Regulatory requirements for dredging
 - Costs associated with design and dredging activities
 - Potential funding sources for dredging projects
- Freese and Nichols hired as engineering consultant
- Brownstone providing environmental consulting

Background

Feasibility Study





Timeline

Feasibility Study





Summary

Feasibility Study



1. Presentation with interactive survey questions (1 hour)
2. “Come & Go” feedback stations (1 hour)

Meeting Information

Format of Meeting



- Online Google Form
- Comment Cards
- Interactive Survey*
- Feedback Stations



Meeting Information

Opportunities for Feedback

** Interactive Survey Results are from a small population sample and cannot be considered statistically significant.*



- Online Google Form
tinyurl.com/white-rock-dredging

- Form will be active until
February 11, 2020

Meeting Information

Opportunities for Feedback

White Rock Lake Dredging Feasibility Study Community & User Group Feedback Form

* Required

White Rock Lake



- Comment Cards

White Rock Lake Dredging Feasibility Study
Community Meeting | January 28, 2020
Comment Card

Name: _____ E-Mail: _____

If you have any concerns or comments about the project, please let us know in the box below. Your input is valuable!

Can't stay? No problem! Please mail your comment card to: Dallas Water Utilities | Attn: David Phan
320 E. Jefferson Blvd., Room 312 | Dallas, TX 75203



The form area contains the logos for Dallas Water Utilities (City of Dallas) and Dallas Park & Recreation.

Meeting Information

Opportunities for Feedback



- Interactive Survey
- Uses Your Smartphone
- Results* Displayed Real-Time



Meeting Information

What is Mentimeter?

** Interactive Survey Results are from a small population sample and cannot be considered statistically significant.*



QR Code

- Go to www.menti.com
 - Use code **75 56 46**
- or
- Scan QR code (on screen and on FAQ card)



Meeting Information

What is Mentimeter?

** Interactive Survey Results are from a small population sample and cannot be considered statistically significant.*



Go to www.menti.com and use the code 75 56 46

i

Mentimeter

Test Question: What is your favorite lake in Dallas?



0



- Feedback Stations
- City of Dallas, FNI, and Brownstone staff available to answer questions



Meeting Information

Opportunities for Feedback



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Mentimeter Information

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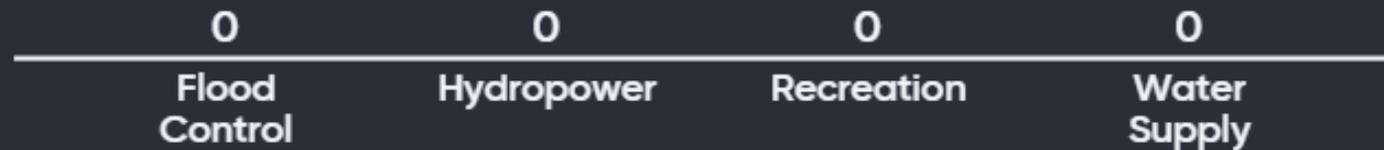


Go to www.menti.com and use the code 75 56 46

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 Mentimeter

Question 1: What is the primary use of White Rock Lake?



