Larry's Toolbox: 15% saves $400 Million

NORTH FORT BEND
WATER AUTHORITY

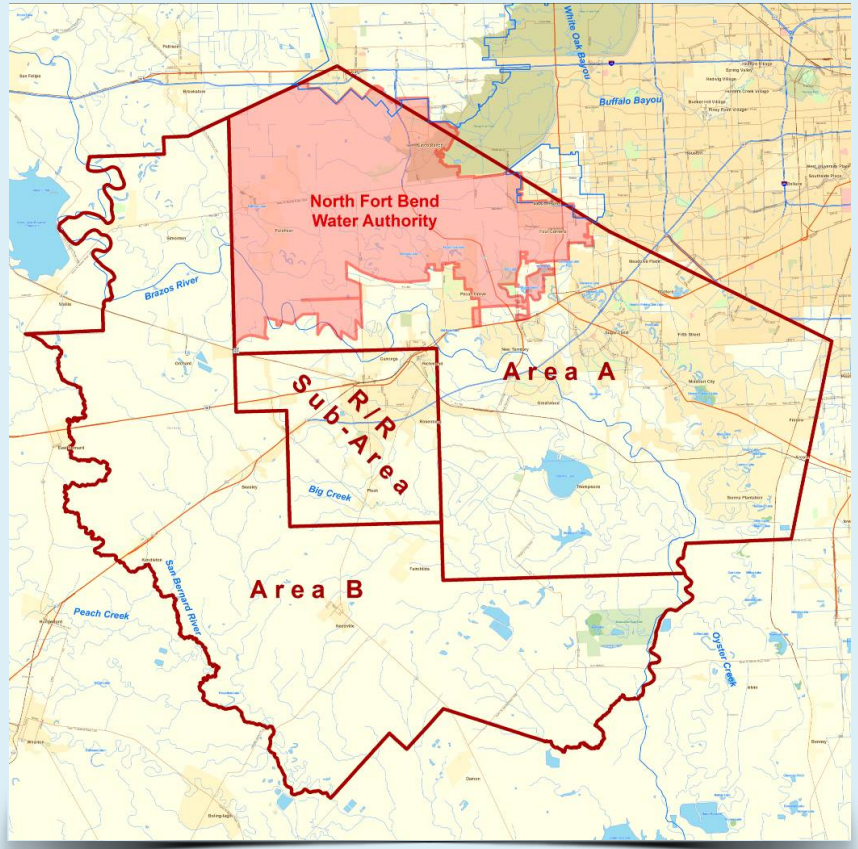
Who is the North Fort Bend Water Authority?

- **Fort Bend Subsidence District 2003 Regulatory Plan**
- **Area A requirements:**

  Submitted Groundwater Reduction Plan: **2008**

  30% Groundwater Reduction: **2014**

  60% Groundwater Reduction : **2025**
- **The Authority was created by the 79th Texas Legislature, with the passage of Senate Bill 1798 in May 2005.**

