



SCOPE OF WORK COMMITTEE MEETING

10:00 A.M. – November 15, 2023

BRAZOS RIVER AUTHORITY

4600 COBBS DR., WACO, TX 76710



- 1. CALL MEETING TO ORDER**
- 2. INVOCATION**
- 3. NOTICE OF MEETING**
- 4. ATTENDANCE AND ANNOUNCEMENTS**
- 5. PUBLIC INPUT** (limited to 5 minutes each)



**6. Discussion and possible action on the process for
identification of Infeasible Water Management
Strategies from the 2021 Brazos G Plan**

Brazos G

Scope of Work Committee



WACO, TX NOV 15, 2023

Timeline

SOW Committee:

- Recommend list of infeasible 2021 strategies
- Recommend process for identifying feasible strategies
- Recommend list of identified feasible strategies to date
- Recommend Task 5B SOW/Budget

Consultant
Submittal of
Material for
RWPG's
Review

Brazos G Meeting, Action Requested:

- ✓ • Approve list of WWP/MWPs
- ✓ • Approve modifications to GW availability
- ✓ • Adopt process for identifying potentially feasible strategies
- ✓ • Approve list of potentially feasible strategies
- ✓ • Approve list of identified infeasible 2021 strategies
- Consider snapshot of availabilities and identified needs
- Approve submittal of Technical Memorandum
- Initiate Amendment
- Approve Task 5B SOW/Budget

Required
Submittal of
Technical
Memorandum

Nov – Jan
2023

January
2024

←
14-day
Notice

Feb 2024

March 4,
2024

Today's Items build upon Information at Scope of Work Committee Meeting on Oct. 10, 2023

6. Infeasible 2021 WMSs

- Status Update
- Discussion on Process

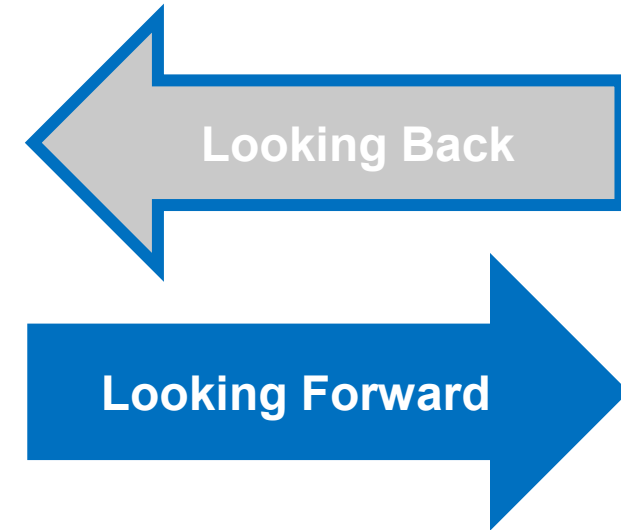
7. 2026 Process for Identifying Feasible WMS

- Statutory and Administrative Requirements
- Built off of 2021 Process
- Initially Proposed Modifications for 2026 Plan

8. Initial List of Potentially Feasible WMS

- Utilizes preliminary 2026 Process

9. Task 5B Scope/Budget Submittal

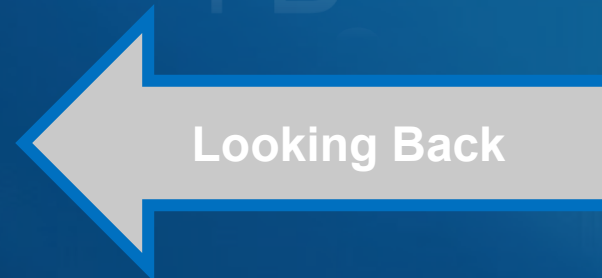


Item 6

Identification of Infeasible 2021 Strategies

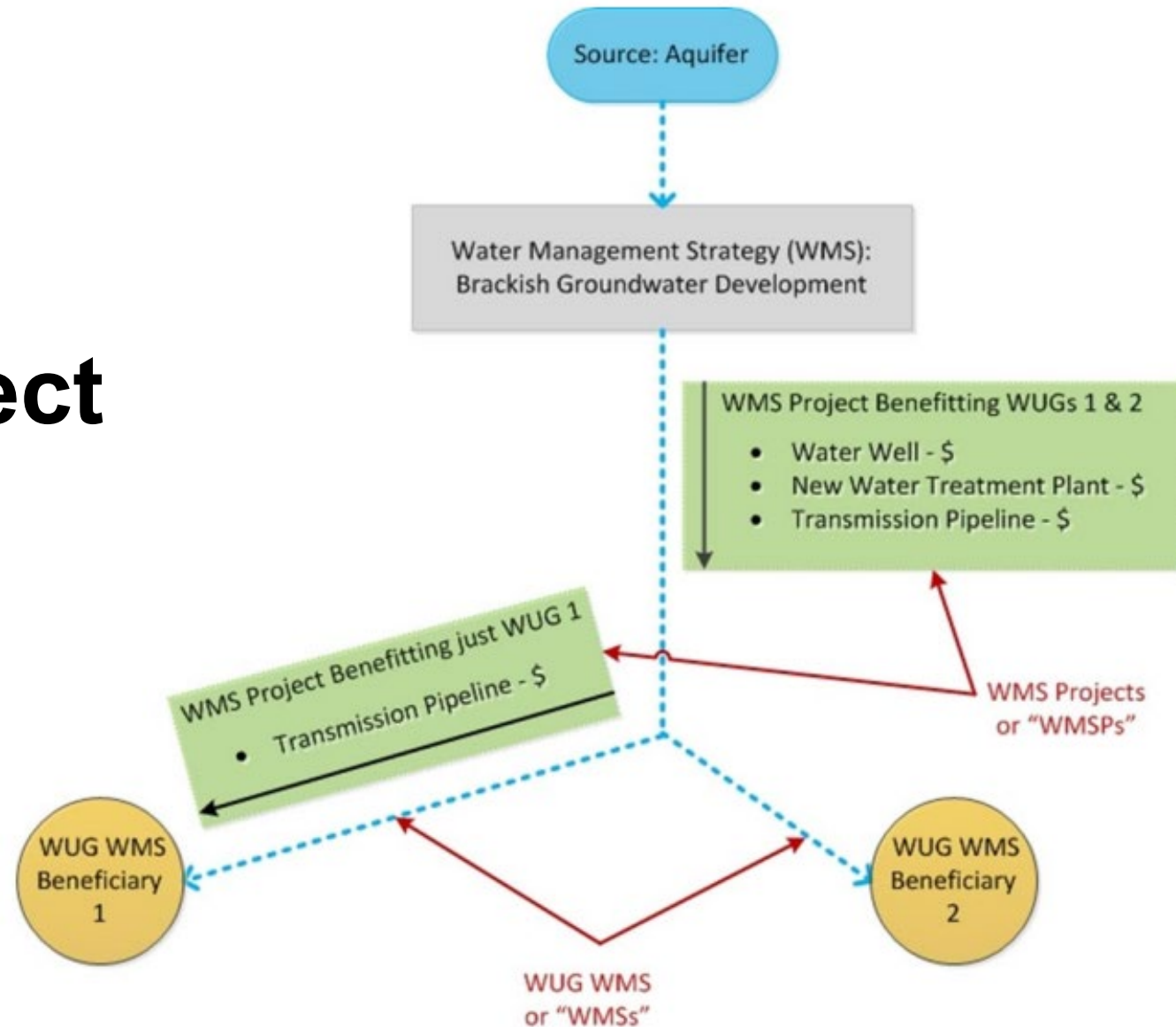
Status Update and Process Discussion

Status Update and Process Discussion



Water Management Strategy Structure

WMS & WMS Project



Feasible and Infeasible Water Management Strategies

- Statutory and Rule Requirements
 - TWC §16.053(h)(10) and 31 TAC §357.12 (b)
- RWPG shall:
 - Hold a public meeting to determine the process for identifying potentially feasible WMSs;
 - Process shall be documented, and
 - Shall include input received at the public meeting;
 - After reviewing the potentially feasible strategies using the documented process, the RWPG shall list all possible WMSs that are potentially feasible for meeting a water need in the region.
 - The public meeting shall also include a presentation of the results of the analysis of infeasible WMSs or WMSPs, as defined by Texas Water Code §16.053(h)(10), included in the most recently adopted RWP.
 - Include list of Infeasible WMSs and WMSPs in Technical Memorandum
 - Infeasible WMSs or WMSPs shall be identified based on:
 - Project sponsor provided information
 - Local knowledge, as acquired through plan development activities such as surveys, and as determined based on implementation schedules consistent with implementation by the project sponsors.
 - The group shall provide notice to all associated project sponsors and amend its adopted RWP as appropriate based upon the analysis.