 0

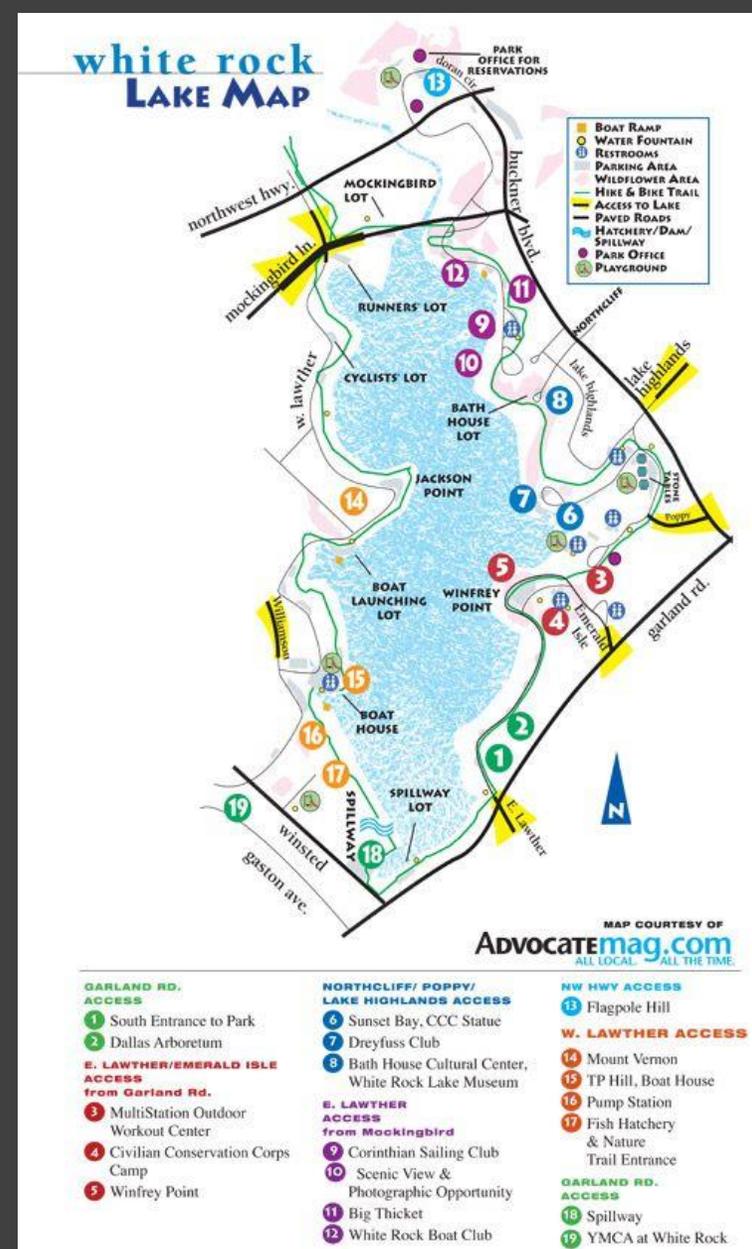


Recreational Lake

- 9.33-mile hike and bike trail
- Picnic areas
- Rental facilities: Winfrey Point and Big Thicket
- Fishing piers
- Sailing and rowing facilities
- Meeting and event facility: White Rock Bath House Cultural Center
- Dallas Arboretum
- Audubon Society-designated bird watching area and wetlands site

Background

Use of White Rock Lake Park



Go to www.menti.com and use the code 75 56 46

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 Mentimeter

Question 2: What is your primary use of the Lake?

0

Business Owner

0

Cultural/Entertainment
Activities

0

Cycling

0

Hiking/Jogging

0

Home Owner

0

Passive Recreation (ex.
bird watching, dog park)

0

Rowing and/or Kayaking

0

Sailing

 0



Go to www.menti.com and use the code 75 56 46

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 Mentimeter

Question 3: How often do you visit White Rock Lake?



 0



Question 4: What is your preferred time of year to use the lake?

