

Region K WMS Committee Meeting

September 16, 2019



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Agenda

- 1. Call to Order
- 2. Welcome and Introductions
- 3. Receive public comments
- 4. Approval of meeting minutes

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Agenda Item 5

STATUS UPDATE OF WATER MANAGEMENT STRATEGY EVALUATIONS

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5. Status Update on Strategy Evaluations

Strategy	WUG	Strategy Type	New, Update, or Limited Update	Date Started	Status
Drought Management	All municipal WUGs and Irrigation with needs	Drought Management	New	7-Mar-19	Municipal under RWPG review
Advanced Water Conservation	Municipal utilities other than City of Austin	Conservation	New	7-Mar-19	Under Committee review
Aquifer Storage and Recovery	Manville WSC	Aquifer Storage and Recovery	New		No longer requesting - no other project sponsors
BS/EACD – Edwards/Middle Trinity ASR	Buda, Sunset Valley	Aquifer Storage and Recovery	Update	5/15/2019	Under Committee review
BS/EACD – Saline Edwards ASR	Buda, Hays County-Other	Aquifer Storage and Recovery and Desalination	Update	5/15/2019	Under Committee review
East Lake Buchanan Project	Burnet County-Other	Surface water infrastructure	Limited Update	4/16/2019	under RWPG review
Buena Vista Regional Project	Burnet County WUGs (County-Other and potential others)	Surface water infrastructure	Limited Update	4/16/2019	under RWPG review
Marble Falls Regional Project	Marble Falls, Burnet County-Other, other potential WUGs	Surface water infrastructure	Update	4/16/2019	under RWPG review
City of Austin Conservation	Austin	Conservation	Update	4/22/2019	under RWPG review
City of Austin Onsite Rainwater and Storm Water Harvesting	Austin	Rainwater harvesting	Update	4/22/2019	under RWPG review
Capture Local Inflows to Lady Bird Lake	Austin	Other surface water	Limited Update	4/17/2019	under RWPG review
Lake Austin Operations	Austin	Drought Management	Limited Update	4/17/2019	under RWPG review
Reduced Lake Evaporation	Austin, potentially others with a reservoir	Other	Update / New	4/17/2019	Austin - under RWPG review; others not identified yet
STP Nuclear Operating Company (STPNOC) Alternate Canal Delivery	Steam-Electric (Matagorda Co.)	Other surface water	Limited Update	4/18/2019	under RWPG review
STPNOC Brackish Surface Water Blending	Steam-Electric (Matagorda Co.)	Other surface water	Limited Update	4/18/2019	under RWPG review
City of Austin Off-Channel Reservoir and Evaporation Suppression	Austin	Off-Channel Reservoir	New	5/1/2019	under RWPG review
Rainwater Harvesting	Municipal utilities other than City of Austin	Other surface water	New	7/1/2019	Under Committee review
Reuse (Indirect Potable Reuse through Lady Bird Lake)	Austin	Indirect Potable Reuse	Update	4/30/2019	under RWPG review
City of Austin ASR	Austin	Aquifer Storage and Recovery	Update	5/1/2019	under RWPG review

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5. Status Update on Strategy Evaluations

Strategy	WUG	Strategy Type	New, Update, or Limited Update	Date Started	Status
Expand Use of Groundwater	Multiple	Expand use of existing GW supply sources	New	5/15/2019	ready for committee review
Development of New Groundwater Supplies	Multiple	Development of multiple aquifers.	New	5/15/2019	ready for committee review
Oceanwater Desalination	TBD	Seawater desalination	New	7/15/2019	ready for committee review
Reuse (direct reuse)	Marble Falls	Reuse	Update	4/22/2019	ready for committee review
	Horseshoe Bay	Reuse	Update	4/22/2019	ready for committee review
	Buda	Reuse	Update	4/22/2019	ready for committee review
	Burnet	Reuse	New	4/22/2019	ready for committee review
	Blanco	Reuse	New	4/22/2019	ready for committee review
	Dripping Springs WSC	Reuse	New	4/22/2019	ready for committee review
	Fredericksburg	Reuse	New	4/22/2019	ready for committee review
	Lago Vista	Reuse	New	4/22/2019	ready for committee review
	Lakeway MUD	Reuse	New	4/22/2019	ready for committee review
	Meadowlakes	Reuse	New	4/22/2019	ready for committee review
	Travis County WCID 17	Reuse	New	4/22/2019	ready for committee review
	West Travis County PUA	Reuse	New	4/22/2019	ready for committee review
	Downstream Return Flows	LCRA	Other surface water	Update	6/7/2019
Water Supply Infrastructure Development or Expansion	Any WUG with sufficient sw or gw contracts/permits, but lacking infrastructure to deliver the water	Water Supply Infrastructure (Other WMS)	New	8/15/2019	No project sponsors identified

