

2018 Bond Program Monthly Update

Harris County Commissioners Court – December 2021



We have officially recognized Halls Bayou and Greens Bayou as two separate watersheds, increasing the official number of watersheds in Harris County from 22 to 23.

This decision builds on decades of work and investment in these watersheds to create and implement distinct flood risk reduction projects, including the development of the Halls Implementation Plan and the Greens Bayou Mid-Reach Program. The designation reinforces our commitment to each watershed and will hopefully help to clarify our work for the community.

This designation change will not impact our current project numbering system. Halls Bayou itself will remain P118-00-00 and projects will still begin with "P118" or "P518" to keep existing and future documents consistent and reduce confusion.

In addition, we closed out 2021 strong with 22 Community Engagement meetings for the year.

Construction Contracts Awarded

Total – Count

42

Total – Amount

\$354M

Agreements Awarded

Last Month – Count

5

Last Month – Amount

\$335K

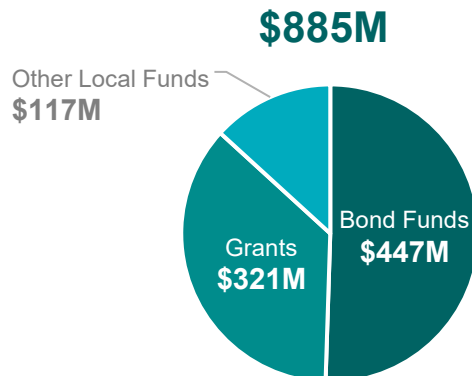
Total – Count

405

Total – Amount

\$296M

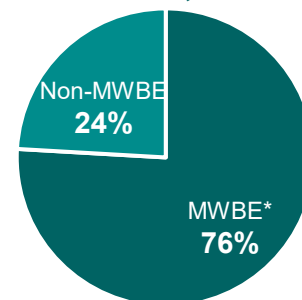
Total Spending through Nov 2021



Professional Services Invoices Paid

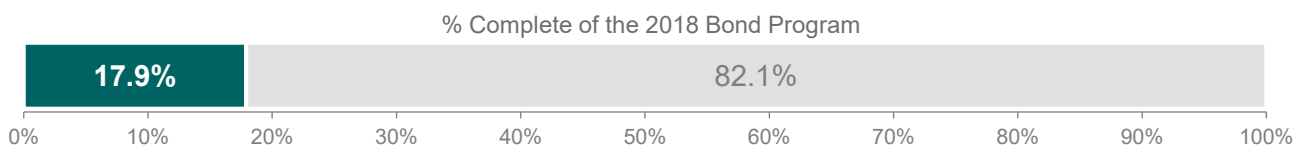
Total Invoiced – 11/1/2021 to 11/30/2021

\$338,032



*Minority- and/or Women Owned Business Enterprises (MWBE)

Overall Progress



Key Performance Indicators*

CPI
CPI has been removed as a metric to indicate project cost performance due to the uncertain nature of ROW Acquisitions and Home Buyouts causing an unreliable trend in spending forecast.

SPI
1.00

*CPI is Cost Performance Index and SPI is Schedule Performance Index. Closest to 1 is the best, with anything above or below that as indicators for trending. For CPI, anything above a 1 indicates a trend of being under budget and under 1 over budget. For SPI, anything above 1 indicates ahead of schedule and under 1 behind schedule.

Home Buyouts

Home Buyouts in Progress Home Buyouts Completed
Includes CSD Mandatory Buyouts

613

676

Buyouts Funding Secured
– Total

Buyouts Funding Secured –
Spent to Date

\$515.9M

\$139.7M

Projects Changing Lifecycle Stages

Bond ID	Project ID	Project Name	Stage Ending	Stage Starting
C-15	E500-25-00-E001	Arbor Oaks Detention Basin	Preliminary Engineering	Design
C-18	H100-00-00-E004	Hunting Bayou Federal Flood Risk Management Project - DS 104 Channel Improvement from Homestead Detention Basin Outfall to Liberty Rd. and Dabney St. Pedestrian Bridge Replacement	Construction	Turnover & Startup
C-33	P500-04-00-E002	E & R Agreement - N Houston Trucking	Construction	Turnover & Startup
F-107	R100-00-00-E004	R100-00-00 Channel Improvements and Mitigation Detention Basin	Project Initiation	Preliminary Engineering
No Bond ID	E100-00-00-X164	2021 White Oak Bayou Federal Repairs	Design	Construction

In the News

The following represent construction notices distributed by the Harris County Flood Control District in November 2021. To view more information, log on to hcfcd.org and visit the "Latest News" section.

Construction Update for Drainage Repairs in the Armand Bayou Watershed

In Fall 2021, the Flood Control District will begin construction in your area on a maintenance project that will address slope failure repairs from Space Center Boulevard to Armand Bayou.

Construction equipment will access the work area via Armand Bayou. Motorists are urged to be alert to truck traffic when passing near construction access points and along truck routes. The Flood Control District appreciates your patience through the duration of this project.