0
Summer

0
Fall

0
Winter

0
Spring

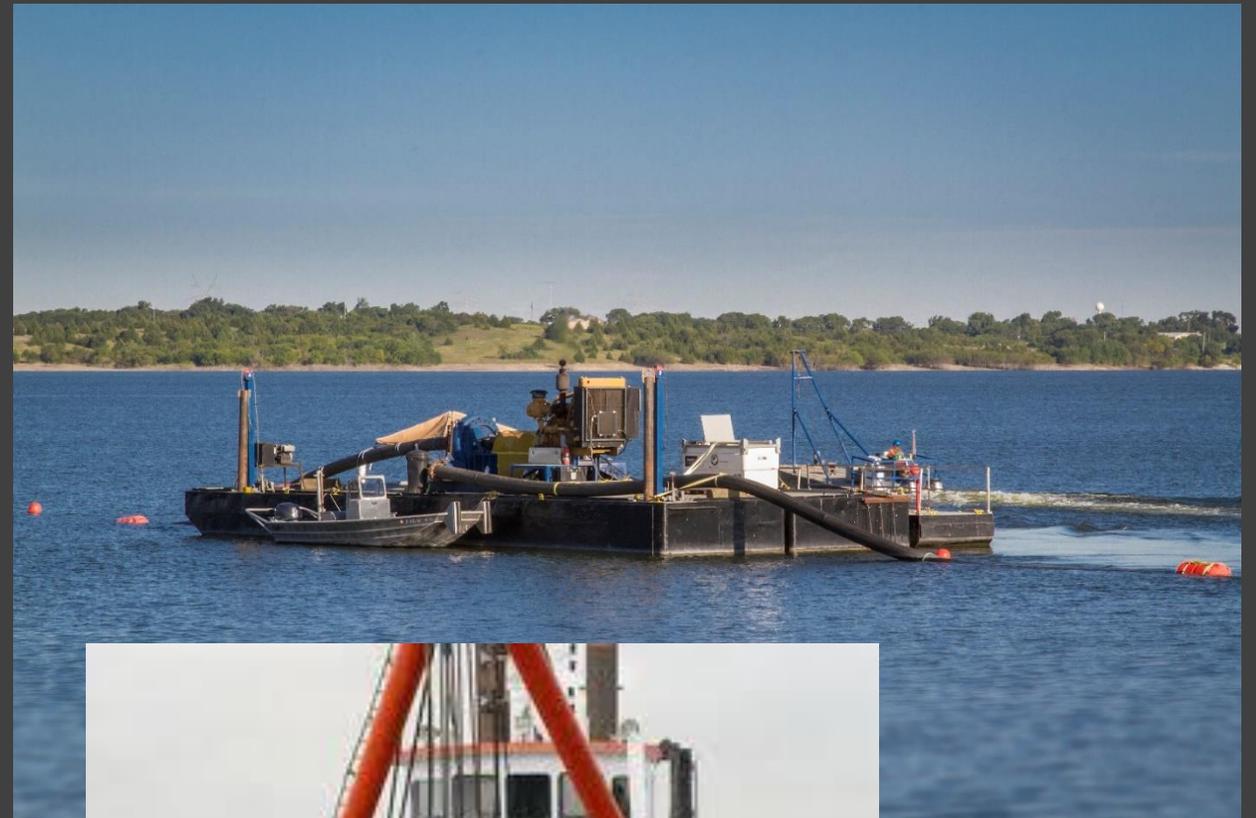
0
Year-round

Question 2: What is your primary use of the Lake?

- Business Owner
- Cultural/Entertainment Activities
- Cycling
- Hiking/Jogging
- Home Owner
- Passive Recreation (ex. bird watching, dog park)
- Rowing and/or Kayaking
- Sailing



- Removing sediment from lake
- “Hydraulic Dredging” for White Rock Lake would use cutter suction head pump
- Restores water depth



Background

What is Dredging?



- Cost
- Noise
- Smell
- Water Quality
- Sediment Dewatering & Disposal
- Site Disturbances
- Temporary Closures
- Suspended Sediment
- Wildlife Impacts



Background

Construction Considerations



- Improve conditions for water activities
- Water quality impacts
- Improve shoreline maintenance (i.e. trash and debris)
- Project will not provide flood control benefits