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5. Status Update on Strategy Evaluations

Strategy	WUG	Strategy Type	New, Update, or Limited Update	Date Started	Status
Advanced Water Conservation	Irrigation in Lower Basin	Conservation	New	7-Mar-19	in progress
Drought Management	Irrigation in Lower Basin	Drought Management	Update	15-Aug-19	in progress
Brackish Groundwater Desalination	Austin	Groundwater Development	New	5/13/2019	internal review
Groundwater Importation – Hays County Pipeline	West Travis County PUA, Hays County-Other, and other potential WUGs	Groundwater Development	Update	8/1/2019	Coordinating with Region L
Groundwater Importation – Alliance Regional Water Authority Pipeline	Buda and potential other Hays County WUGs	Groundwater Development	Update to 2016 Plan HCPJA Pipe Line Strategy	8/1/2019	Coordinating with Region L
City of Austin Blackwater and Greywater Reuse	Austin	Reuse	Update to 2016 Plan Other Reuse strategy with new component	4/22/2019	pending data from Austin
City of Austin Decentralized Direct Non-Potable Reuse	Austin	Reuse	Update to 2016 Plan Other Reuse strategy with new components	5/9/2019	pending data from Austin
Community-Scale Stormwater Harvesting	Austin	Other surface water	New	5/1/2019	pending data from Austin
Reuse (Direct Potable Reuse)	West Travis County PUA	Direct Potable Reuse	New	5/2/2019	in progress
	Dripping Springs WSC	Direct Potable Reuse	New	5/2/2019	in progress
CRA – Prairie Site Off-Channel Reservoir	Buda	Direct Potable Reuse	Update	4/22/2019	in progress
	LCRA	New Major Reservoir	Update	6/25/2019	in progress
City of Wharton Water Supply Strategy	Wharton	Reuse, Other surface water, Other	Update	6/10/2019	in progress
Brush Management	Marble Falls, Burnet County-Other, other potential WUGs	Other WMS	Limited Update	8/15/2019	in progress
City of Austin Return Flows	Austin, Irrigation, Steam-Electric, LCRA	Other surface water	Update (requires modeling and coordination with Austin)	8/15/2019	in progress
New LCRA Contracts	Need to determine	Other	New	9/3/2019	internal review
New LCRA Contracts Requiring Infrastructure	Need to determine	Other	New	9/3/2019	internal review
LCRA Contract Amendments	Need to determine	Other	New	9/3/2019	internal review
LCRA Contract Amendments Requiring Infrastructure	Need to determine	Other	New	9/3/2019	internal review
New Water Purchase Strategy	Need to determine	Other	New	9/3/2019	internal review
New Water Purchase Strategy Requiring Infrastructure	Need to determine	Other	New	9/3/2019	internal review
Water Purchase Amendments	Need to determine	Other	New	9/3/2019	internal review
Water Purchase Amendments Requiring Infrastructure	Need to determine	Other	New	9/3/2019	internal review
CRA Baylor Creek Reservoir	New supply for LCRA	Off-Channel Reservoir	Limited Update	8/15/2019	internal review
Supplement Bay and Estuary Inflows with Brackish Groundwater Thereby Replacing Demands on LCRA	New supply for LCRA	Brackish Groundwater Development	Limited Update	8/15/2019	internal review
Highland Lakes Firm Yield	New supply for LCRA	Brackish Groundwater Development	Limited Update	8/15/2019	internal review
CRA groundwater expansion/development strategies	LCRA	Groundwater Development	Update	8/6/2019	internal review

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5. Status Update on Strategy Evaluations