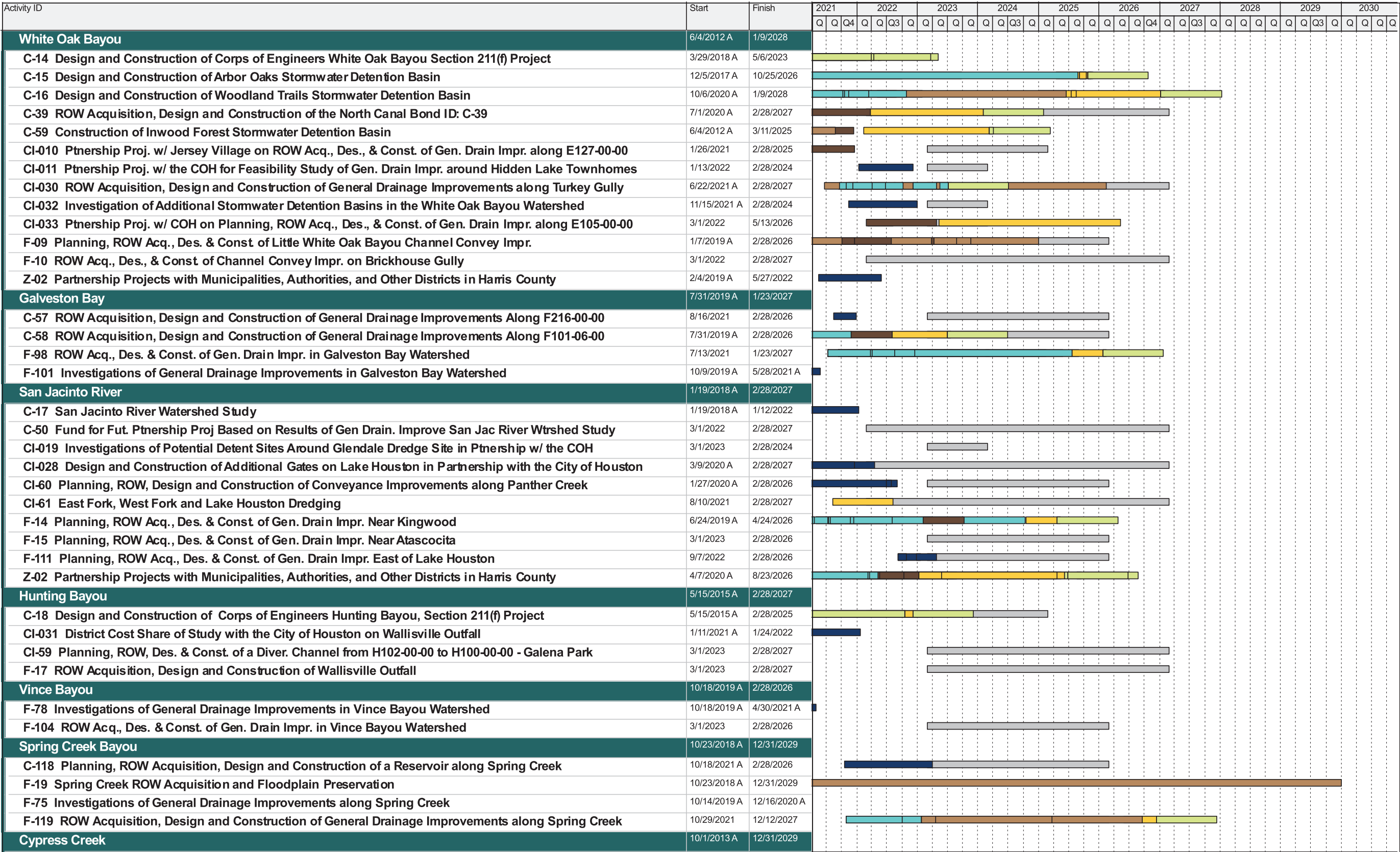
More information may be available on the Flood Control District's website, www.hcfcd.org/maintenance. Should you have any questions or comments, please visit www.hcfcd.org/contact-us.

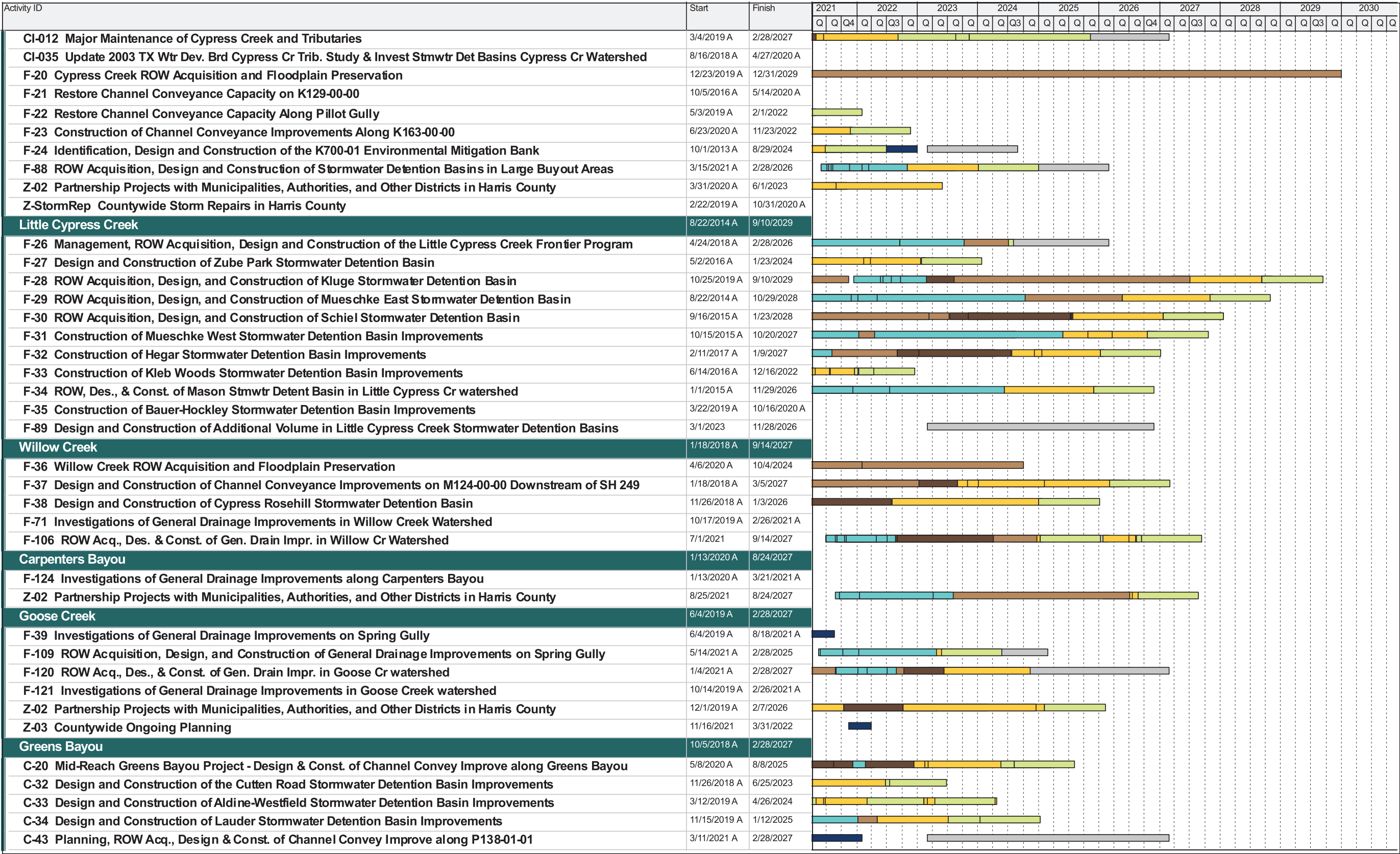
Project Name: B115-00-00-X013 Slope Repairs
Package ID: Z100-00-00-X281
Project ID: B115-00-00-X013
Precinct: 2
Contractor: Lecon
Contract Amount: Approx. \$393,228
Construction Start: Fall 2021
Construction Duration: 60 days