Infeasible Strategies

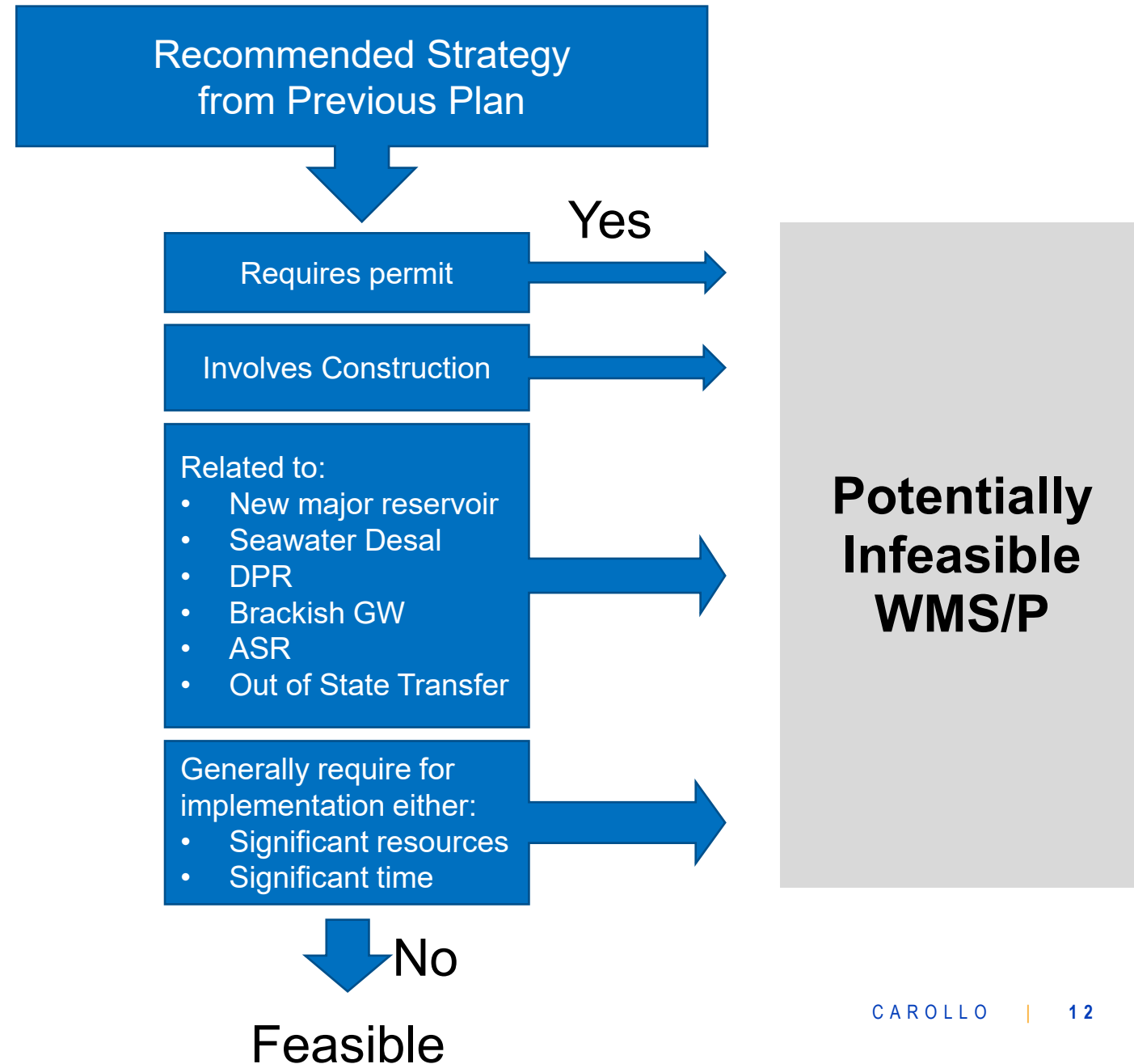
- Amend the previous RWP to modify and/or remove any infeasible WMS or WMSP in accordance with existing amendment procedures
- If applicable or required, identify and evaluate new WMSs or WMSPs that would be needed to meet need that had been met by infeasible WMS/WMSP
- Previous RWP may be amended to:
 - Remove infeasible WMS/WMSP
 - Revise infeasible WMS/WMSP to make it feasible
 - Incorporate a new WMS/WMSP to address the identified need.
- RWPG must submit the adopted amendments associated with this task to TWDB no later than three (3) months following March 4, 2024 (i.e., June 4, 2024).

“[A] water management strategy or project is considered infeasible if the proposed sponsor of the water management strategy or project has not taken an *affirmative* vote or other action to make expenditures necessary to construct or file applications for permits required in connection with the implementation of the water management strategy or project under federal or state law on a schedule that is consistent with the completion of the implementation of the water management strategy or project by the time the water management strategy or project is projected by the regional water plan or the state water plan to be needed.

- **TWC §16.053(h)(10)**

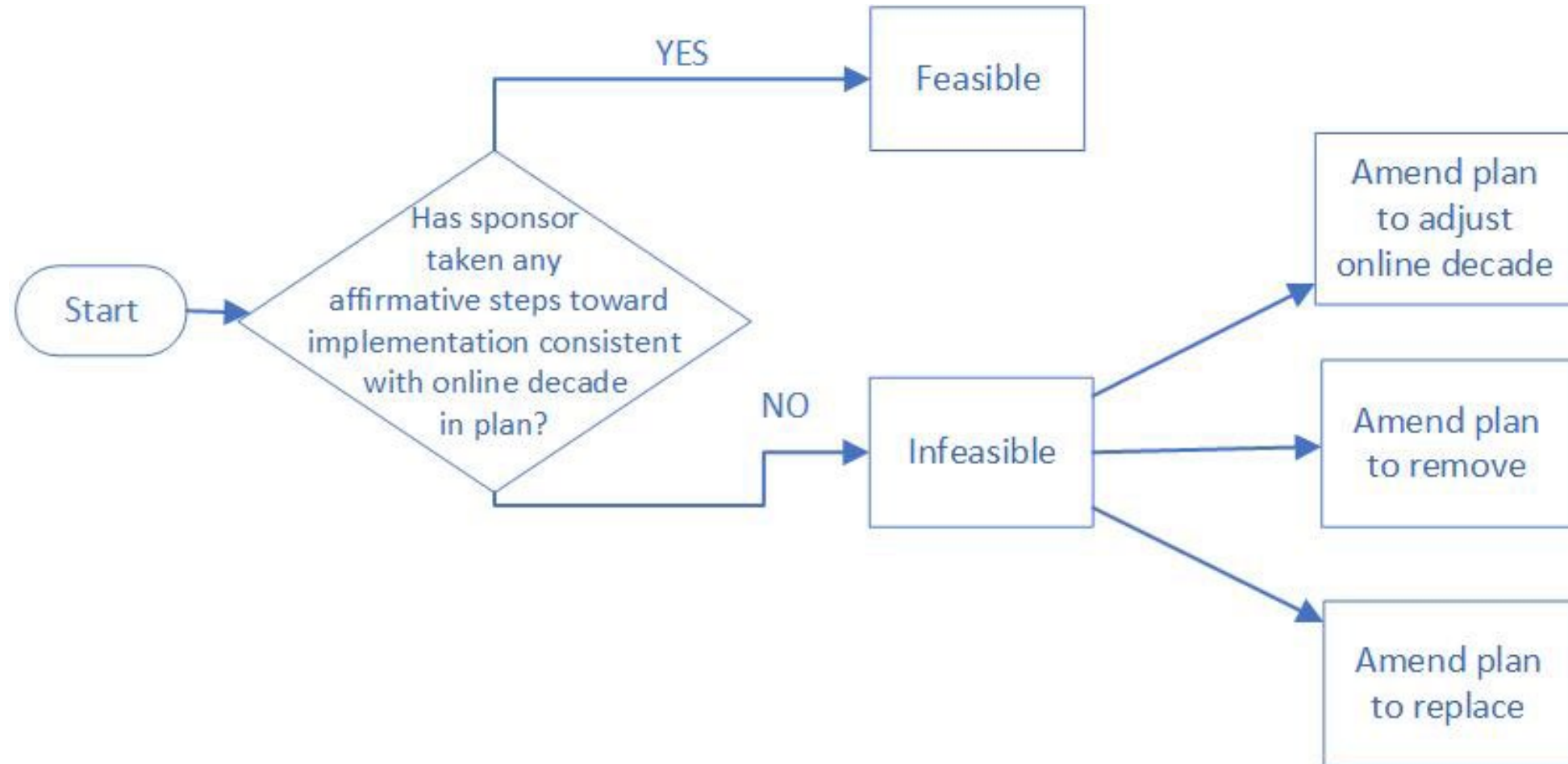
Infeasibility Process

Step 1: Identification of Potentially Infeasible WMS



Infeasibility Process (cont'd)