Strategy	WUG	Strategy Type	New, Update, or Limited Update	Status
LCRA Aquifer Storage and Recovery (ASR) in Carrizo-Wilcox	New supply for LCRA	Aquifer Storage and Recovery	Update	not started
Brackish Groundwater Desalination	LCRA	Groundwater Development	New	not started
Groundwater Importation – Carrizo-Wilcox to LCRA System	New supply for LCRA	Groundwater Development	Update	not started
City of Austin Centralized Direct Non-Potable Reuse	Austin	Reuse	Update	not started
Reservoir Capacity Expansion	Llano, possibly others	Other surface water	New	not started
Amendment to Existing Water Rights/Permits	LCRA, COA	Other	Update	not started
LCRA - Mid-Basin Off-Channel Reservoir	LCRA	New Major Reservoir	Update	not started
LCRA - Excess Flows Off-Channel Reservoir	LCRA	New Major Reservoir	Update	not started
Amendments to LCRA Water Management Plan	LCRA, Irrigation (interruptible water)	Other	Update	not started
Import Return Flows from Williamson County	LCRA	Other surface water	Update	not started
Enhanced Recharge and Conjunctive Use	LCRA	Other	Update	not started

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Agenda Item 6

GOLDTHWAITE STRATEGY REQUEST

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6. Goldthwaite Strategy Request

- ▼ Goldthwaite (through Jordan Furnans) recently requested to include a few strategies in the 2021 Plan.
- ▼ Late in the planning process – asked him to come present and allow committee to ask questions.
- ▼ Want to discuss how to proceed with scoping and evaluation after presentation and questions.

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UPDATE TO DRAFT STRATEGIES BASED ON COMMITTEE COMMENTS

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7. Update to Draft Strategies Based on Committee Review

▼ Changes Based on Meeting Discussion August 8, 2019

- BS/EACD Edwards/Middle Trinity ASR
 - Sunset Valley requested to be taken off the strategy. The WUG completed a planning project this summer, and ASR was not selected as a long-term strategy.
- BS/EACD Saline Edwards ASR
 - No changes
- Municipal Conservation
 - Added in language regarding HB 807.
- Rainwater Harvesting
 - Clarified language; rebates require large-scale systems with a minimum storage of 900 gallons (Sunset Valley) and 2,500 gallons (Hays County).

▼ Are these ready to move to RWPG review?

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Agenda Item 8

PRESENTATION AND DISCUSSION OF DRAFT EXPAND USE OF LOCAL GROUNDWATER AND DEVELOPMENT OF NEW GROUNDWATER STRATEGY EVALUATIONS

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8. Expand Use of Local Groundwater

- ▼ Expand Local Use of Groundwater involves pumping additional groundwater from an aquifer that the WUG is currently using as a source, either using the WUG's existing wells or drilling additional wells.
 - Yield methodology reviewed previously by WMS committee & presented to RWPG.

Aquifer	WUG	County	River Basin	Yield (ac-ft/yr)						Project Cost	Unit Cost (\$/ac-ft)
				2020	2030	2040	2050	2060	2070		
Carrizo-Wilcox	Aqua WSC	Bastrop	Brazos (to Colorado)	0	100	250	500	800	800	\$9,163,000	\$990
Carrizo-Wilcox	Aqua WSC	Bastrop	Colorado	0	200	100	50	0	0	\$9,163,000	\$990
Carrizo-Wilcox	Elgin	Bastrop	Colorado	0	0	0	0	50	50	\$0	\$60
Edwards-BFZ	Pflugerville	Travis	Colorado	0	0	20	20	20	20	\$0	\$50
Edwards-BFZ	Sunset Valley	Travis	Colorado	0	0	50	50	50	50	\$0	\$60
Ellenburger-San Saba	Johnson City	Blanco	Colorado	0	100	100	100	100	100	\$2,386,000	\$2,030
Ellenburger-San Saba	Bertram	Burnet	Colorado (to Brazos)	0	3,000	3,000	3,000	3,000	3,000	\$30,711,000	\$1,201
Ellenburger-San Saba	Mining	Burnet	Colorado	0	300	300	300	300	300	\$2,263,000	\$607

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8. Expand Use of Local Groundwater