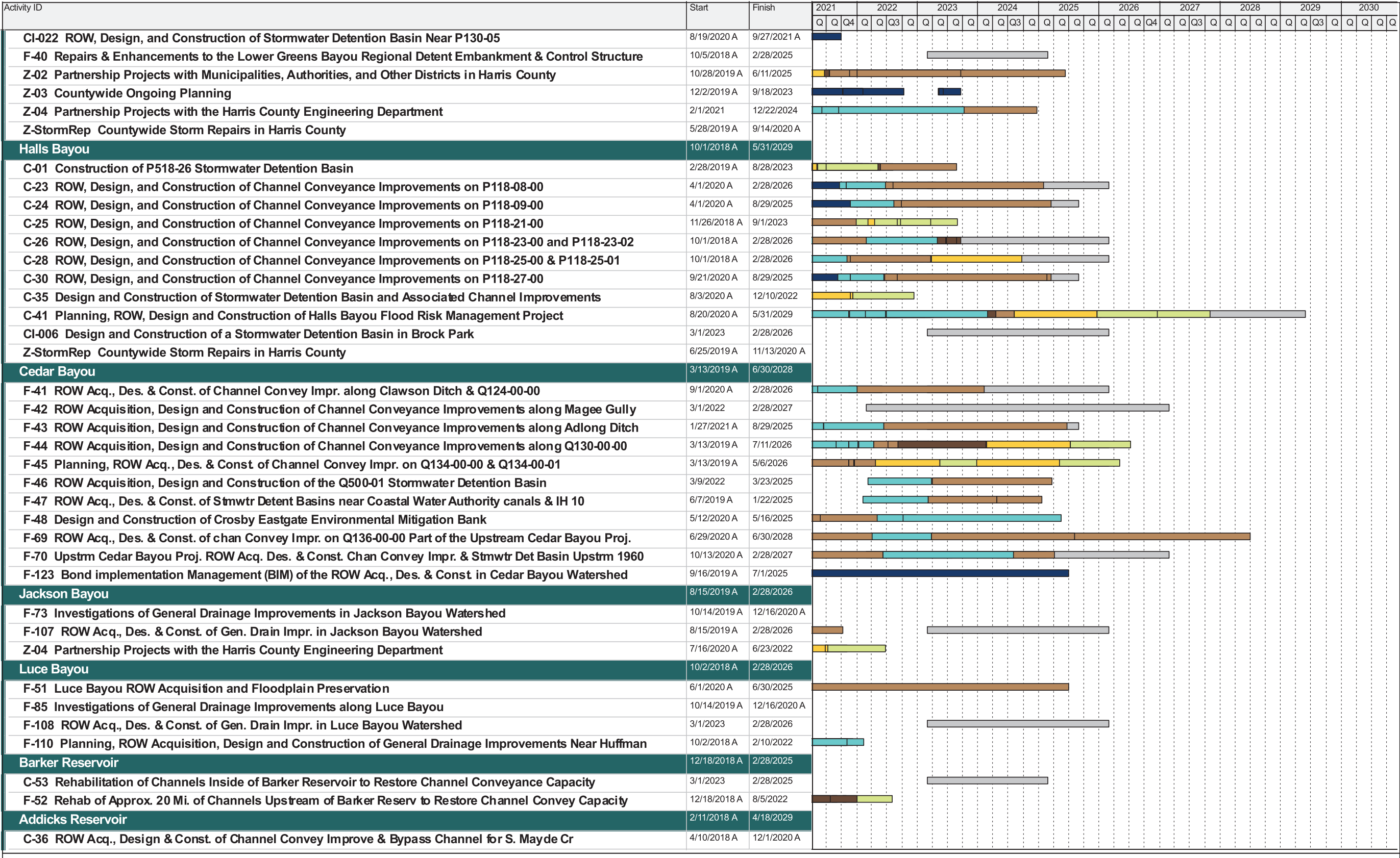
Project Web Page:
www.hcfcd.org/contact-us