Background

Dredging Benefits





History of White Rock Lake Dredging



1937



1955-56



1974

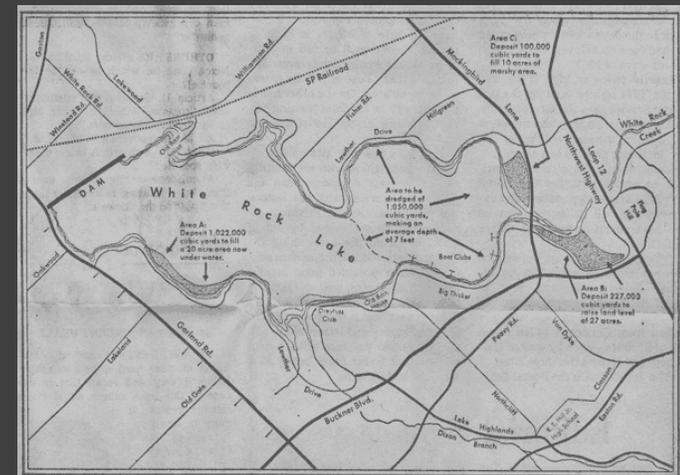


1996-98



History of White Rock Lake Dredging

- 1937
 - Completed in 3.5 years
 - 400,000 cubic yards of sediment removed
 - 90 acres of land reclaimed
- 1955-1956
 - 15,000 cubic yards of sediment removed
- 1974
 - 1,350,000 cubic yards of sediment removed
 - Sediment used to rebuild marshy areas
 - Creation of Mockingbird Point



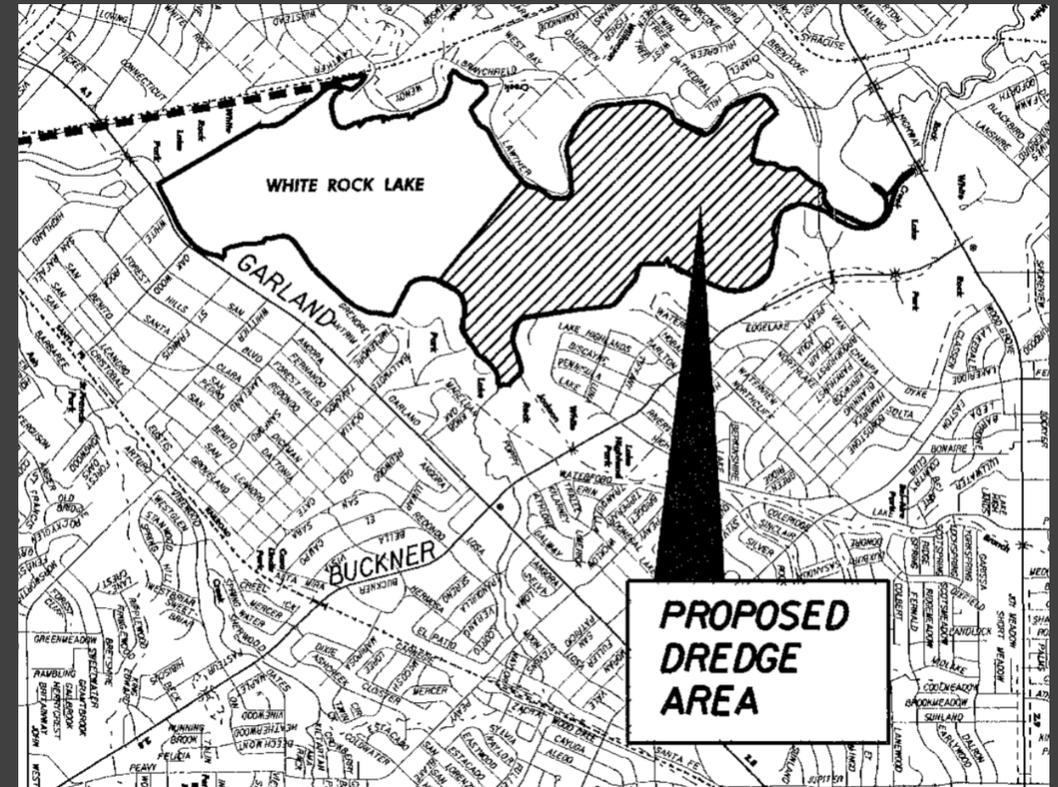


History of White Rock Lake Dredging



1996-98

- Last dredging completed in 1998
- Last study that preceded the dredging was in 1994
 - Study found that sediment impacted oxygen levels in the summer, which could threaten the fish population
- Approximately 3,000,000 cubic yards of sediment removed