Aquifer	WUG	County	River Basin	Yield (ac-ft/yr)						Project Cost	Unit Cost (\$/ac-ft)
				2020	2030	2040	2050	2060	2070		
Gulf Coast	Irrigation	Colorado	Brazos-Colorado	2,500	2,500	2,500	2,500	2,500	2,500	\$4,482,000	\$177
Gulf Coast	Corix Utilities Texas Inc.	Colorado	Colorado	0	0	0	1	2	4	\$0	\$50
Gulf Coast	County-Other	Colorado	Colorado	0	133	133	133	133	133	\$2,003,000	\$1,218
Gulf Coast	Irrigation	Colorado	Colorado	550	550	550	550	550	550	\$1,424,000	\$249
Gulf Coast	Irrigation	Colorado	Lavaca	5,000	5,000	5,000	5,000	5,000	5,000	\$8,774,000	\$171
Gulf Coast	Bay City	Matagorda	Brazos-Colorado	0	75	75	75	75	75	\$0	\$53
Gulf Coast	Irrigation	Matagorda	Colorado-Lavaca	300	300	300	300	300	300	\$1,431,000	\$430
Gulf Coast	Irrigation	Wharton	Brazos-Colorado	5,000	5,000	5,000	5,000	5,000	5,000	\$8,325,000	\$172
Gulf Coast	Wharton	Wharton	Brazos-Colorado	0	3,000	3,000	3,000	3,000	3,000	\$9,100,000	\$593
Gulf Coast	Irrigation	Wharton	Colorado	600	600	600	600	600	600	\$1,293,000	\$208
Sparta	County-Other	Fayette	Colorado	0	40	98	145	180	204	\$2,424,000	\$1,054

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8. Expand Use of Local Groundwater

Aquifer	WUG	County	River Basin	Yield (ac-ft/yr)						Project Cost	Unit Cost (\$/ac-ft)
				2020	2030	2040	2050	2060	2070		
Trinity	County-Other	Hays	Colorado	0	0	0	0	0	200	\$2,674,000	\$1,180
Trinity	Dripping Springs WSC	Hays	Colorado	0	0	300	300	300	300	\$3,507,000	\$1,023
Trinity	Mining	Hays	Colorado	600	600	600	600	600	600	\$2,409,000	\$373
Trinity	Irrigation	Mills	Brazos	300	300	300	300	300	300	\$1,323,000	\$403
Trinity	Garfield WSC	Travis	Colorado	0	0	0	7	26	47	\$0	\$85
Trinity	Manville WSC	Travis	Colorado	0	0	0	0	0	703	\$5,035,000	\$643
Yegua-Jackson	Mining	Fayette	Colorado	760	760	0	0	0	0	\$3,176,000	\$354

- ▼ Consultant developed additional alternative strategies for entities with groundwater strategies that exceed the Modeled Available Groundwater (MAG).

Aquifer	WUG	County	River Basin	Yield (ac-ft/yr)						Project Cost	Unit Cost (\$/ac-ft)
				2020	2030	2040	2050	2060	2070		
Carrizo-Wilcox	Aqua WSC	Bastrop	Brazos (to Colorado)	0	0	0	0	0	5,736	\$37,682,000	\$209
Carrizo-Wilcox	Aqua WSC	Bastrop	Colorado	0	5,500	5,500	5,500	13,385	13,385	\$37,682,000	\$209

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8. Expand Use of Local Groundwater

- ▼ Environmental impacts identify drawdown of aquifer relative to staying within the Desired Future Conditions, and what that drawdown is.
 - It is assumed that using water within the stated available yield should result in negligible impacts to springflows, but aquifer levels and springflows should be monitored.
- ▼ Generally, impacts to agriculture are negligible, based on staying within the MAG. Strategies providing supply to agriculture show a benefit to agriculture.
- ▼ For alternative strategies, exceeding the MAG, it states that the DFC may be exceeded, but does not specify a depth.

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8. Development of New Groundwater

- ▼ Development of New Groundwater involves drilling wells to pump groundwater from an aquifer that the WUG is currently not using as a source.
 - Methodology reviewed by WMS committee & RWPG.
 - Storage tanks added to costing of strategies for municipal WUGs.
 - Transmission line lengths and need for pump stations varied depending on water use category.