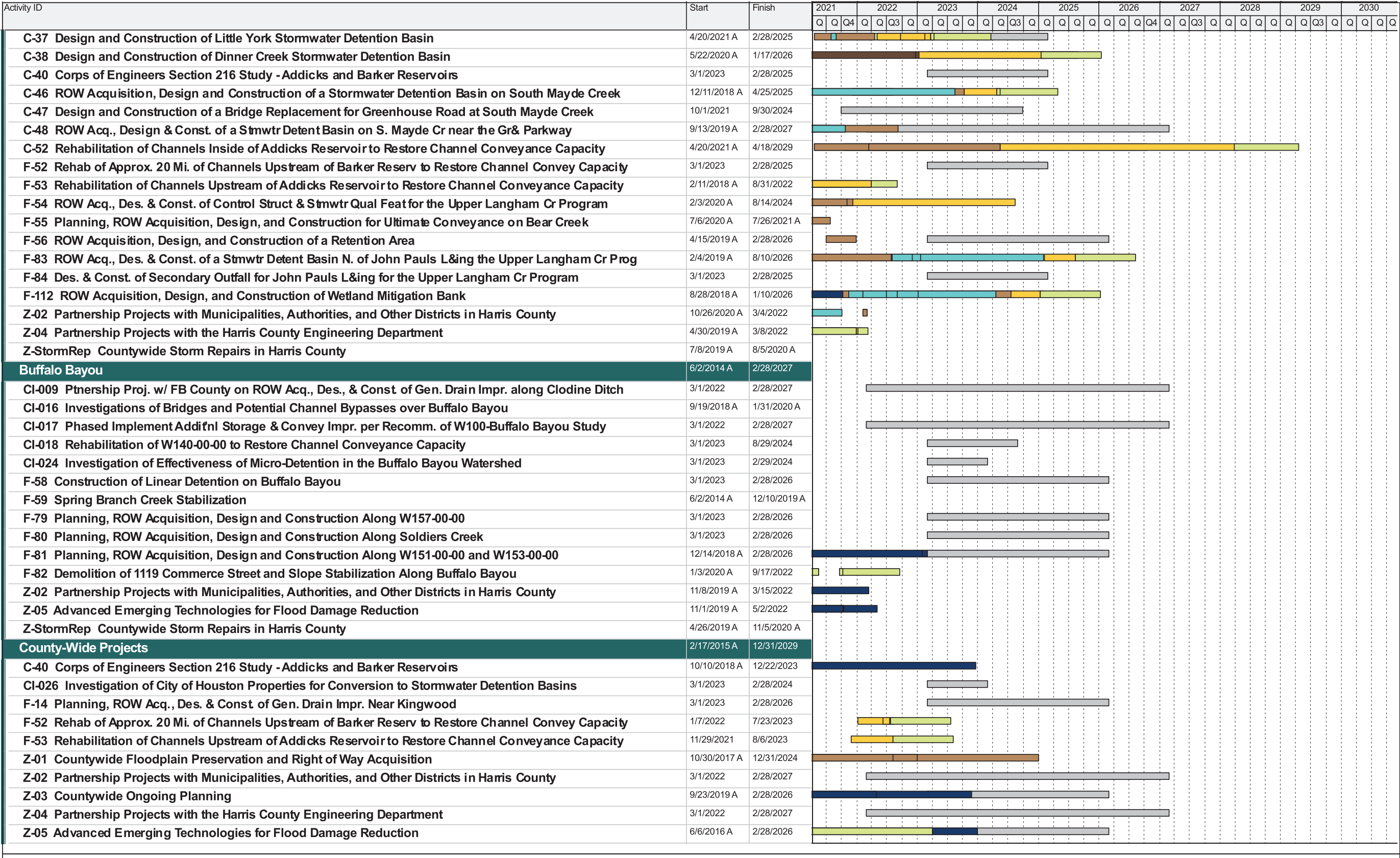
2018 Bond Program Master Schedule

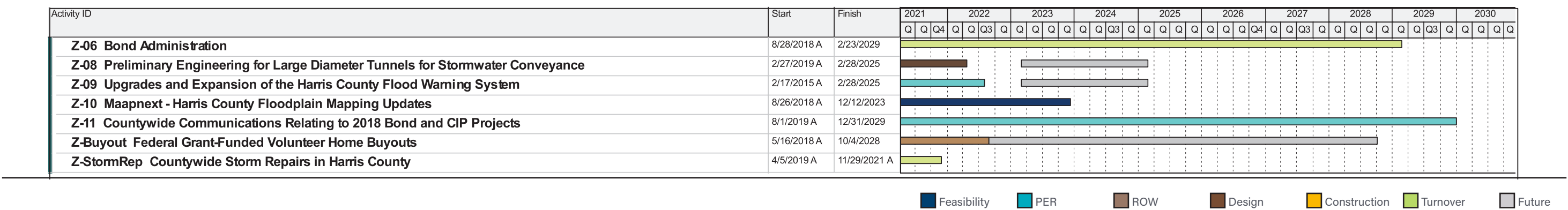
Activity ID	Start	Finish	2021	2022			2023			2024			2025			2026			2027			2028			2029			2030					
			Q	Q	Q4	Q	Q	Q3	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q				
Clear Creek			5/16/2016 A	12/28/2028																													
C-03 ROW Acq., Design & Const. of Corps of Engineers Clear Cr Federal Flood Risk Management Project	6/6/2019 A	12/28/2028																															
C-05 Const. of S. Belt Stmwtr Detent Basin Along Beamer Rd & Dagg Rd Stmwtr Detent Basin on Clear Cr	11/16/2018 A	7/14/2023																															
CI-001 Rehabilitation of the Clear Creek channel to Restore Channel Conveyance Capacity	1/1/2019 A	2/28/2027																															
CI-003 Rehabilitation of the A214-00-00 channel to Restore Channel Conveyance Capacity	3/1/2023	8/29/2024																															
CI-013 Restore Channel Conveyance Capacity on A104-00-00	3/1/2023	2/28/2025																															
CI-039 Partnership Project with Nassau Bay to Reduce the Risk of Flooding	2/18/2019 A	2/26/2019 A																															
CI-62 Construction of Stormwater Detention Basins Near FM 528 and Dixie Farm Road in Friendswood	12/1/2018 A	2/27/2026																															
F-01 ROW Acquisition, Design, and Construction of Channel Conveyance Improvements on A135-00-00	5/11/2020 A	8/10/2023																															
F-02 ROW Acquisition, Design and Construction of Hughes Stormwater Detention Basin on Clear Creek	5/16/2016 A	9/13/2024																															
F-76 Identification, Design and Construction of the A700-01 Environmental Mitigation Bank	12/4/2018 A	11/19/2026																															
Z-02 Partnership Projects with Municipalities, Authorities, and Other Districts in Harris County	7/1/2019 A	1/30/2024																															
Armand Bayou			12/3/2018 A	5/16/2027																													
C-06 ROW Acquisition, Design and Construction of B112-00-00 and Tributaries Conveyance Improvements	11/15/2019 A	1/13/2024																															
C-07 Design and Construction of the B509-03-00 and B509-04-00 Stormwater Detention Basins	12/15/2020 A	8/29/2025																															
C-44 Armand Bayou ROW Acquisition and Floodplain Preservation	8/1/2019 A	8/29/2025																															
CI-021 Brookglen Flooding Mitigation Analysis	3/12/2019 A	2/26/2020 A																															
CI-023 ROW, Design and Construction of Conveyance Improvements along Horsepen Bayou	12/3/2018 A	4/26/2024																															
F-72 Design and Construction of the Baywood Stormwater Detention Basin	1/21/2019 A	1/13/2024																															
F-96 Investigations of General Drainage Improvements in Armand Bayou Watershed	10/8/2019 A	4/30/2021 A																															
F-99 ROW, Design and Construction of Conveyance Improvements along Armand Bayou	10/1/2021	5/16/2027																															