1996-98



History of White Rock Lake Dredging

- Bond-Funded Project
 - 1995 Bond Funds - \$9M
 - DWU Revenue Bonds - \$9M
 - Reimbursed with stormwater revenues
- Cost savings realized when a landowner needed his gravel pit filled in Hutchins, Texas
 - Dredge boat pumped sediment from the bottom of the lake through 24-inch pipes straight into the pit for 9 months



Go to www.menti.com and use the code 75 56 46

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 Mentimeter

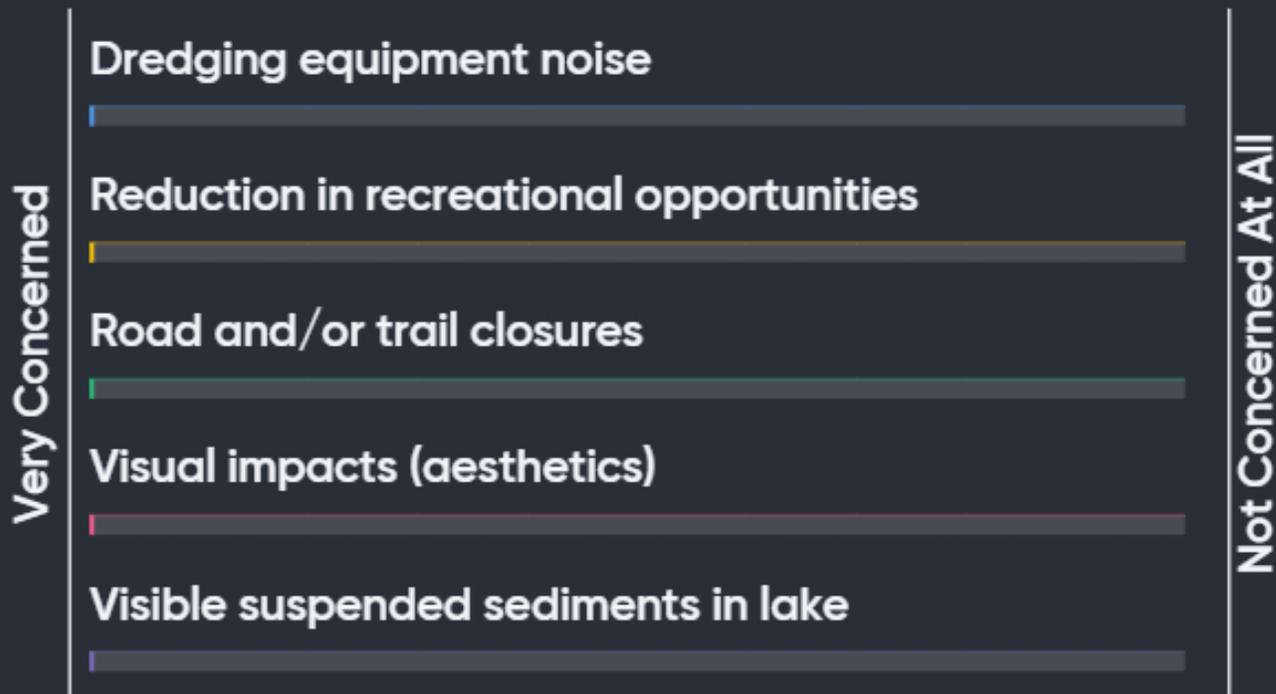
Question 5: What are your main concerns regarding lake dredging? (Please rank all in order of importance)

- 1st | Aesthetics Impacts
- 2nd | Business Impacts
- 3rd | Environmental Impacts
- 4th | Expenditure of Tax Dollars
- 5th | Recreation Impacts
- 6th | Water Quality Impacts

 0



Question 7: How concerned are you about the following impacts during dredging?



Go to www.menti.com and use the code 75 56 46

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 Mentimeter

Question 8: What are the most important goals of this dredging project? (Please rank all in order of importance)

- 1st Improving fish & wildlife habitat
- 2nd Improving lake aesthetics
- 3rd Providing for long-term lake maintenance
- 4th Restoring lake depth for recreation
- 5th Improving water quality

 0



Go to www.menti.com and use the code **75 56 46**

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The code lets your audience join the presentation. It expires in 8 days.