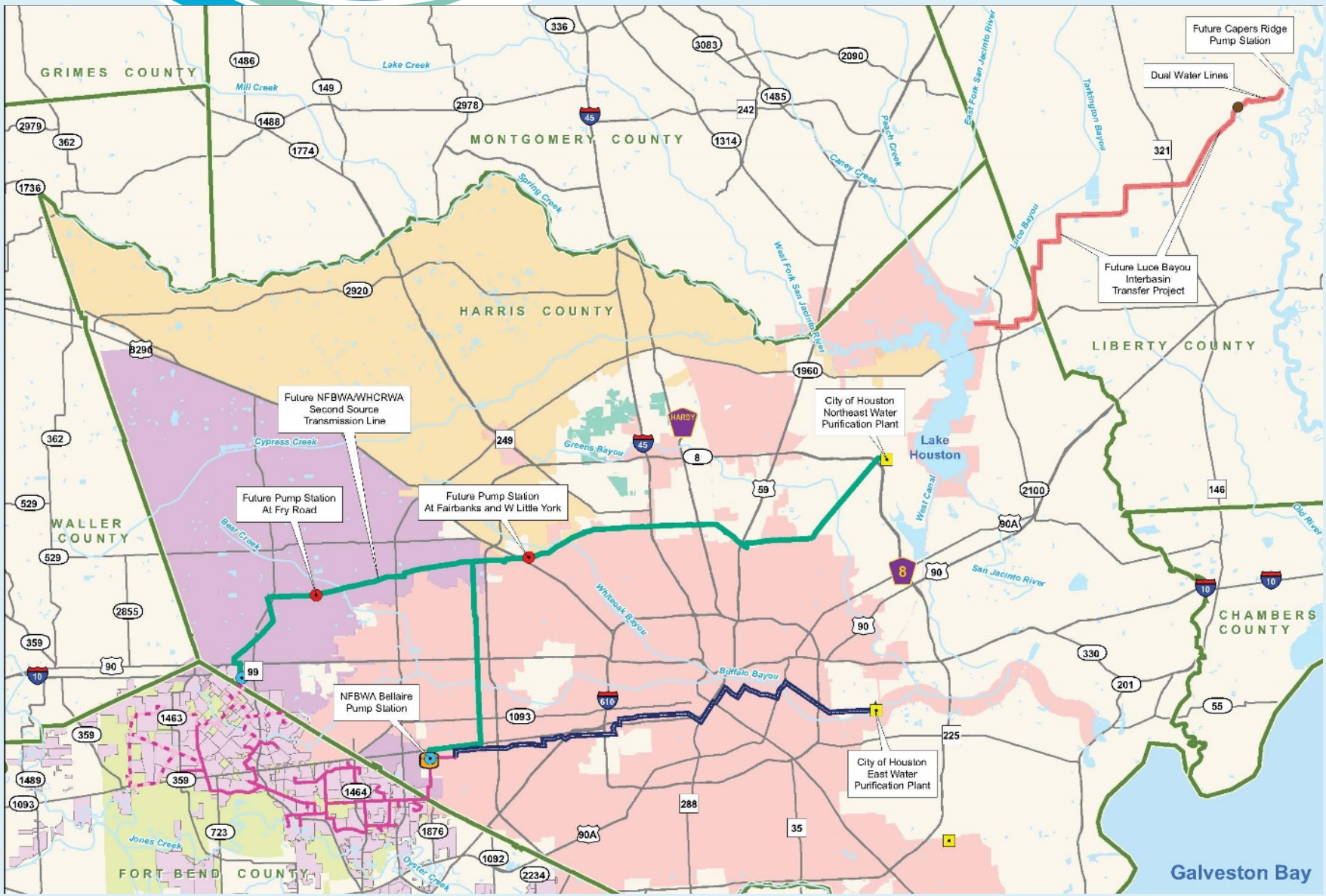


Why Should We Conserve?

NFBWA Projected Population and Demands

Year	Population	Total Water Demand (MGD)	Minimum Surface Water Demand (MGD)
2005	107,000	–	–
2013	202,600	35.5	10.7 (30%)
2020	352,200	63.1	18.9 (30%)
2025	433,100	78.2	46.9 (60%)
2035	582,700	106.4	63.8 (60%)
2045	651,400	120.0	72.0 (60%)

Why Should We Conserve?