Z-02 Partnership Projects with Municipalities, Authorities, and Other Districts in Harris County	5/29/2020 A	11/14/2023																															
Sims Bayou			5/18/2018 A	1/8/2028																													
C-08 ROW Acq., Design, & Const. of Stmwtr Detent Basin & Channel Convey Improve along Salt Water Ditch	3/30/2020 A	2/28/2026																															
C-09 ROW Acq., Design, & Const. of S. Post Oak Stmwtr Detent Basin & Channel Convey Improve C147-00-00	5/18/2018 A	3/31/2027																															
C-10 Design and Construction of South Shaver Stormwater Detention Basin	1/31/2020 A	8/29/2025																															
CI-027 Planning, ROW Acq., Des., & Const. of Impr. for the Tributaries of C106-00-00	3/1/2023	8/29/2024																															
CI-029 Restore Channel Conveyance Capacity Along C102-00-00	7/27/2022	2/28/2026																															
CI-037 Restore Channel Conveyance Capacity Along C146-00-00	3/1/2022	2/28/2026																															
F-92 Planning, ROW Acquisition, Design and Construction Along C116-00-00	10/16/2020 A	2/28/2026																															
F-93 Planning, ROW Acquisition, Design and Construction Along C124-00-00	6/1/2021	2/28/2026																															
F-94 Planning, ROW Acquisition, Design and Construction Along C143-00-00	2/26/2021 A	2/28/2026																															
F-95 Planning, ROW Acquisition, Design and Construction Along C144-00-00	4/1/2020 A	1/8/2028																															
Brays Bayou			9/30/2002 A	8/26/2044																													
C-11 Design and Construction of Project Brays Corps of Engineers Section 211(f) Project	9/30/2002 A	6/16/2023																															
C-12 ROW, Design and Construction of Conveyance Improvements along Poor Farm Ditch	3/1/2023	2/28/2026																															
C-13 Planning, ROW, Design and Construction of Conveyance Improvements along Bintliff Ditch	11/5/2019 A	2/28/2026																															
CI-025 Investigation of Additional Stormwater Detention Basins in the Brays Bayou Watershed	3/1/2023	2/29/2024																															
CI-034 Investigation of Channel Improvements Upstream of Fondren Road on Brays Bayou	8/2/2021 A	2/28/2024																															
CI-038 Restore Channel Conveyance Capacity Along D115-00-00	3/1/2022	2/28/2026																															
F-07 Planning, ROW Acq., Des., & Const. of Channel Convey Impr. on Keegans Bayou	12/17/2019 A	2/28/2027																															
F-08 Planning, ROW Acq., Des., & Const. of Channel Convey Impr. on Fondren Diversion Channel	3/3/2021	2/28/2026																															
Z-02 Partnership Projects with Municipalities, Authorities, and Other Districts in Harris County	5/2/2019 A	7/11/2023																															
Z-04 Partnership Projects with the Harris County Engineering Department	12/31/2040 A	8/26/2044 A																															