8. Development of New Groundwater

Aquifer	WUG	County	River Basin	Yield (ac-ft/yr)						Project Cost	Unit Cost (\$/ac-ft)
				2020	2030	2040	2050	2060	2070		
Ellenburger-San Saba	Mining	Burnet	Brazos	0	0	0	300	400	700	\$4,495,000	\$534
Gulf Coast	Irrigation	Matagorda	Colorado	510	510	510	510	510	510	\$1,195,000	\$180
Hickory	Mining	Burnet	Colorado	0	1,000	1,000	1,000	1,000	1,000	\$4,863,000	\$432
Marble Falls	Mining	Burnet	Colorado	0	0	1,000	1,000	1,000	1,000	\$3,345,000	\$307
Trinity	Hays	Hays	Colorado	0	100	100	100	100	100	\$3,361,000	\$2,270
Trinity	Elgin	Travis (Need in Bastrop)	Colorado	0	0	0	0	1,000	1,825	\$12,812,000	\$622
Trinity	Sunset Valley	Travis	Colorado	0	0	300	300	300	300	\$4,775,000	\$1,363
Trinity	Travis County MUD 10	Travis	Colorado	0	100	100	100	100	100	\$3,361,000	\$2,720
Yegua-Jackson	Manufacturing	Fayette	Lavaca	0	40	40	40	40	40	\$3,149,000	\$2,560

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PRESENTATION AND DISCUSSION OF DRAFT OCEANWATER DESALINATION STRATEGY EVALUATION

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9. Oceanwater Desalination

- ▼ Divert seawater from the Gulf of Mexico near the Matagorda Bay, treat the water using reverse osmosis (RO) filtration, and deliver treated water serve industrial users in and around Bay City.
 - Project sponsor pending
 - Yield = 22,400 AFY (online 2060)
 - Costs
 - Total Project Costs: \$575,331,000
 - Annual Cost: \$79,072,000
 - Unit Cost: \$3,530/ac-ft
 - Environmental Impacts
 - Environmental permitting and studies will be required to determine the impact of the intake structure on marine ecosystems. Oceanwater intakes, especially surface-level intakes, are prone to entrainment of aquatic organisms and their propagules (eggs, larvae, and spores), which leads to organism mortality. A number of threatened and/or endangered species are present in the project area.
 - Can reduce amount of water needed to be released from Highland Lakes.

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Agenda Item 10

PRESENTATION AND DISCUSSION OF DRAFT DIRECT REUSE (NON-POTABLE) STRATEGY EVALUATION

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10. Reuse

▼ Direct Non-Potable Reuse (11):

WUG	County	River Basin	Yield (ac-ft/yr)					Project Cost	Unit Cost (\$/ac-ft)	
			2020	2030	2040	2050	2060			2070
Blanco	Blanco	Guadalupe	0	146	146	146	146	146	\$1,529,000	\$904
Horseshoe Bay	Burnet, Llano	Colorado	0	154	154	154	154	154	\$1,270,000	\$688
Marble Falls	Burnet	Colorado	0	100	200	300	400	500	\$2,010,000	\$354
Meadowlakes	Burnet	Colorado	75	75	75	75	75	75	\$0	\$0
Fredericksburg	Gillespie	Colorado	0	132	132	132	132	132	\$9,280,000	\$508
Buda	Hays	Colorado	100	1,120	1,120	1,120	1,680	1,680	\$7,562,000	\$373
Dripping Springs WSC	Hays	Colorado	0	390	460	531	601	672	\$2,056,000	\$278
West Travis County PUA	Hays, Travis	Colorado	0	224	224	224	224	224	\$1,778,000	\$683
Lago Vista	Travis	Colorado	0	224	336	448	560	673	\$2,140,000	\$340
Lakeway MUD	Travis	Colorado	0	100	200	300	400	500	\$2,009,000	\$354
Travis County WCID 17	Travis	Colorado	0	510	510	510	510	510	\$10,737,000	\$1,700

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10. Direct Reuse (non-potable)

- ▼ Distribution level costs are not included in regional water planning.
- ▼ Environmental and agricultural impacts vary somewhat from WUG to WUG.
- ▼ Some WUGs that originally requested reuse in their survey, said no when we followed up.
- ▼ Three WUGs will also have direct potable reuse evaluated. Currently in progress.