 Mentimeter

Question 9: At this preliminary point, do you agree or disagree with the following statements?

Strongly disagree

Dredging White Rock Lake is absolutely necessary.

Dredging White Rock Lake will mostly result in positive impacts.

Strongly agree

 0



Go to www.menti.com and use the code 75 56 46

Question 10: At this preliminary point, are you in favor of dredging White Rock Lake?

0
Strongly in Favor

0
Somewhat in Favor

0
Neutral

0
Somewhat Opposed

0
Strongly Opposed

Question 2: What is your primary use of the Lake?

- Business Owner
- Cultural/Entertainment Activities
- Cycling
- Hiking/Jogging
- Home Owner
- Passive Recreation (ex. bird watching, dog park)
- Rowing and/or Kayaking
- Sailing

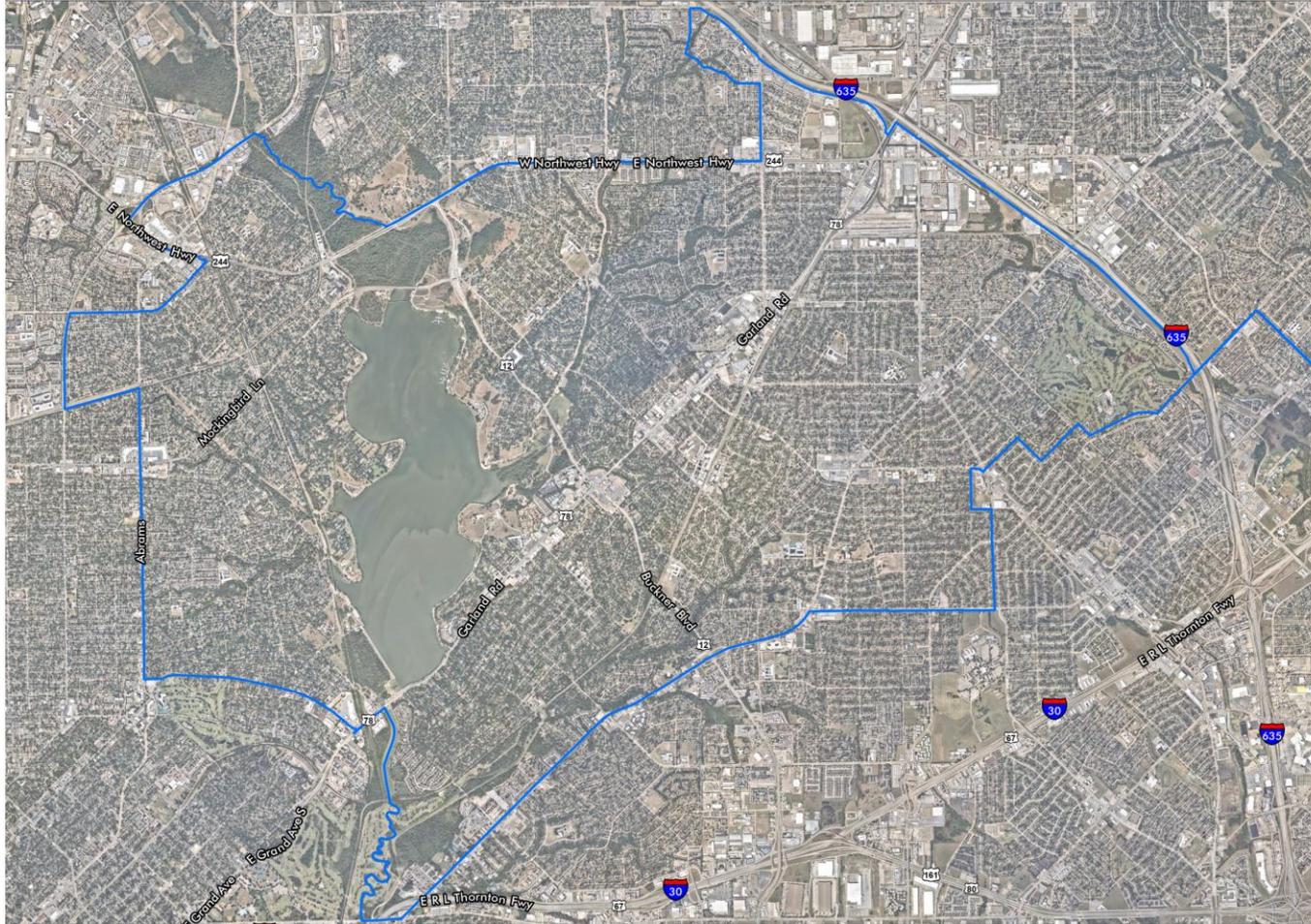


Feedback Stations

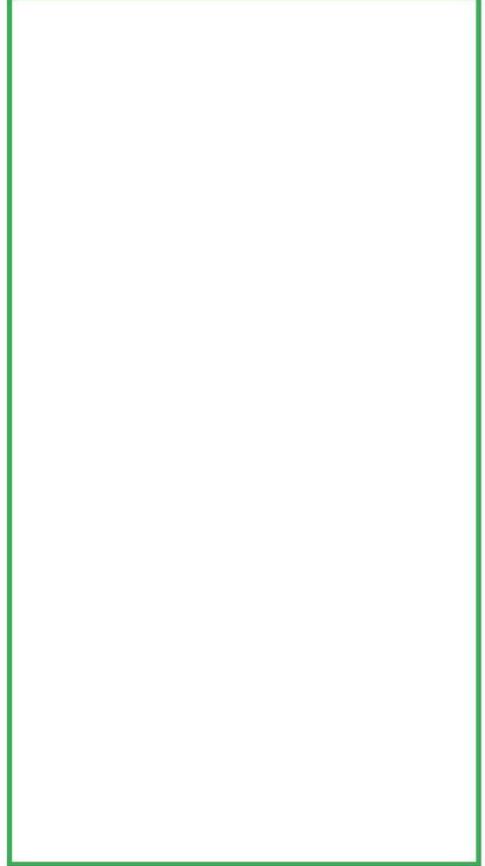


Dallas Parks and Recreation WHERE DO YOU LIVE?

PLACE A STICKER ON THE MAP WHERE YOU LIVE



PLACE A STICKER IN THE BOX
BELOW IF YOU LIVE OUTSIDE THE
AREA SHOWN ON THE MAP



Dallas Parks and Recreation

WHAT AREAS OF THE LAKE DO YOU COMMONLY VISIT?