Apply the following steps to each identified, potentially infeasible WMS/WMSP:



Affirmative Steps

- Spending money on the strategy or project
- Voting to spend money on the strategy or project
- Applying for a federal or state permit for the strategy or project

Infeasibility Process (cont'd)

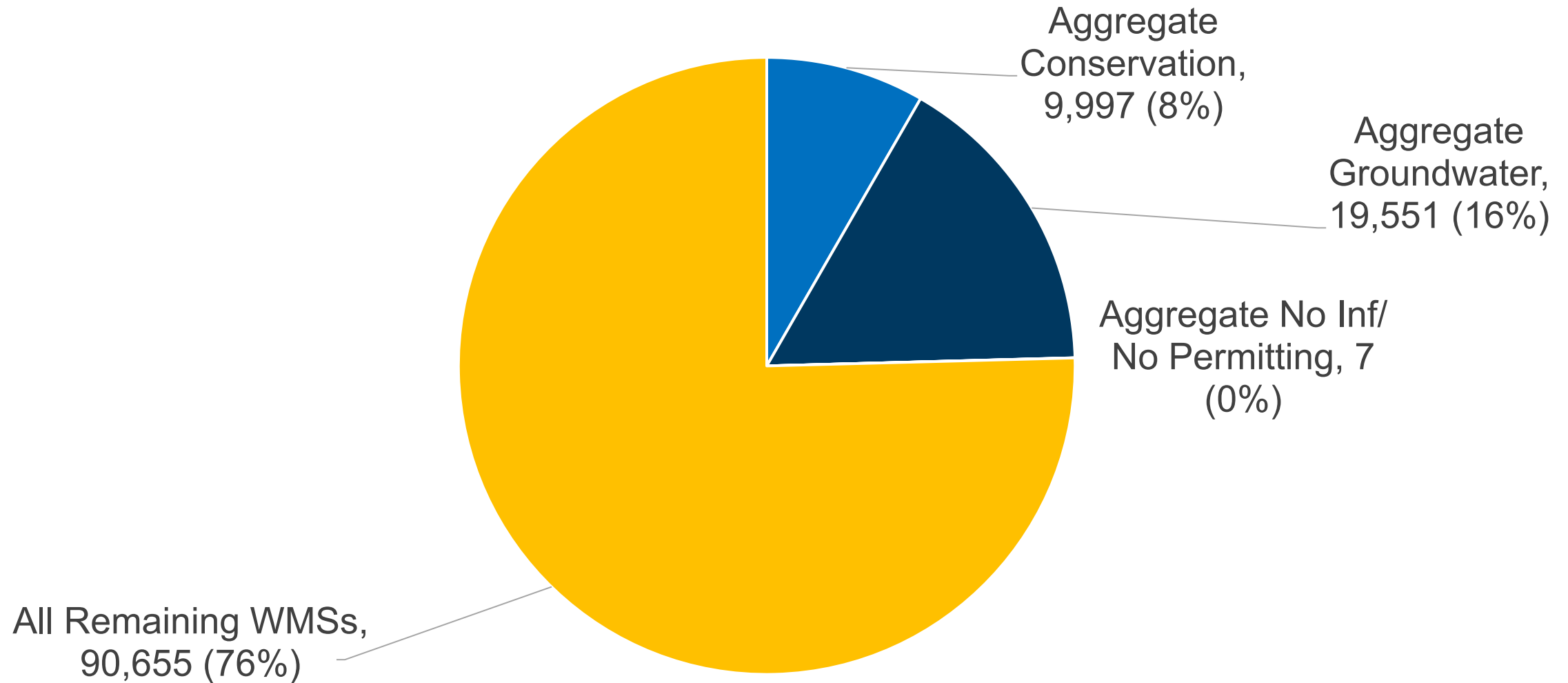
TWDB recognizes information may be difficult to obtain or may not be available for some WUG categories

- e.g., county-wide, aggregate WUGs with WMS/WMSP to be implemented by private parties

RWPG may therefore not be able to determine infeasibility for some strategies or projects.

- 85 in Region G

Proportions of Aggregate WMSs by Amount of Water (2020)

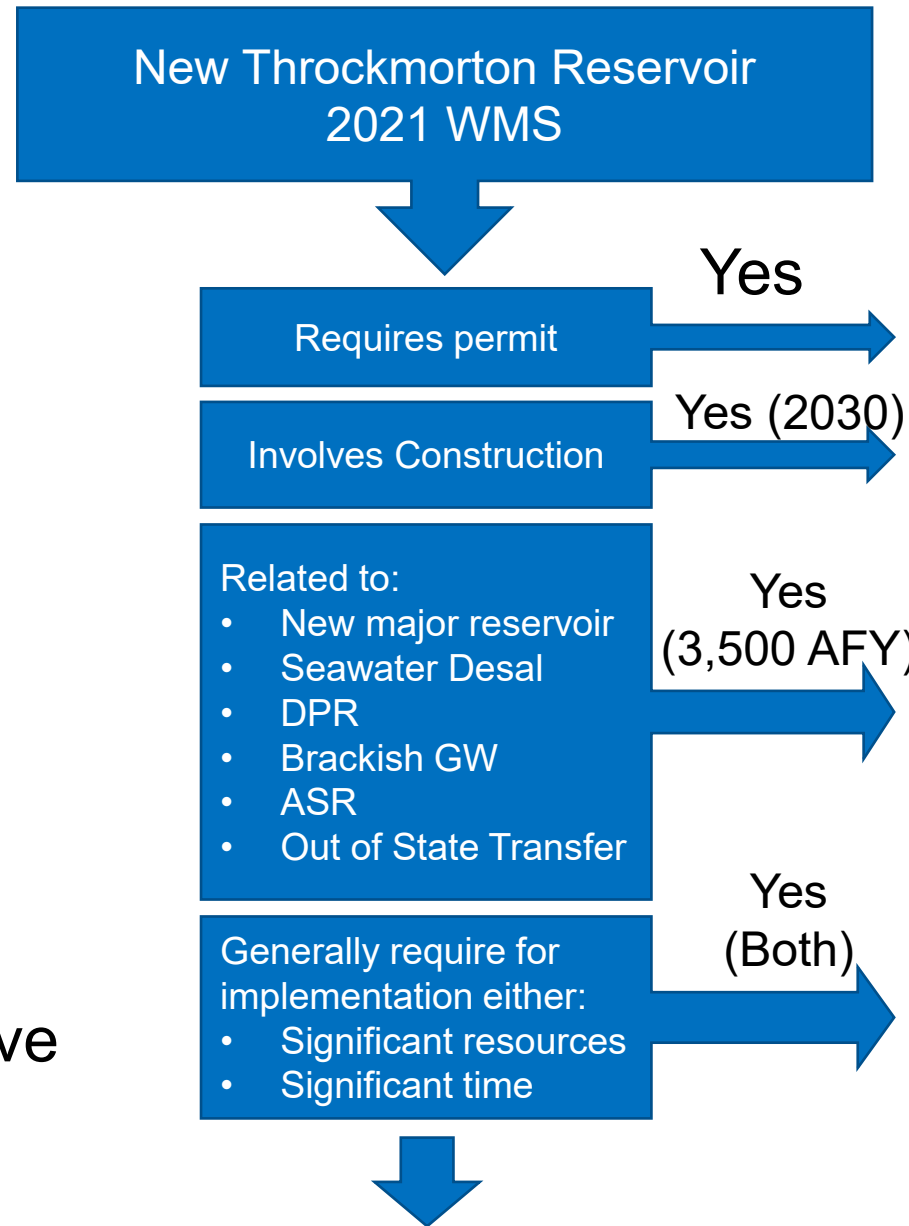


Walkthrough of Infeasibility Process with New Throckmorton Reservoir WMS

Step 1: Identification of Potentially Infeasible WMS

Per 2021 RWP:

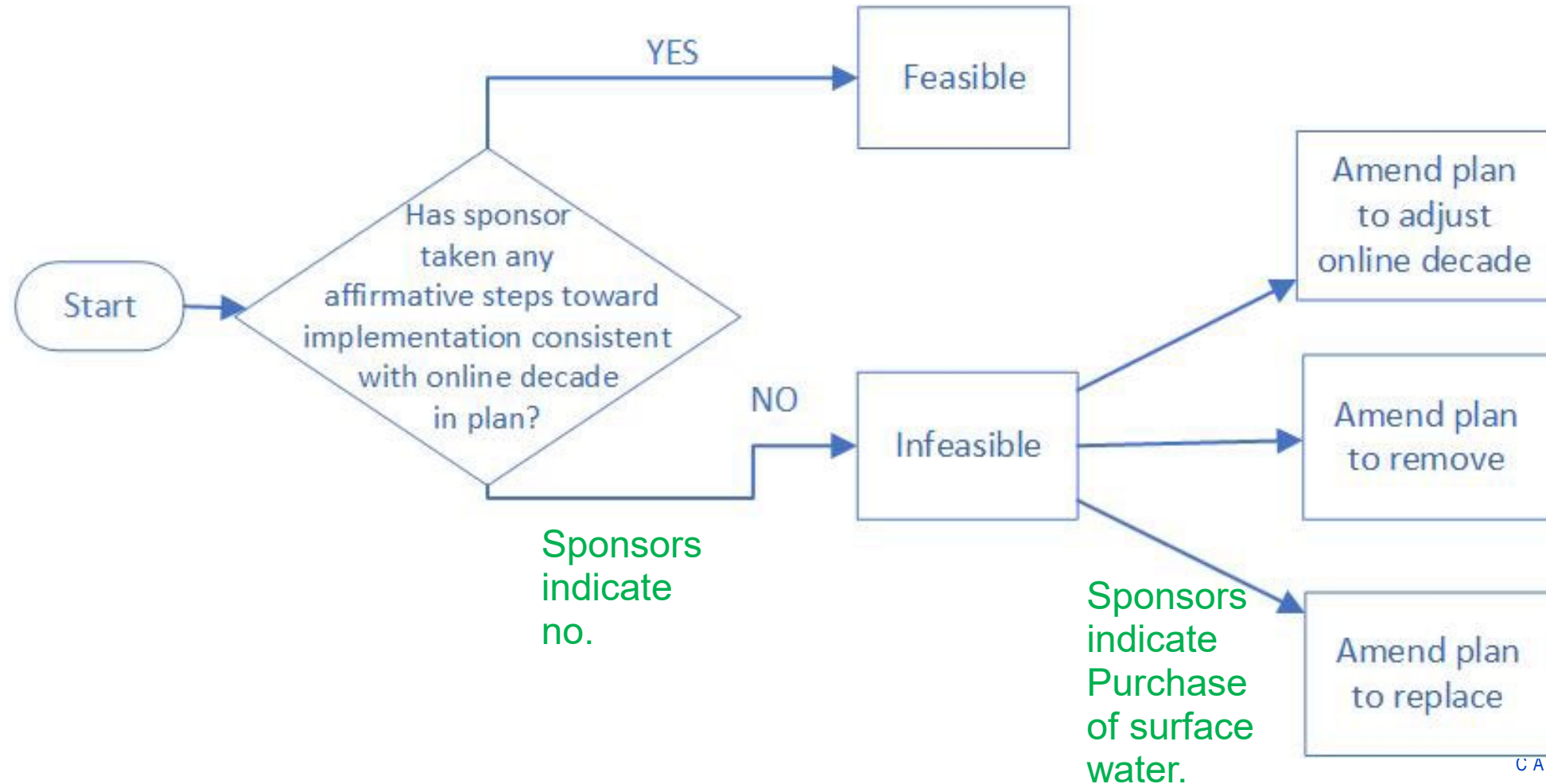
- City of Graham to receive 1,500 AF/YR starting in 2030
- City of Throckmorton to receive 2,000 AF/YR starting in 2030



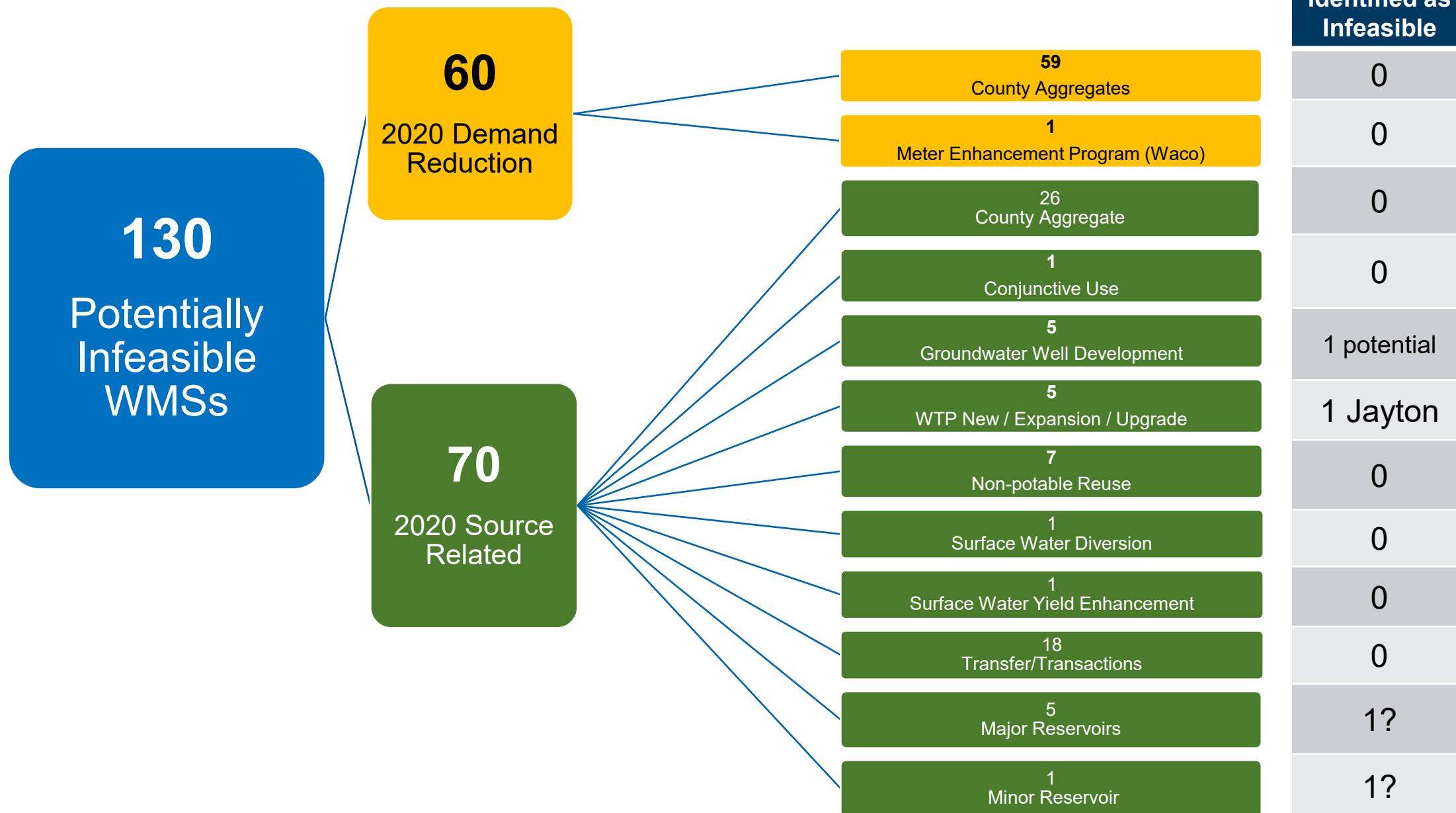
Potentially Infeasible WMS/P

Infeasibility Process (cont'd)