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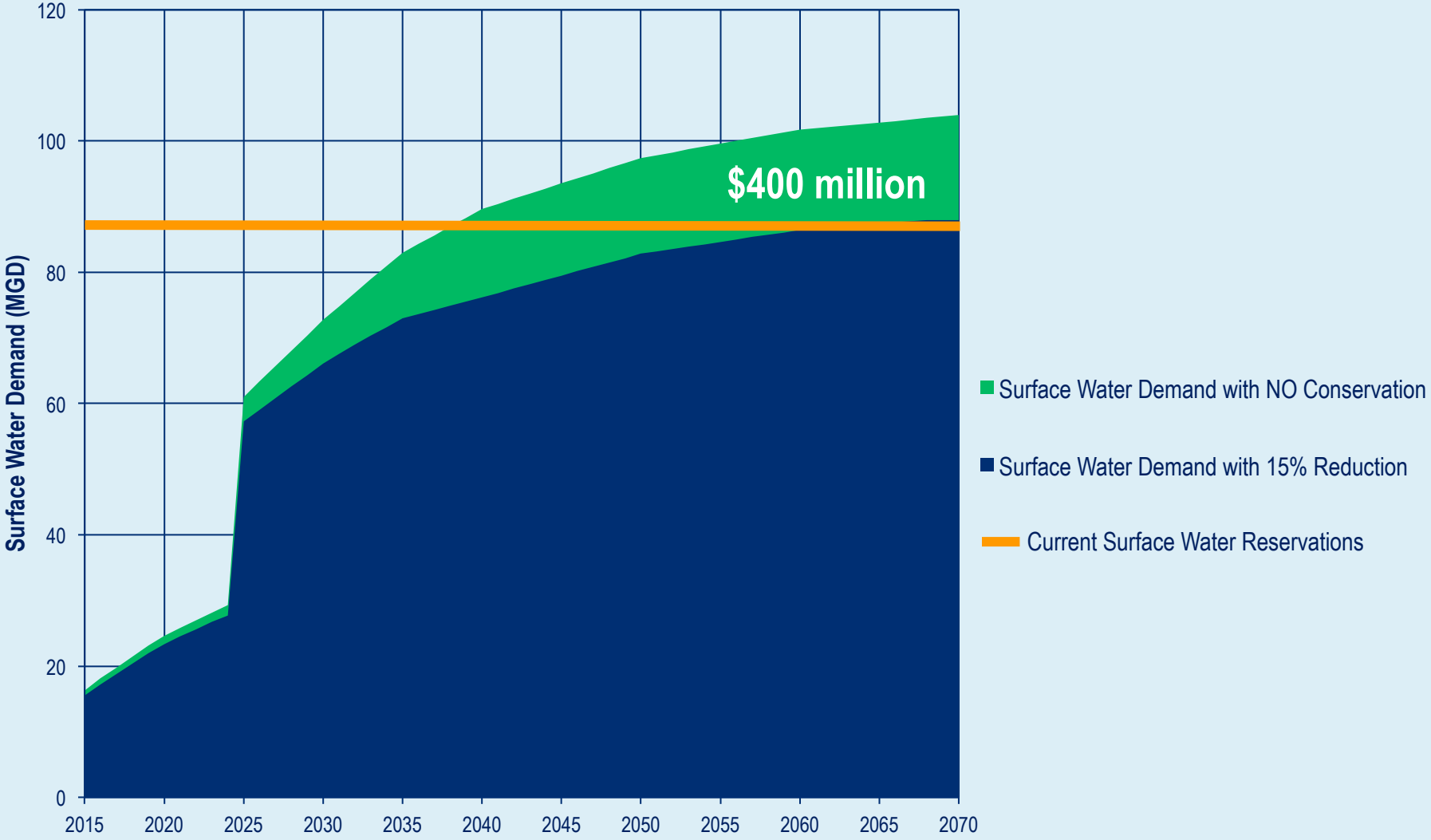


Goals

Communications Flow To Residents

NORTH FORT BEND WATER AUTHORITY

MUD Consultants

Attorneys

Engineers

Operators

Residents

MUD Directors

Communications

MUD Consultants

Attorneys

Engineers

Operators

NORTH FORT BEND WATER AUTHORITY

MUD Directors

Residents

Media Campaign

Larry_Final_720.mov

Conservation Committee

Vision:

To promote efficient water usage and ensure water is available for generations to come.

Goals:

1. Create communication between Authority and participants
2. Create a 5-year implementation plan

Thank you Conservation Committee!

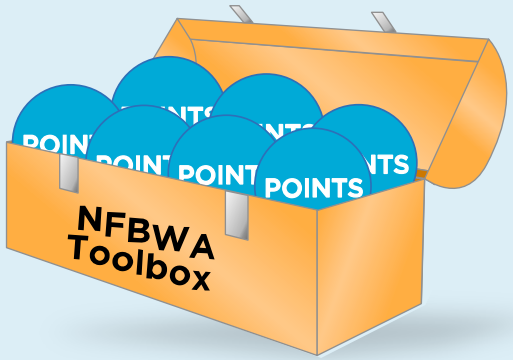
David Glunt – HFBMUD 5
George Nilsson – Cinco SW MUD 1
Jennifer Goodwin – Cornerstones
Pat Hebert- NFBWA
Randy Carter – FBMUD 142
Rebecca Marcucci – MDS
Rosanne Burgess – Big Oaks MUD
Shariq Ghani – FBMUD 122
Susan Ruske – FBMUD 35
Anna Agnew – Cinco MUD 7
Robert Tomlinson – Kingsbridge MUD
Tim Lawrence – Cinco MUD 1