SELECT ONE OR MORE AREAS YOU VISIT BY PLACING A STICKER IN THE APPROPRIATE BOX BELOW

WINFREY POINT



SUNSET BAY/PELICAN POINT



BIG THICKET



DREYFUS CLUB



BATH HOUSE CULTURAL CENTER



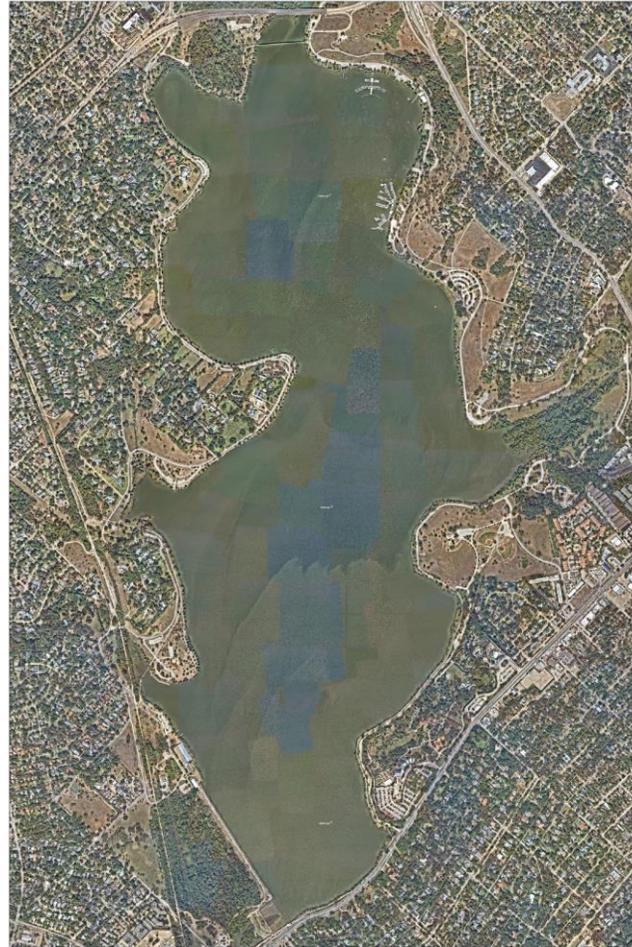
CORINTHIAN SAILING CLUB



Dallas Parks and Recreation **WHERE IS DREDGING APPROPRIATE?**

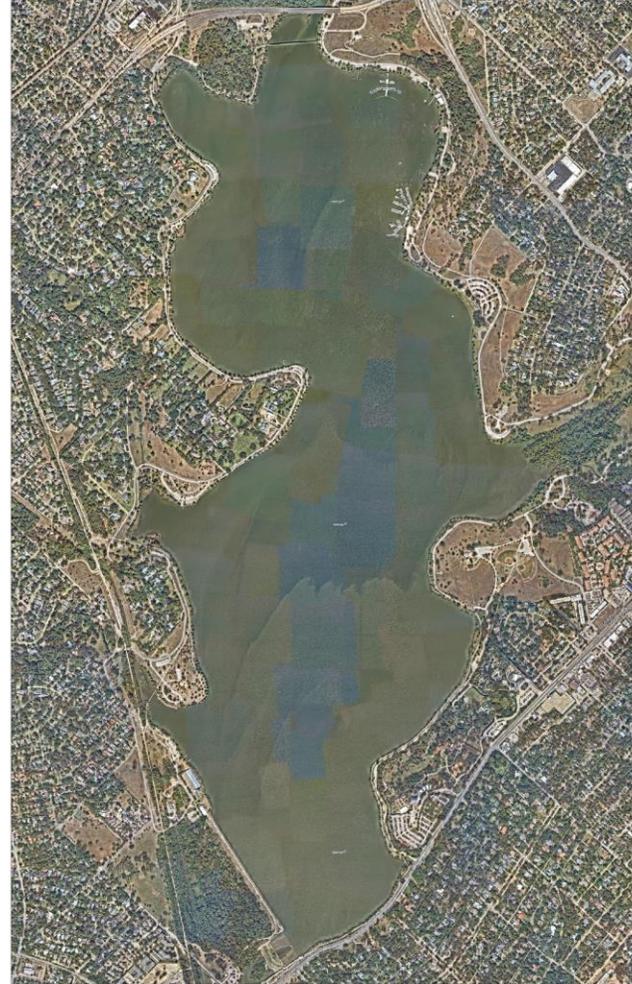
PLACE A COLOR COORDINATED STICKER ON THE MAP WHERE...

DREDGING IS APPROPRIATE DREDGING IS NOT APPROPRIATE



Dallas Parks and Recreation
HELP US IDENTIFY AREAS OF CONCERN

PLACE A STICKER ON THE MAP TO IDENTIFY AREAS OF CONCERN



Dallas Parks and Recreation

WHAT DO YOU DO WHEN YOU VISIT THE LAKE?

PICK YOUR ACTIVITIES BY PLACING A STICKER IN THE APPROPRIATE BOX BELOW

BOATING & SAILING	CYCLING	FISHING	ROWING
RUNNING & WALKING	SIGHTSEEING	BIRD WATCHING	DOG PARK & OTHER PARK FACILITIES

IF YOU USE THE LAKE FOR OTHER PURPOSES PLEASE TELL US IN THE BOX BELOW