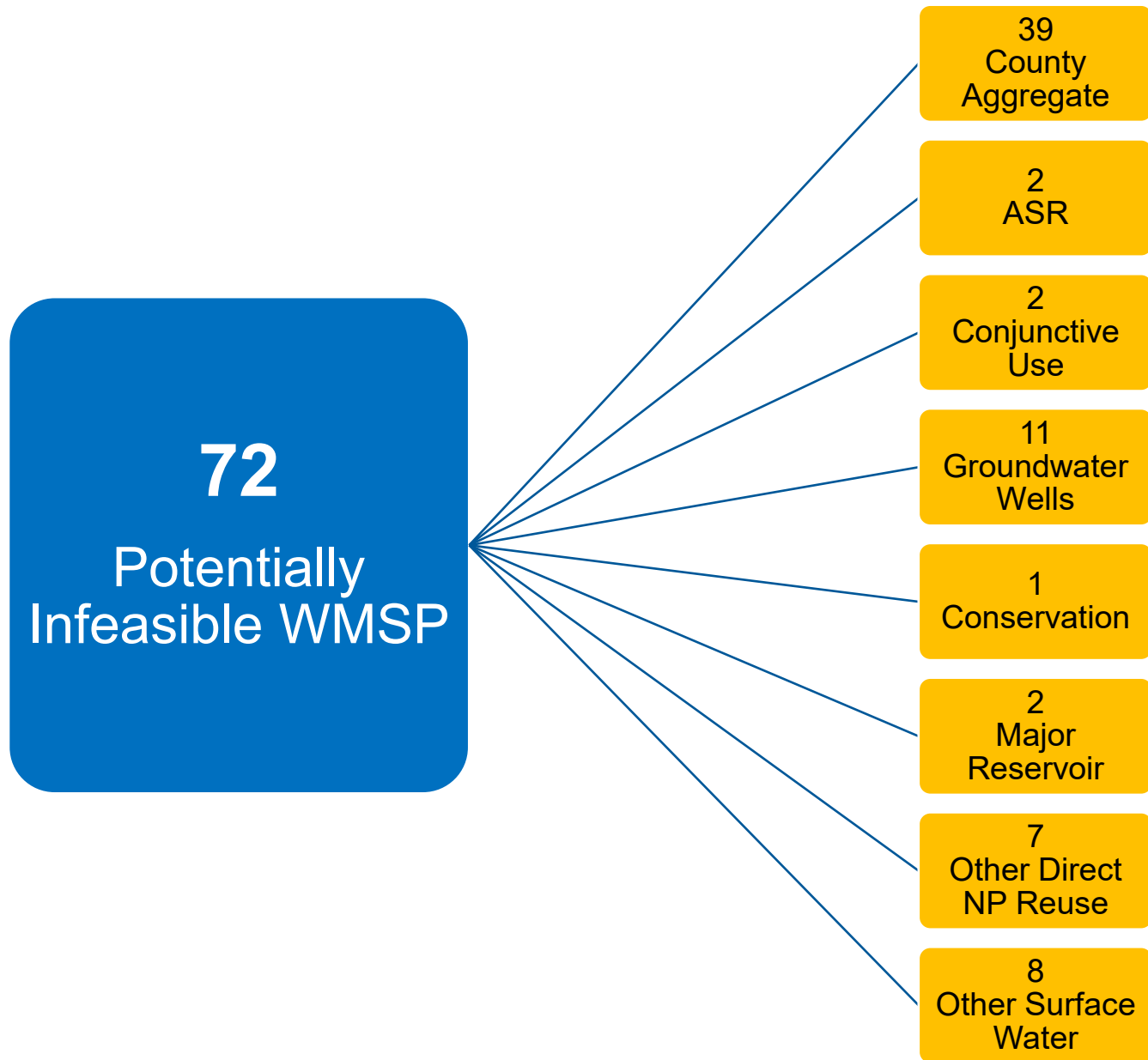
Apply the following steps to each identified, potentially infeasible WMS/WMSP:



Summary of Potential Infeasible 2020 WMS

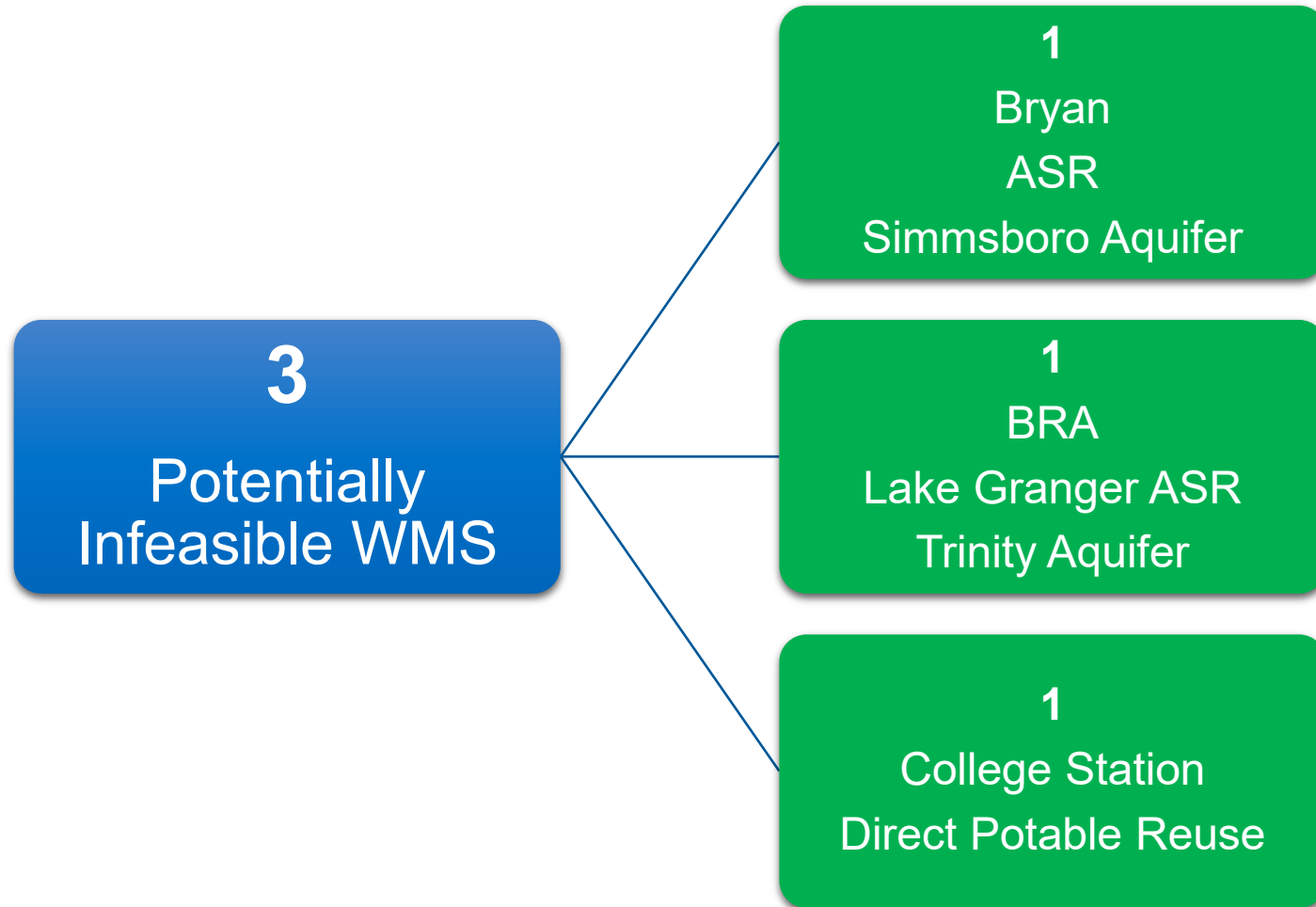


Summary of Potential Infeasible 2020 WMSPs



Number Identified as Infeasible	Remaining
0	-
0	-
0	-
2 (Godley, JC SUD)	3 (Strawn, Stephenville, Highland Park WSC)
0	-
0	1 (Sweetwater)
0	1 (Bellmead/Lacy Lakeview)
2 (Gatesville Expand WTP, Jayton New)	-

Summary of Potential Infeasible 2030-40 WMS



Number Identified as Infeasible	Status
0	Sponsor has taken affirmative steps
0	Sponsor has taken affirmative steps
0	Sponsor has taken affirmative steps

Type	Project	Sponsor	Online	Status
Groundwater	Add'l wells	City of Godley	2020	? - Looking into affirmative steps
	Add'l wells	Johnson County SUD	2020	Plans on surface water
WTP	New WTP	Jayton	2020	? - Possibly later decade
	WTP Expansion	Gatesville	2020	? - Contingent on customer growth
Major Reservoir	New Throckmorton Reservoir	Graham and Throckmorton	2030	Plan for existing surface water and/or increasing contracts.
	Brushy Creek Reservoir	Marlin	2040	? - Sponsor has taken affirmative steps, state permit acquired, land acquisition. Continuing discussions with USACE.
	Cedar Ridge Reservoir	Abilene	2030	? - Sponsor has taken affirmative step, applications filed with TCEQ and USACE.
	Lake Creek Reservoir	NCTMWA	2030	? - Sponsor has taken affirmative steps, \$500k expended to date on research/feasibility of project.
Minor Reservoir	Multi-County WSC	Coryell County OCR	2030	No affirmative steps, suggests possible online decade >2050, requires subordination of BRA Lake Belton rights.

Threshold for Implementation - Discussion

Is affirmative step threshold sufficient?

- Consistent with TWDB guidance.

Should there be an additional reasonableness threshold?

- Objective/subjective.
- Funding assistance.