Bill Lyle – FBMUD 57
Bob Patton - NFBWA
John Bastawrous – FBMUD 124
Paula Bays – FBMUD 124
Richard Stolleis – FBMUD 146
Rudolph Ammer – FBMUD 37
Tajana Mesic – City of Fulshear
Dano Lozano – Cinco MUD 8
Elizabeth Reeves – Severn Trent
Patrick Carlson – Cinco MUD 14
Steven Talecki – Cornerstones MUD
Wade Morgan – Grand Lakes MUD 4

NFBWA Toolbox

- Free residential irrigation evaluations
- Financial incentives for residential irrigation systems repairs
- Notification to high-water users
- HOA irrigation systems evaluations
- HOA irrigation systems water budgets
- Effective tiered water rates
- Rebates for residential rain barrels
- Irrigation installation guidelines
- Conservation information

7 points = 10¢ per 1,000 gallons



Resident Irrigation System Evaluation

- Resident irrigation system evaluations performed by licensed irrigators
  - $15 incentive provided to residents
  - MUDs pay $32.50 per evaluation, and Authority pays $32.50
  - Authority pays the administrative fee
- Authority will provide bill inserts that must be mailed to residents
- This program is worth 2 points.
  - Goal: 2% of all residential connections must receive an evaluation

Resident Irrigation System Upgrades

- Upgrades are are eligible for a 50% rebate, up to $200.
  - Participant funds the rebates
- Authority will provide the rebate form and list of approved upgrades
- This program is worth 3 points
  - Goal: Must distribute $600 in rebates

High Water User Notification

- The participant will notify residents who are the top water users
  - Set a gallon threshold or
  - Percentage to designate top users
- The Authority will provide a form letter for participants to use
- Participant must provide usage for the high users
- This program is worth 2 points
  - Goal: Must provide proof that monthly notifications were sent

Conservation Information

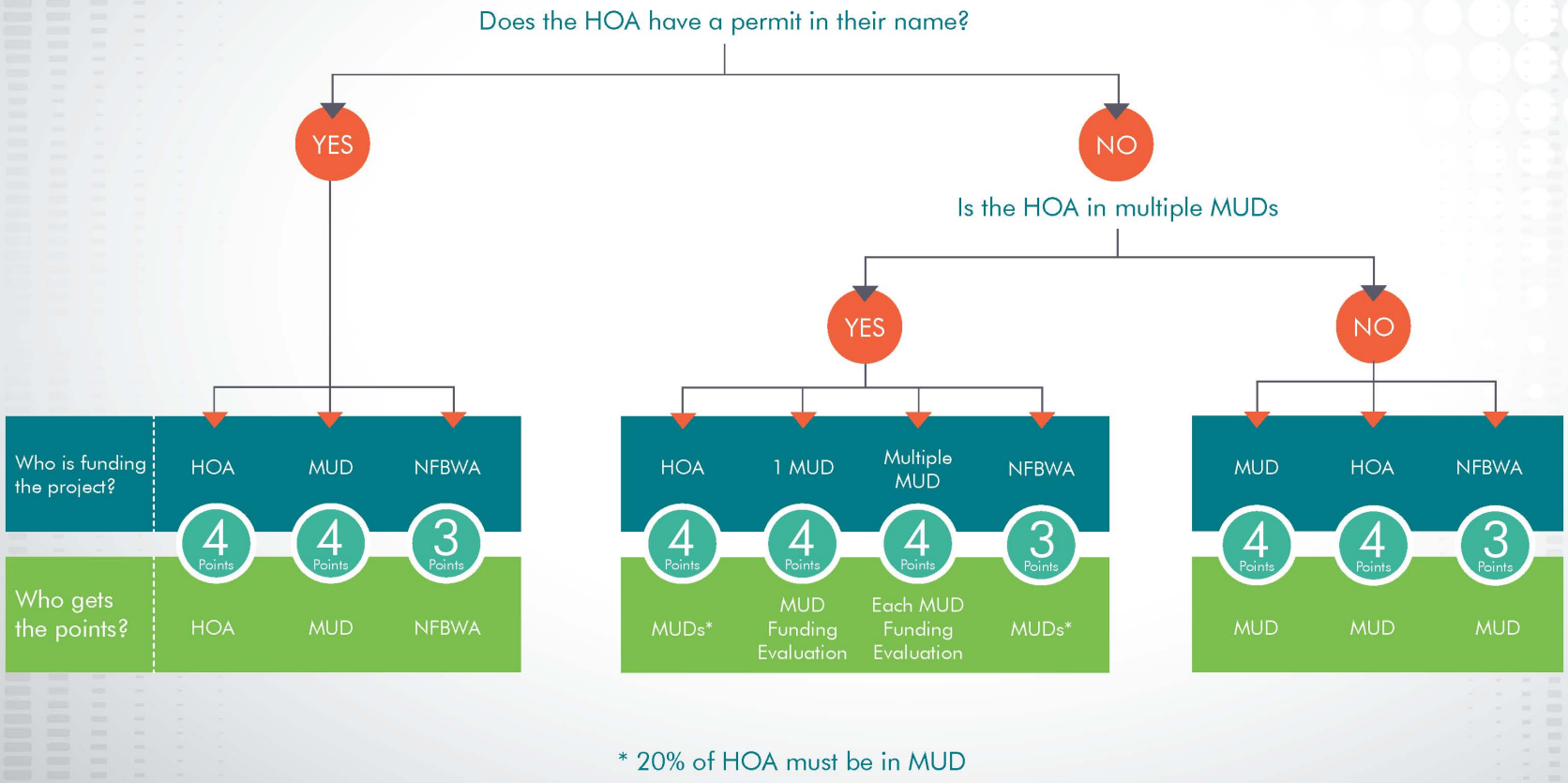
- The Authority will provide conservation information for the participant to provide to residents.
  - Post information to website, social media, newsletter, etc.
  - Print residents monthly usage history on water bills
- This program is worth 1 point
  - Goal: Provide proof that the information was distributed to residents