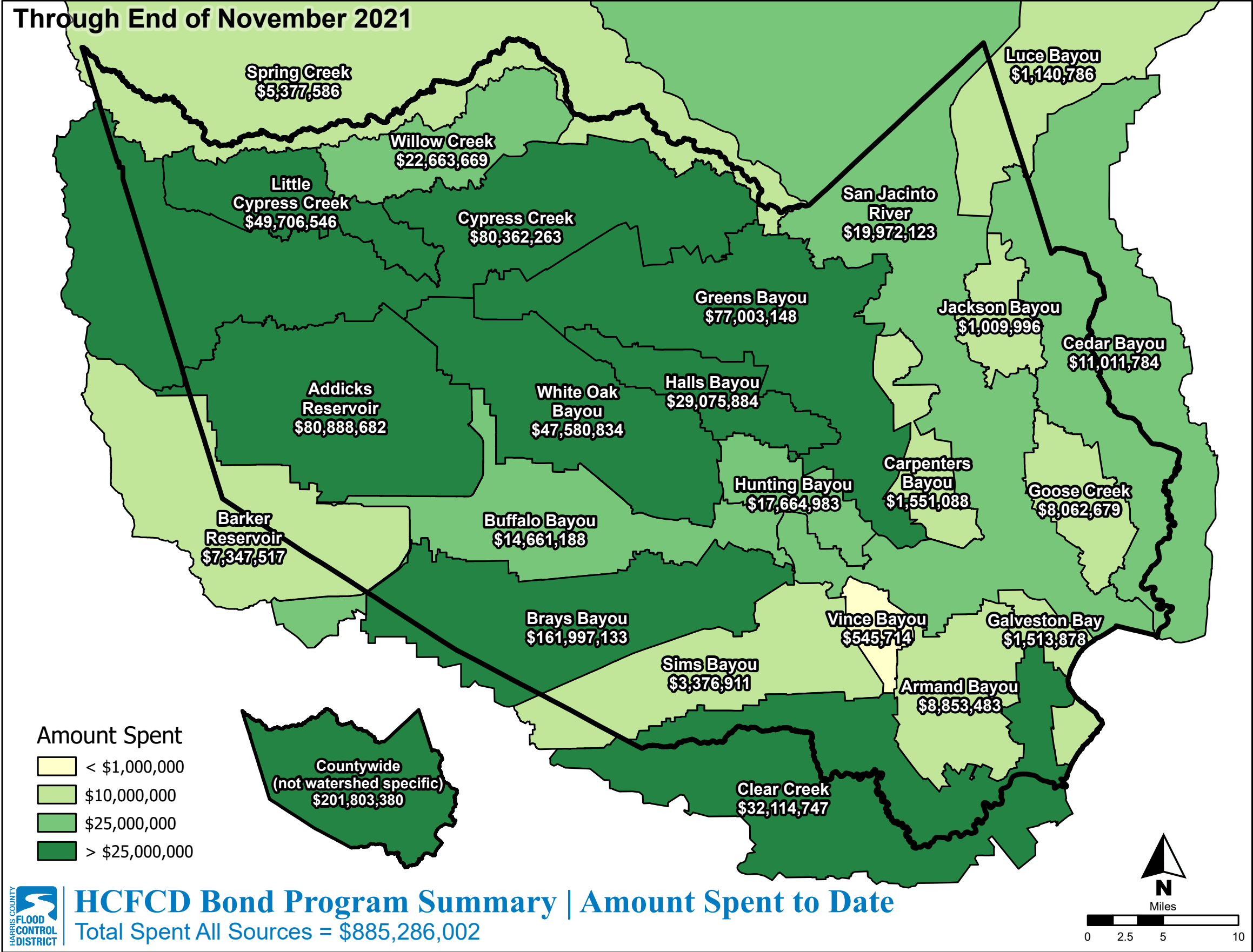


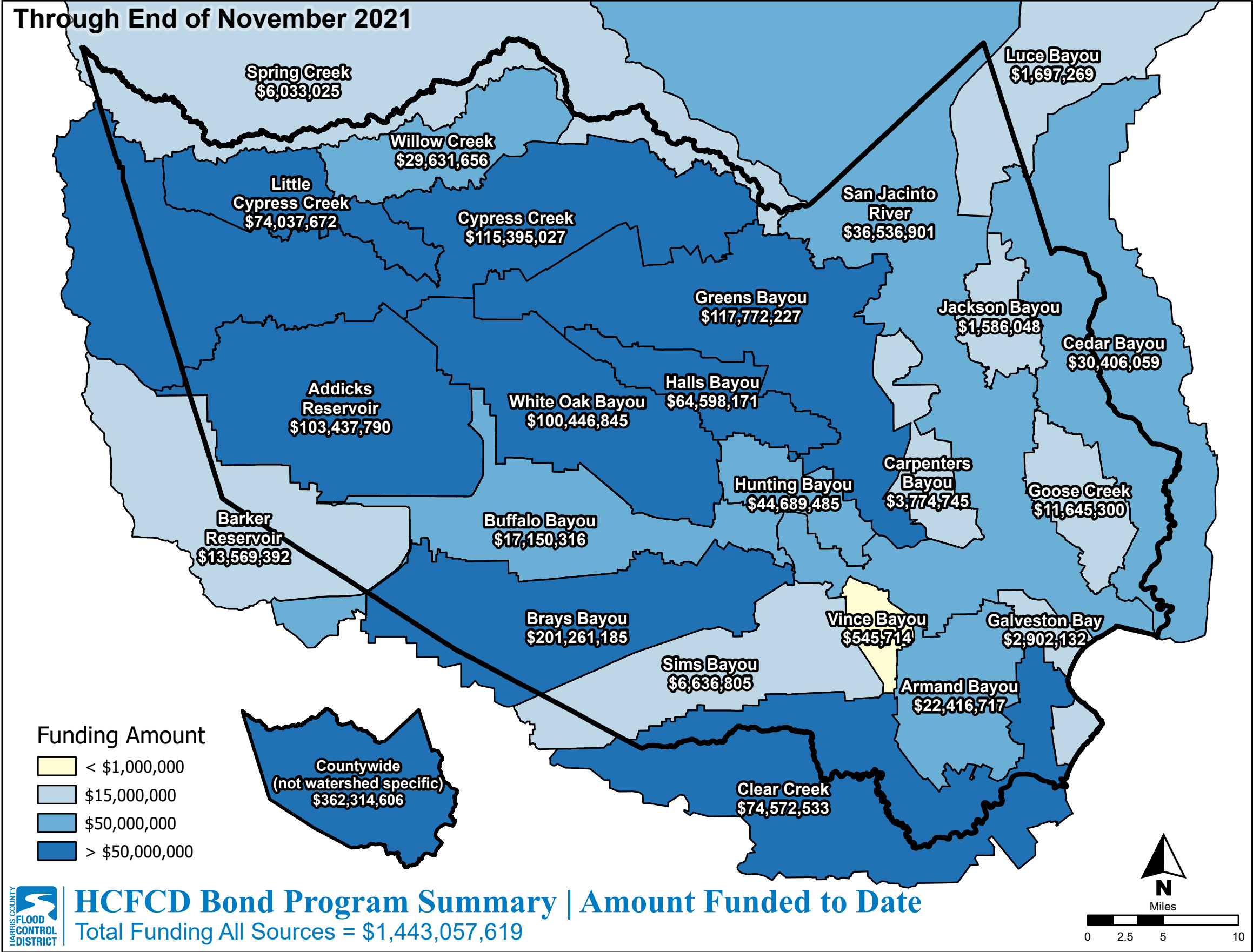












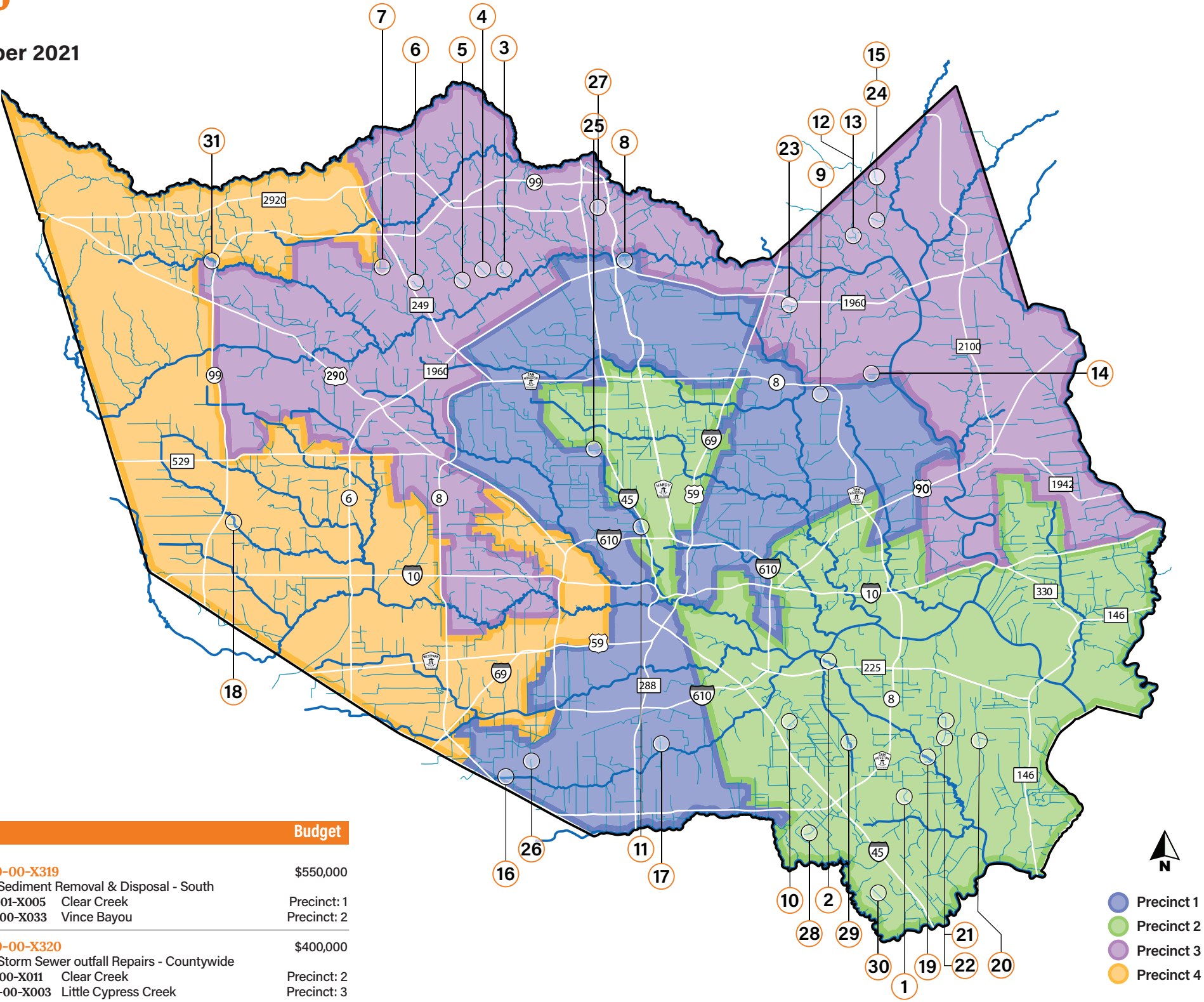


Maintenance Projects

Total Budget: \$60,020,904
Active Construction Projects - December 2021

Project		Budget
1	B504-01-00-X003 Armand Bayou Basin modifications to reduce standing water	\$955,531 Precinct: 2
2	I101-00-00-X018 Vince Bayou Erosion Repairs from Richey St. to Shaver St.	\$751,000 Precinct: 2
K100-00-00-X084 Major Maintenance of Cypress Creek Tributaries		\$13,430,031
3	K131-00-00-X029 Cypress Creek	Precinct: 3
4	K131-02-00-X027 Cypress Creek	Precinct: 3
5	K133-00-00-X034 Cypress Creek	Precinct: 3
K100-00-00-X085 Major Maintenance of Cypress Creek Tributaries		\$3,299,607
6	K140-04-00-X001 Cypress Creek	Precinct: 3
7	K142-07-00-X013 Cypress Creek	Precinct: 3
8	K117-00-00-X003 Cypress Creek Reinforced Concrete Spillway and Stilling Basin	\$1,197,520 Precinct: 1
9	P700-01-00-X018 Greens Bayou Wetland Mitigation Bank access road repairs	\$1,350,283 Precinct: 1
Z100-00-00-X261 Addicks Watershed De-Silt Project		\$2,703,890
10	C106-03-00-X016 Sims Bayou	Precinct: 2
11	E101-00-00-X048 White Oak Bayou	Precinct: 1
Z100-00-00-X280 General Drainage System Repairs - North		\$16,396,126
12	G103-33-00-X007 San Jacinto River	Precinct: 3