Expectations Regarding Potential Amendment of 2021 Plan

Continue ongoing coordination with sponsors to confirm responses and identify alternatives

- Convey potential ramifications

Address previously identified corrections:

- Correct capital cost for Williamson County groundwater WMS
- Correct typo on “Trinity Aquifer Development WMS - Palo Pinto County Irrigation”

Timing

- Possible March and May hearings/meetings
- Meet all notice, review, and comment period requirements
- Before June 4, 2024 deadline.



**7. Discussion and possible action on the process for
identifying Potentially Feasible Water Management
Strategies**

Item 7

Process for Identifying Potentially Feasible Strategies

Feasible strategies



Selection of Water Management Strategies to Address Unmet Needs - Chronology

Identification of Potentially Feasible Water Management Strategies

Evaluation of Water Management Strategies

Selection of Water Management Strategies to meet unmet needs, specific to WUGs and WWPs

Selection of Water Management Strategies to Address Unmet Needs - Chronology

Include strategies identified in previous plans

Cross reference with the types of strategies required

Determine initial list of Potentially Feasible Strategies

Add additional strategies later as requested by stakeholders if time and budget allow

31 TAC 357.12(b) – RWPG must...



Conduct a public meeting to determine the process for identifying potentially feasible Water Management Strategies (WMSs)



Document process and incorporate input received



List all possible potentially feasible WMSs

Identifying and Evaluating WMSs

TWDB allows flexibility in selecting method



Criteria determined by Planning Group



Should receive public comment on proposed process



Should be an equitable and consistent evaluation and application of all potentially feasible WMSs for each water supply need.

TWDB Guidelines for Identifying Water Management Strategies



Evaluate the net quantity, reliability, and cost of water delivered to users during drought conditions (does not include distribution of water after treatment).



Evaluate Environmental Factors

Environmental water needs
Wildlife habitat
Cultural resources
Adopted environmental flow standards



Impacts on other water resources of the State



Discussion of threats to agricultural or natural resources

TWDB Guidelines for Identifying Water Management Strategies

Consideration of interbasin transfer

Consideration of third party social and economic impacts resulting from voluntary redistribution of water

Impacts on key water quality parameters

Consideration of existing infrastructure (pipelines, other facilities)

Any other factors as deemed relevant by the regional water planning group

Strategies Required for Consideration by Rule*

1. Conservation
2. Drought management
3. Reuse
4. Management of existing water supplies
5. Conjunctive use
6. Acquisition of available existing water supplies
7. Development of new water supplies
8. Developing regional water supply facilities or providing regional management of water supply facilities

*Those in red are not identified in the list developed from the previous plans.

Strategies Required for Consideration by Rule*

9. Developing large-scale desalination facilities for seawater or brackish groundwater that serve local or regional brackish groundwater production zones identified and designated under TWC §16.060(b)(5)26
10. Developing large-scale desalination facilities for marine seawater that serve local or regional entities
11. Voluntary transfer of water within the region using, but not limited to, contracts, water marketing, regional water banks, sales, leases, options, subordination agreements, and financing agreements
12. Emergency transfer of water under TWC §11.139
13. Interbasin transfers of surface water

*Those in red are not identified in the list developed from the previous plans.

Strategies Required for Consideration by Rule*

14. System optimization
15. Reallocation of reservoir storage to new uses
16. Enhancements of yields
17. Improvements to water quality
18. New surface water supply
19. New groundwater supply
20. Brush control
21. Precipitation enhancement
22. Aquifer storage and recovery
23. Cancellation of water rights
24. Rainwater harvesting

*Those in red are not identified in the list developed from the previous plans.

Proposed Process for Identifying Potentially Feasible Strategies

(Modified from 2021 Process)

(Modified from 2021 Process)

Proposed 2026 Plan's Process for Identifying Potentially Feasible Strategies

Include strategies identified in previous plans

- Include recommended and alternative strategies from **2021 Plan**
- Include strategies evaluated, but not recommended in **2021 Plan**
- Include strategies evaluated in previous Plans that were not moved forward
- **Include statutory categories**

Identify draft needs and develop additional ideas to meet those needs

Maintain ongoing communication from local interests through the process

Proposed 2026 Plan's Process for Identifying Potentially Feasible Strategies

Results in an initial list of potentially feasible strategies

Additional WMSs are included if:

- local interests request them and
- the planning schedule and budget allow for the addition.

Investigate for Potential Infeasibility

- If strategy contemplates permitting and/or construction
- If strategy is near-term or necessitates significant time for implementation
- If the potential sponsor(s) have taken, or have indicated they will take, affirmative steps towards the strategy's implementation. Affirmative steps may include, but not be limited to:
 - Spending money on the strategy or project
 - Voting to spend money on the strategy or project
 - Applying for a federal or state permit for the strategy or project

Identify if strategy could potentially provide flood mitigation benefits

Identify if strategy contemplates use of the Brazos Alluvium



8. Discussion and possible action to identify Potentially Feasible Water Management Strategies for use in the 2026 Brazos G Plan

Item 8

List of Potentially Feasible Strategies

strategies

Considerations from 2021 Brazos G Plan

Seawater desalination was not considered potentially feasible.

Brackish groundwater was not considered in the 2021 Plan.¹

1. *At the time, brackish groundwater was part of the MAG and would have only been considered if it was cheaper than going to a freshwater portion of an aquifer. For the 2026 plan, TWDB has identified Brackish Groundwater Production Zones (BGPZs), the supplies from which might be considered as separate from the MAG. We anticipate evaluating brackish groundwater for the 2026 Plan.*

Considerations from 2021 Brazos G Plan

Aquifer Storage and Recovery

- ASR potential was assessed based on a “threshold of significant water needs” of $\geq 10,000$ ac-ft/yr and ASR potential for each WUG.
- ASR was recommended for other WUGs with needs less than the threshold; rationale was not documented.
- ASR was not considered as a potential strategy for county-aggregated WUGs unless a specific project sponsor requested; there were no requests.

Considerations from 2021 Brazos G Plan

Emergency Transfers

- Continue stance from 2021 Plan?

Water Conservation

- Municipal goals
- Non-municipal goals
- Specific goals

Plan Development Criteria

- Water Supply
- Environmental Issues
- Impacts on Other State Water Resources
- Threats to Agriculture and Natural Resources
- Equitable Comparison of Feasible Strategies
- Interbasin Transfers
- Impacts from Voluntary Redistribution
- Other Criteria

Identification of Potentially Feasible Strategies

- Technical Consultant reviewed strategies evaluated in all previous plans
- **Initial** list of 121 potentially feasible strategies
- Six of the required categories not included in 2021 Plan
- Dollars (cost) from 2021 Brazos G Plan

Legend

X = evaluated in the identified regional water plan

R = recommended identified regional water plan

A = alternative strategy identified regional water plan

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Conservation and Demand Management										
1	Municipal Conservation		X	X	R	R	1	VARIES	\$614,324,416	VARIES
2	Industrial Conservation		X	X	R	R	1	VARIES	VARIES	VARIES
3	Irrigation Conservation		X	X	R	R	1	VARIES	VARIES	VARIES
4	Advanced Municipal Conservation (gpcd < 140)				R	R	1	VARIES	VARIES	VARIES
5	Advanced Industrial Conservation				R	R	1	VARIES	VARIES	VARIES
6	Drought Management		X	X	X	R	2	NA	NA	NA
7	Leave Needs Unmet				R	R	NA	NA	NA	NA

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
New Reservoirs										
8	Breckenridge Reservoir		X				18,7	28,920	\$82,755,000	\$0.69
9	Brushy Creek Reservoir			X	R	R	18,7	2,000	\$33,229,000	\$3.82
10	Cedar Ridge Reservoir		X	X	R	R/A	18,7	23,311	\$283,646,000	\$2.62
11	Coryell County Off-Channel Reservoir			X	R	R	18,7	3,135	\$82,584,000	\$6.19
12	Double Mountain Fort (East) Reservoir		X	X			18,7	36,025	\$211,373,000	\$1.37
13	Double Mountain Fort (West) Reservoir		X	X			18,7	34,775	\$151,456,000	\$1.02
14	Lake Bosque	X					18,7	17,900	\$67,063,000	\$0.83
15	Groesbeck Off-Channel Reservoir	X	X	X	R	R	18,7	1,755	\$23,599,000	\$3.24
16	Hamilton County Reservoir				X	X	18,7	9,275	\$248,308,000	\$9.73
17	NCTMWA Lake Creek Reservoir (formerly Millers Creek Off-Channel Reservoir)				A	R	18,7	12,900	\$259,001,000	\$5.08
18	Lake Palo Pinto Off-Channel Reservoir		X	X	A		18,7	3,110	\$34,685,000	\$3.01
19	Little River Off-Channel Reservoir	X	X	X	R		18,7	56,150	\$248,761,000	\$1.27
20	Little River Reservoir			X			18,7	71,275	\$331,705,000	\$1.01
21	Brazos River Main Stem Off-Channel Reservoir				X	X	18,7	7,200	\$107,532,000	\$3.35
22	Meridian Off-Channel Reservoir	X		X	A		18,7	615	\$21,702,000	\$12.15
23	Millican-Bundic Reservoir	X	X				18,7	38,080	\$464,764,000	\$2.80
24	Millican-Panther Reservoir			X			18,7	194,500	\$1,159,907,000	\$1.90
25	Paluxy Reservoir	X					18,7	16,300	\$74,147,000	\$1.03
26	Peach Creek Off-Channel Reservoir	X	X	X	X		18,7	4,240	\$66,852,000	\$4.40
27	Somervell County Off-Channel Reservoir	X					18,7	2,000	\$24,633,000	\$3.38
28	South Bend Reservoir	X	X	X	X	X	18,7	65,000	\$623,882,000	\$1.65
29	Throckmorton Reservoir			X	R	R	18,7	3,500	\$68,103,000	\$5.18
30	Turkey Peak Reservoir		X	X	R	R	18,7	6,000	\$102,530,000	\$2.98
31	Wheeler Branch Off-Channel Reservoir		X	X			18,7	1,800		