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Agenda Item 11

PRESENTATION AND DISCUSSION OF DOWNSTREAM RETURN FLOWS STRATEGY EVALUATIONS

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11. Downstream Return Flows

- ▼ Return flows from Pflugerville.
- ▼ Assumed 60 percent of total demand, after removing drought management and conservation savings. Reduced yield further by 10 percent, to account for channel losses and evaporation.
- ▼ Yields increase by decade: 3,985 AFY (2020) – 8,267 AFY (2070)
- ▼ No costs. Assume yields are assigned as a benefit to LCRA.
- ▼ Return flows provide a positive impact to instream flows as the travel to the point of diversion.
- ▼ Negligible or positive impact to agriculture, depending on ultimate diversion point.

Agenda Item 12

UPDATE AND DISCUSSION OF IRRIGATION CONSERVATION WATER MANAGEMENT STRATEGY EVALUATIONS

12. Irrigation Conservation

Strategies	Considered in 2016?	Full, Limited or Initial Evaluation?	Status
Tail Water Recovery	No	Full	Draft write-up in review – costing
Sprinkler Irrigation	Yes	Limited	Draft write-up in review – costing
Irrigation Operations Conveyance Improvements	Yes	Limited	Draft write-up in progress – coordinating with LCRA
Real-Time Monitoring	No	Initial	Data collection
Drip Irrigation for Non-Rice Crops	No	Initial	Draft write-up in progress – water savings
On-Farm Conservation	Yes	Full	Draft write-up in progress

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12. Irrigation Conservation

▼ Drip Irrigation for Non-Rice Crops

- Status: preliminary strategy write-up (in progress)
 - Unable to verify savings per acre applied (ac-ft/ac)
 - “Recent studies have shown that drip irrigation can actually increase water consumption in some farm applications. The primary reason is that drip irrigation allows plants to grow at peak efficiency. As a result, according to a 2008 study in Proceedings of the National Academy of Sciences, total water use may increase. The study examined a portion of the Rio Grande Basin in New Mexico, and found that total water use increased by 36,700 acre-feet per year after a large-scale conversion of farms to drip irrigation.”
 - Continue progress?

▼ On-Farm Conservation

- Sub-strategies include: Precision Land Leveling, Multiple Field Inlets, Conveyance Improvements, Irrigation Pipeline
- Continue Progress on Reduced Levee Intervals?

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Agenda Item 13

UPDATE AND DISCUSSION OF LCRA WATER MANAGEMENT STRATEGY EVALUATIONS

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13. LCRA Strategy Evaluations

▼ Strategies under internal review

- LCRA Expand Groundwater in Bastrop County
- LCRA Groundwater for Fayette Power Plant – onsite (smaller yield within MAG)
- LCRA Alternative Groundwater for Fayette Power Plant – onsite (larger yield exceeding MAG)
- LCRA Groundwater for Fayette Power Plant – offsite
- LCRA Baylor Creek Reservoir
- Alternative LCRA Supplement Environmental Flows with Brackish Groundwater

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Agenda Item 14

UPDATE AND DISCUSSION OF CONTRACT/CONTRACT AMENDMENTS / WATER PURCHASE/WATER PURCHASE AMENDMENTS STRATEGY EVALUATIONS

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14. LCRA New Contracts/Contract Amendments

- ▼ Looking at which WUGs might benefit from new or additional LCRA water after groundwater options were reviewed.
- ▼ Evaluating which ones would need new or additional infrastructure to implement.
- ▼ Need to ensure that LCRA has sufficient strategy volumes to meet the needs.

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14. Water Purchase/Water Purchase Amendments

- ▼ WUGs in the region purchase water from water providers other than the three Major Water Providers. Assuming water is sold at retail cost, so there is no additional cost to the WUG.
 - Barton Creek WSC
 - Purchase Amendment from Travis County MUD 4
 - Cost per 1,000 gallons: \$5.00 > Cost per ac-ft: \$1,629
 - Creedmoor Maha WSC
 - Purchase Amendment from Aqua WSC
 - Cost per 1,000 gallons: \$3.75 > Cost per ac-ft: \$1,222
 - Travis County MUD 14
 - Purchase Amendment from Aqua WSC
 - Cost per 1,000 gallons: \$3.75 > Cost per ac-ft: \$1,222
 - Hays County Mining
 - New Purchase from Buda (reuse) - Included in 2016 RWP
 - Cost per 1,000 gallons: \$4.90 > Cost per ac-ft: \$1,597

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Agenda

15. New / Other Business
16. Schedule next meeting
17. Public Comments
18. Adjourn

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