13	G103-33-00-X008 San Jacinto River	Precinct: 3
14	G103-53-00-X002 San Jacinto River	Precinct: 3
15	G103-80-03.1-X032 San Jacinto River	Precinct: 3
Z100-00-00-X281 General Drainage System Repairs - South		\$16,569,166
16	C100-00-00-X060 Sims Bayou	Precinct: 1
17	C128-00-00-X002 Sims Bayou	Precinct: 1
18	U101-08-00-X011 Addicks Reservoir	Precinct: 4
Z100-00-00-X304 Drainage System Repairs - Southeast Area		\$1,392,750
19	B100-00-00-X011 Armand Bayou	Precinct: 2
20	B106-00-00-X011 Armand Bayou	Precinct: 2
21	B112-00-00-X009 Armand Bayou	Precinct: 2
22	B112-00-00-X010 Armand Bayou	Precinct: 2
Z100-00-00-X312 Drainage Sediment Removal & Disposal - North		\$725,000
23	G103-43-00-X004 San Jacinto River	Precinct: 3
24	G103-80-01-X010 San Jacinto River	Precinct: 3
25	P118-32-00-X008 Greens Bayou	Precinct: 1
Z100-00-00-X314 On-Call Sediment Removal County Wide		\$300,000
26	C132-00-00-X011 Sims Bayou	Precinct: 1
27	K120-00-00-X024 Cypress Creek	Precinct: 3

Project		Budget
Z100-00-00-X319 On-Call Sediment Removal & Disposal - South		\$550,000
28	A120-04-01-X005 Clear Creek	Precinct: 1
29	I100-00-00-X033 Vince Bayou	Precinct: 2
Z100-00-00-X320 On-Call Storm Sewer outfall Repairs - Countywide		\$400,000
30	A114-00-00-X011 Clear Creek	Precinct: 2
31	L500-09-00-X003 Little Cypress Creek	Precinct: 3