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
New Groundwater Supplies										
32	Brazos River Alluvium - various entities	X			X	R	19, 7			
33	County, others	X	X	X	R	R	19, 7			
34	Gulf Coast Aquifer - various entities			X	R	R	19, 7			
35	Trinity Aquifer - various entities			X	R	R/A	19, 7			
36	Edwards Aquifer - various entities			X	R	R	19, 7			
37	Sparta Aquifer - various entities				R	R	19, 7			
38	Dockum Aquifer - various entities				R	X	19, 7			
39	Woodbine Aquifer - various entities				R	R	19, 7			
40	Blaine Aquifer - various entities				R	R	19, 7			
41	Yegua-Jackson Aquifer - various entities				R	R	19, 7			
42	Seymour Aquifer - various entities				R	R	19, 7			
43	Carrizo Aquifer - various entities					R/A	19, 7			
44	Williamson County Groundwater - South Option					R	19, 7	23,250	\$415,016,000	\$5.41/\$1.56
45	Marble Falls Aquifer Development - various entities					R	19, 7			
46	Other Aquifer Development - various entities					R	19, 7			
47	Cross Timbers Aquifer Development - various entities					R	19, 7			
48	Ellenburger-San Saba Aquifer Development - various entities					R	19, 7			

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed	Project Cost	Cost of Water (\$/1,000)
49	Various projects to utilize potential unallocated supply		X	X	R	R	14		\$192,175,000	Varies
50	Coordinated use of Fort Phantom Hill and Hubbard Creek Reservoir	X								
51	Coordinated use of Lake Leon Water Supply with Local Groundwater	X								
52	Oak Creek Reservoir Conjunctive Management			X	R	R	5	4,142	\$0	\$0.00
Aquifer Storage and Recovery										
53	Bryan ASR				R	R	22	14,626	\$72,404,000	\$1.37
54	College Station ASR				R	R	22	3,640	\$89,158,000	\$10.06
55	Trinity ASR in Johnson County (Johnson County SUD and Acton MUD)		X	X	A	A	22	3,574	\$19,789,000	\$1.94/\$0.75
56	Trinity ASR in McLennan County		X	X	R	R	22	8,000	\$65,954,000	\$1.98
57	Lake Granger ASR (Trinity Aquifer)				R	R	22	11,900	\$24,141,000	\$0.83
58	Seymour ASR Project	X	X	X			22	3,750	\$18,826,000	\$1.45
59	Trinity - Lake Georgetown ASR					R	22	8,645	\$306,276,000	\$4.35

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Wastewater Reuse										
60	Reuse Supply - various reuse projects throughout Brazos G		X	X	R	R	3			
61	College Station DPR				A	R	3	8,232	\$84,177,000	\$1.86
62	College Station Non-Potable Reuse				R	X	3	103	\$3,553,000	\$8.97
63	City of Bryan Lake Bryan Reuse, Option 1				R	R	3	605	\$11,092,000	\$7.52
64	City of Bryan Lake Bryan Reuse, Option 2					A	3	2,419	\$41,105,000	\$7.48
65	City of Bryan Miramont Reuse				R	X	3	600	\$3,894,000	\$1.61
66	City of Cleburne Reuse				R	R	3	7,617	\$38,926,000	\$2.90/\$0.76
67	Waco WMARSS Reuse Projects		X	X	R	R	3	14,568	\$89,538,000	\$23.50
68	Bell County WCID No. 1 Reuse			X	R	R	3	2,673	\$26,764,000	\$6.74/\$1.70
69	TRA Reuse - Joe Pool		X	X			3	20,000	\$79,257,000	\$1.84
70	Cedar Park Reuse					R	3	1,120	\$7,184,000	\$1.67
71	Georgetown Reuse					R	3	1,456	\$6,270,000	\$1.07

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Regional Projects										
72	Lake Belton to Lake Stillhouse Hollow Pipeline			X	R	R	4	5,000	\$67,993,000	\$4.02
73	Bosque County Regional Project	X	X	X	R	R	8	1,070	\$38,990,000	\$9.94
74	Brushy Creek RUA Water Supply Project	X	X	X	R	R	8	69,128	\$327,997,500	\$2.51
75	East Williamson County Water Supply Project			X	R	R	8	11,762	\$30,264,420	\$0.72/\$0.06
76	Lake Whitney Water Supply Project (Cleburne), Phase 1 and Phase 2			X	R	X	8	7,400	\$122,267,000	\$7.11/\$3.55
77	Future Phases of Lake Whitney Water Supply Project			X	R					
78	Somervell County WSP			X	R	R	5	600	\$36,250,000	\$18.13
79	West Central Brazos Water Distribution System	X	X	X	R	X	8			
80	Alcoa Property Supply					R	11	18,600	\$241,689,000	\$4.28/\$1.47
81	West Texas Water Partnership					A	8			

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Augmentation of Existing Supplies										
82	Gibbons Creek Reservoir Expansion			X	R			2,605	\$12,979,000	\$1.10
83	Lake Aquilla Storage Reallocation			X	R	R	15	2,483	\$24,353,000	\$2.67
84	Lake Aquilla Augmentation - Cleburne (Lake Whitney to Aquilla)				R					
85	Lake Cisco Augmentation	X								
86	Lake Granger Augmentation (Ph 1)		X	X	A	X	4	13,716	\$96,685,000	\$2.51
87	Lake Granger Augmentation (Ph 2)					R	4	19,168	\$845,564,000	\$12.08
88	Lake Granger Storage Reallocation			X	A	X	15	1,535	\$33,238,000	\$6.03
89	Lake Stillhouse Hollow Reallocation				A			2,643	\$36,553,000	\$3.61
90	Lake Whitney Reallocation, Hydropower Storage	X			A	R	15	38,480	\$36,689,000	\$0.21
91	Lake Whitney Reallocation Supplies to Williamson County					R	15	26,000	\$306,683,000	4.96/2.42
92	Lake Whitney Over-Drafting Supply with Off-Channel Reservoir					A	18	5,200	\$171,738,000	\$7.60
93	Lake Leon Augmentation	X						9,100	\$2,200,000	
94	Lake Stamford Augmentation	X						6,680	\$6,300,000	
95	Lake Sweetwater Augmentation	X						790	\$3,000,000	
96	Millers Creek Reservoir Augmentation, Canal Option			X	R	X	4	2,075	\$29,174,000	\$2.58
97	Millers Creek Reservoir Augmentation, Pipeline Option					X	4	2,000	\$22,621,000	\$2.84
98	Millers Creek Reservoir Augmentation, New Dam and Reservoir					X	4	2,350	\$81,334,000	\$6.05
99	Millers Creek Reservoir Augmentation, Combined Canal Diversion with New Dam and Reservoir					X	4	3,025	\$113,389,000	\$6.54
100	BRA Sediment Reduction Program			X	A					
101	South San Gabriel Diversion into Lake Georgetown									

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Chloride Reduction or Treatment										
102	Brackish GW Desal	X		X	X		9			
103	Chloride Control Project (SFWQC)			X	R	R	17			
104	Supplies from Chloride Control Project - Aspermont, Jayton, Region O					R	17	1,496	\$70,857,000	\$56.19
105	Lake Whitney Desal	X						11202	\$29,085,000	\$1.58
106	Ocean Water Desal						10			
107	BRA SWATS reallocation of capacity	X		X	X					
Other Strategies										
108	Purchase and Use of Water from Possum Kingdom - Abilene				A					
109	Brackish Groundwater				X		17			
110	Brush Control		X	X	R	X	20	0	\$7,308,000	NA
111	Restructure Contracts			X	R		4			
112	Subordination Agreements			X	R	R	4			
113	Weather Modification	X	X	X			21			