HOA and Golf Course Irrigation System Evaluations

- The Authority will provide a free irrigation system evaluation for up to 5 HOAs or golf courses each year
- The Authority will provide approved list of vendors and items evaluation needs to include
- HOA or golf course must provide monthly historical data and monthly data following the evaluation
- This program is worth 3-4 points (see flow chart in guide document)
  - Goal: Provide proof of evaluation

HOA Irrigation **EVALUATION**

Who Gets The Points



* 20% of HOA must be in MUD

HOA Irrigation System Water Budget

- The Authority will provide a free water budget for up to 10 HOAs each year
- The Authority will provide approved list of vendors and items water budget needs to take in to account
- HOA must provide monthly historical data and monthly data following the water budget
- This program is worth 2-3 points (see flow chart in guide document)
  - Goal: Provide proof of completed water budget

Effective Water Rates

- The participant will evaluate and set an effective tiered rate
  - Use AWWA's M1 Chapter 4 and Appendix C or AWE's forecasting model
- The participant must provide monthly historical data and monthly data following implementation of the new rate
- This program is worth 3 points
  - Goal: Must be effective and provide proof that new rate was implemented

Rain Barrels

- Rebates will be offered to residents s
  - Must be HOA approved
- The Authority will provide the rebate form
- The participant must fund the rebates
- This program is worth 2 points
  - Goal: A minimum of 3 rebates

Irrigation Permits

- Participant will choose to implement TCEQ Chapter 344
- The Authority will produce the ordinance and contract with a consultant to administer the permits and inspections
- This program is worth 2-5
  - Goal: This program must be implemented

Point Matrix

Initiative	Possible Points
W.I.S.E Guys	2
Resident Irrigation System Upgrades	3
High Water User Notification	2
Conservation Information	1
HOA Irrigation System Evaluations	3-4
HOA Irrigation System Water Budget	2-3
Water Rates	3
Rain Barrels	2
Irrigation Permits	2-5
TOTAL	**20-25**

Reuse/Alternative Water

- **$0.75** per **1,000** gallon credit with a repayment term
- Authority will finance the project and offer a reduced rate

NORTH FORT BEND WATER AUTHORITY

For more information contact
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