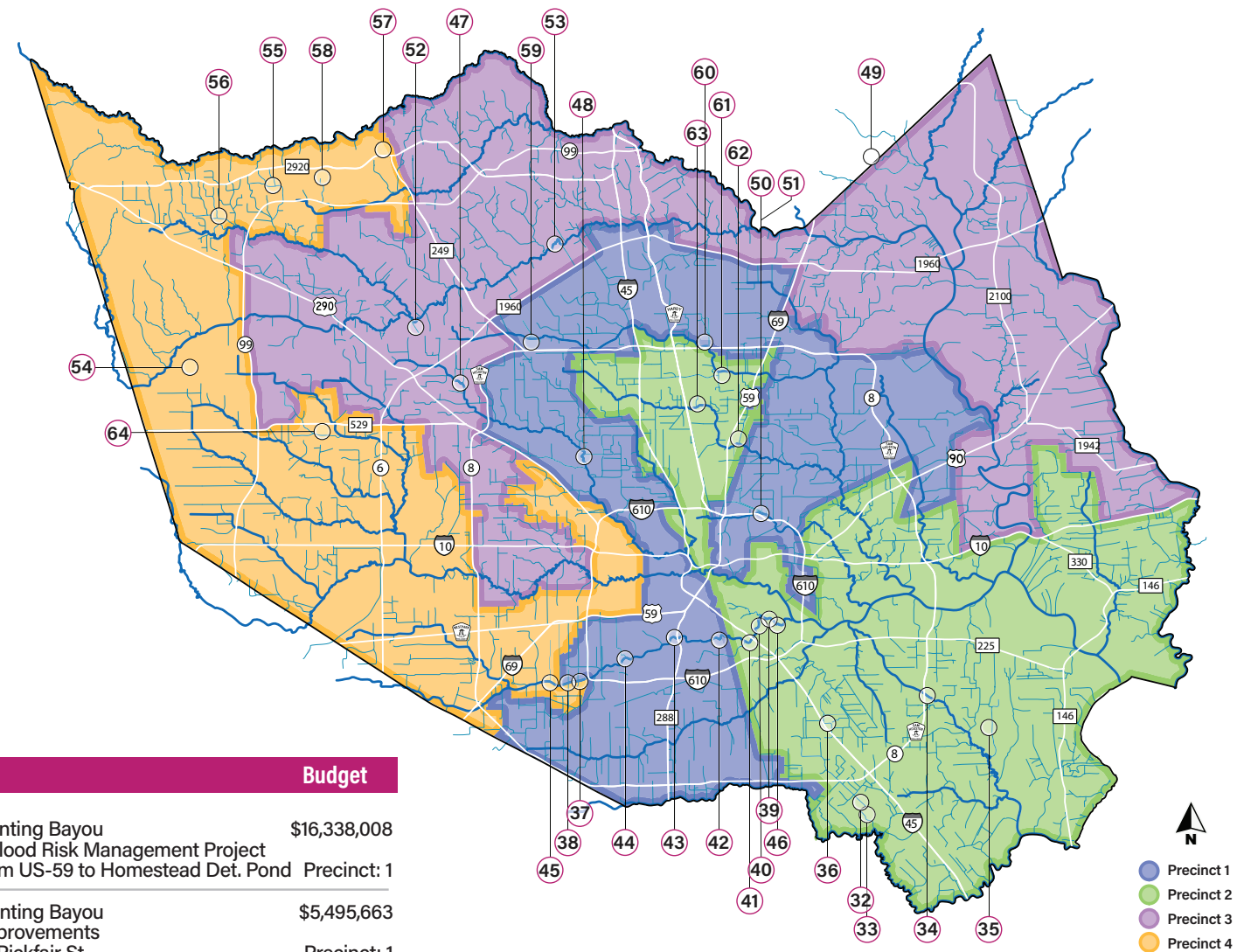


Capital Projects

Total Budget: \$232,400,105

Active Construction Projects - December 2021

Project	Budget
32 A120-00-00-C003 Clear Creek Mud Gully Channel Conveyance Improvements From Basin A520-03-00 to Sagerock Dr.	\$5,755,382 Precinct: 2
33 A520-00-00-E003 Clear Creek Phase 3 Construction of South Belt Stormwater Detention Basin	\$16,988,090 Precinct: 2
34 B100-00-00-E002 Armand Bayou Widening & Deepening of Armand Bayou Beltway 8 to Spencer Hwy	\$5,040,715 Precinct: 2
35 B509-03-00-E002 Armand Bayou Widening and Deepening of Armand Bayou at Beltway 8 East to Spencer Hwy	\$2,111,794 Precinct: 2
36 C106-03-00-C007 Sims Bayou Phase 4 Channel Conveyance Improvement East of I-45 at Shawnee to S. of Edgebrook	\$6,482,958 Precinct: 2
D100-00-00-B030 Brays Bayou Federal Flood Control Project Multi-Site Project	\$20,614,793
37 D100-00-00-B030 Brays Bayou South Rice Blvd. Bridge	Precinct: 3, 4
38 D100-00-00-B031 Brays Bayou Chimney Rock Bridge	Precinct: 3, 4
D100-00-00-B047 Brays Bayou Federal Flood Control Project Multi-Site Project	\$49,674,031 Precinct: 1, 2, 4
39 D100-00-00-B006 Brays Bayou S. 75th Bridge	Precinct: 2
40 D100-00-00-B008 Brays Bayou Lawndale Bridge	Precinct: 2
41 D100-00-00-B009 Brays Bayou Telephone Bridge	Precinct: 2
42 D100-00-00-B011 Brays Bayou Calhoun Bridge	Precinct: 1
43 D100-00-00-B015 Brays Bayou Almeda Bridge	Precinct: 1
44 D100-00-00-B026 Brays Bayou Buffalo Speedway Bridge	Precinct: 1
45 D100-00-00-B033 Brays Bayou Hillcroft Bridge	Precinct: 4
46 D100-00-00-B038 Brays Bayou UPRR Galveston Sub	Precinct: 2
47 E100-00-00-E005 White Oak Bayou Phase 4 Channel Conveyance Improvements E. of IH-45 at Shawnee to S. of Edgebrook	\$21,060,380 Precinct: 1, 3
48 E100-00-00-E006 White Oak Bayou White Oak Bayou Federal Flood Risk Reduction Project Channel Modifications - Discrete Segment 106 Cole Creek to Hollister Rd.	\$13,021,335 Precinct: 1
49 G503-06-00-E002 San Jacinto River Excavation & Removal Agreement Woodridge Stormwater Detention Basin	\$1,000 Precinct: 1



	Project	Budget
50	H100-00-00-E005 Hunting Bayou Hunting Bayou Federal Flood Risk Management Project Along Hunting Bayou from US-59 to Homestead Det. Pond	\$16,338,008 Precinct: 1
51	H100-00-00-E006 Hunting Bayou Channel Conveyance Improvements UPRR Yard Upstream to Pickfair St.	\$5,495,663 Precinct: 1
52	K163-00-00-E002 Cypress Creek Channel Conveyance Improvements Cypress Creek Confluence to Cypress N. Houston	\$8,003,743 Precinct: 3
53	K500-23-00-E001 Cypress Creek E&R Agreement: TC Jester Detention Basin East of T.C. Jester Blvd. & South of Cypresswood Dr.	\$1,225 Precinct: 4
54	K700-01-00-Y002 Addicks Reservoir Katy Hockley Mitigation Bank Intersection of Katy-Hockley Road and House-Hahl Road	\$4,369,191 Precinct: 4
55	L512-01-00-E004 Little Cypress Creek Kleb-Mueschke Stormwater Det. Basin Improvements Mueschke Rd., one-mile North of Grand Pkwy	\$2,821,976 Precinct: 4
56	L514-01-00-E002 Little Cypress Creek E&R Agreement: Bauer-Hockley Stormwater Det. Basin Bauer-Hockley Rd. East of Becker Rd.	\$1,000 Precinct: 4
57	M124-00-00-E001 Willow Creek Channel Excavation - Stormwater Detention Basin - Phase I SH 249 to FM 2920	\$3,548,377 Precinct: 4
58	M528-01-00-E001 Willow Creek E&R Agreement: Cypress Rosehill Stormwater Detention Basin Cypress Rosehill Rd. South of Seidel Cemetary Rd.	\$1,000 Precinct: 4

Project	Budget
59 P500-02-00-E013 Greens Bayou Cuttan Stormwater Detention Basin Improvements North of Beltway 8 and East of SH-249	\$14,213,282 Precinct: 1
60 P500-04-00-E005 Greens Bayou Aldine Westfield Stormwater Detention Basin - Phase 1 Lauder Road and JFK Boulevard	\$11,420,726 Precinct: 1
61 P500-06-00-E005 Greens Bayou Lauder Stormwater Detention Basin - Phase 1 Lauder Rd. & JFK Boulevard	\$15,744,721 Precinct: 2
62 P518-10-00-E002 Halls Bayou Excavation of Little York Basin & Hopper Basin North to Langely Rd., West to Hirsch Rd., East to US-59 and South to Hartwick Rd.	\$3,775,721 Precinct: 2
63 P518-11-00-E001 Halls Bayou Excavation of P518-11-00 Detention Basin Along Halls Bayou, West of Aldine-Westfield Rd., East of US -59 South of Aldine Mail Rd.	\$5,913,715 Precinct: 2
64 U520-01-00-E002 Addicks Reservoir E&R Agreement: Dinner Creek Stormwater Det. Basin FM-527 and Greenhouse Rd.	\$1,000 Precinct: 4