Potentially Feasible Strategies

Number	Strategy	2001	2006	2011	2016	2021	Required by Rule	Supply Developed (acft/yr)	Project Cost	Cost of Water (\$/1,000 gals)
Miscellaneous Strategies										
114	Misc. Pipelines, Pump Stations, and GW Options - various entities	X	X	X	R	R	6	Varies	Varies	Varies
115	Misc. Purchases, Interconnects, and Reallocations - various entities	X	X	X	R	R	6	Varies	Varies	Varies
116	Rehabilitate Existing Wells			X	R		6			
117	Purchase from Walnut Creek Mine - Robertson County SE				R	R	11			
118	Purchase from SAWS Vista Ridge Project (Williamson County)				R	R	11	5,700	NA	\$7.40
119	Water Treatment Plant Expansions - various entities	X	X	X	R	R	4	Varies	Varies	Varies
Regional Projects										
120	Trinity Basin Supplies (Trinity or Neches River projects to middle Brazos)					X	13	5,700	\$54,249,000	\$2.72
121	Red River Off-Channel Reservoir near Arthur City					X	18	196,000	\$2,790,964,000	4.27/1.25

Requested Input

Identify

- Additions
- Removals

Recommend to Consultant

- Development of scope and budget for complete list or subset.



9. Discussion regarding the forthcoming scope of work amendment required to proceed with the Evaluation and Recommendation of Water Management Strategies and Projects (Task 5B)

Item 9

Scope of Work Development for
Task 5B

Task 5B

Background

- Exhibit A, First Amended Scope of Work, 2026 Regional Water Plans, August 2022:
 - Task 5B – Evaluation and Recommendations of Water Management Strategies and Projects includes preparation of a separate chapter “...that identifies, evaluates, and recommends WMSs and WMSPs.”
 - “Performance of work associated with any 5B subtasks will be contingent upon a written notice-to-proceed in the form of a contract amendment.”
 - “Scope of Work to be amended based on specific Task 5B scope of work to be developed and negotiated with TWDB.”
- Prior to evaluation of the Potentially Feasible WMSs identified, Brazos G must develop and submit a scope of work and associated budget and request notice-to-proceed.

Next Steps

- Technical Consultant to develop Draft Scope of Work and budget based on identified list of strategies for committee consideration and possible action in January
- Based on the committee's recommendations, the Scope of Work and budget will be finalized and presented to the Brazos G RWPG for consideration and possible action at February meeting.
- Target budget amount is \$824,994.00.
- Upon RWPG adoption, submit to TWDB and request notice to proceed.
- Coordination with TWDB as needed.

Scope of Work/Budget Framework

- Available supplies will be calculated based on approved methodologies.
- Estimated costs will be updated using the TWDB Unified Costing Model.
- Each strategy will be evaluated consistent with approved process and guidelines, including reliability, cost, environmental impacts, and other components adopted by RWPG.

Scope of Work/Budget Framework

- GIS maps will be developed for all strategies, illustrating infrastructure improvements and supply sources
- WMS evaluation will be aligned with specific categories (e.g., conservation, reuse, etc.)
- The scope of work also includes:
 - Coordination with specific WUGs and WWPs as necessary regarding individual plans
 - Database entry
 - Preparation of the associated report (chapter)

Preliminary Outline for Scope of Work

1. Water Conservation

2. Reuse

- a. Reuse Supply - various reuse projects throughout Brazos G
- b. College Station DPR
- c. College Station Non-Potable Reuse
- d. City of Bryan Lake Bryan Reuse, Option 1
- e. City of Bryan Lake Bryan Reuse, Option 2
- f. City of Bryan Miramont Reuse
- g. City of Cleburne Reuse
- h. Waco WMARSS Reuse Projects
- i. Bell County WCID No. 1 Reuse
- j. Cedar Park Reuse
- k. Georgetown Reuse

Preliminary Outline for Scope of Work

3. New Reservoirs

- a. Brushy Creek Reservoir
- b. Cedar Ridge Reservoir
- c. Coryell County Off-Channel Reservoir
- d. Groesbeck Off-Channel Reservoir
- e. Hamilton County Reservoir
- f. NCTMWA Lake Creek Reservoir (formerly Millers Creek Off-Channel Reservoir)
- g. Brazos River Main Stem Off-Channel Reservoir
- h. South Bend Reservoir
- i. Throckmorton Reservoir
- j. Turkey Peak Reservoir

Preliminary Outline for Scope of Work

4. New Groundwater Supplies and Groundwater Projects
 - a. Miscellaneous GW Strategies/Projects
 - b. Brazos River Alluvium - various entities
 - c. Gulf Coast Aquifer - various entities
 - d. Trinity Aquifer - various entities
 - e. Edwards Aquifer - various entities
 - f. Sparta Aquifer - various entities
 - g. Dockum Aquifer - various entities
 - h. Woodbine Aquifer - various entities
 - i. Blaine Aquifer - various entities
 - j. Yegua-Jackson Aquifer - various entities
 - k. Seymour Aquifer - various entities
 - l. Carrizo Aquifer - various entities
 - m. Williamson County Groundwater - South Option
 - n. Marble Falls Aquifer Development - various entities
 - o. Other Aquifer Development - various entities
 - p. Cross Timbers Aquifer Development - various entities
 - q. Ellenburger-San Saba Aquifer Development - various entities
 - r. Brackish GW Strategies/Projects

Preliminary Outline for Scope of Work

5. BRA System Operations

6. Oak Creek Reservoir Conjunctive Management

7. Aquifer Storage and Recovery

a. Bryan ASR

b. College Station ASR

c. Trinity ASR in Johnson County (Johnson County SUD and Acton MUD)

d. Trinity ASR in McLennan County

e. Lake Granger ASR (Trinity Aquifer)

f. Trinity - Lake Georgetown ASR

Preliminary Outline for Scope of Work

8. Regional Projects

- a. Lake Belton to Lake Stillhouse Hollow Pipeline
- b. Bosque County Regional Project
- c. Brushy Creek RUA Water Supply Project
- d. East Williamson County Water Supply Project
- e. Lake Whitney Water Supply Project (Cleburne),
Phase 1 and Phase 2
- f. Somervell County WSP
- g. West Central Brazos Water Distribution System
- h. Alcoa Property Supply
- i. West Texas Water Partnership

Preliminary Outline for Scope of Work

9. Augmentation/Reallocation of Existing Reservoir Supplies

- a. Lake Aquilla Storage Reallocation
- b. Lake Granger Augmentation (Ph 1)
- c. Lake Granger Augmentation (Ph 2)
- d. Lake Granger Storage Reallocation
- e. Lake Whitney Reallocation, Hydropower Storage
- f. Lake Whitney Reallocation Supplies to Williamson County
- g. Lake Whitney Over-Drafting Supply with Off-Channel Reservoir
- h. Millers Creek Reservoir Augmentation, Canal Option
- i. Millers Creek Reservoir Augmentation, Pipeline Option
- j. Millers Creek Reservoir Augmentation, New Dam and Reservoir
- k. Millers Creek Reservoir Augmentation, Combined Canal Diversion with New Dam and Reservoir

Preliminary Outline for Scope of Work

10. Chloride Reduction or Treatment

- a. Brackish GW Desal
- b. Chloride Control Project (SFWQC)
- c. Supplies from Chloride Control Project - Aspermont, Jayton, Region O

11. Other Strategies

- a. Brackish Groundwater
- b. Brush Control
- c. Restructure Contracts
- d. Subordination Agreements

Preliminary Outline for Scope of Work

12. Miscellaneous Strategies and Projects

- a. Misc. Pipelines, Pump Stations, and GW Options - various entities
- b. Misc. Purchases, Interconnects, and Reallocations - various entities
- c. Rehabilitate Existing Wells
- d. Purchase from Walnut Creek Mine - Robertson County SE
- e. Purchase from SAWS Vista Ridge Project (Williamson County)
- f. Water Treatment Plant Expansions - various entities

13. Regional Projects

- a. Trinity Basin Supplies (Trinity or Neches River projects to middle Brazos)
- b. Red River Off-Channel Reservoir near Arthur City

Preliminary Outline for Scope of Work

14. Additional Strategies

15. Plan Development

16. Database Entry

17. Chapter 5 Preparation



**10. Consider Agenda Items and Date for the next Scope
of Work Committee Meeting**

11. ADJOURN