



Apache Creek Fish Kill 2020

August 18, 2020



Investigations Topics

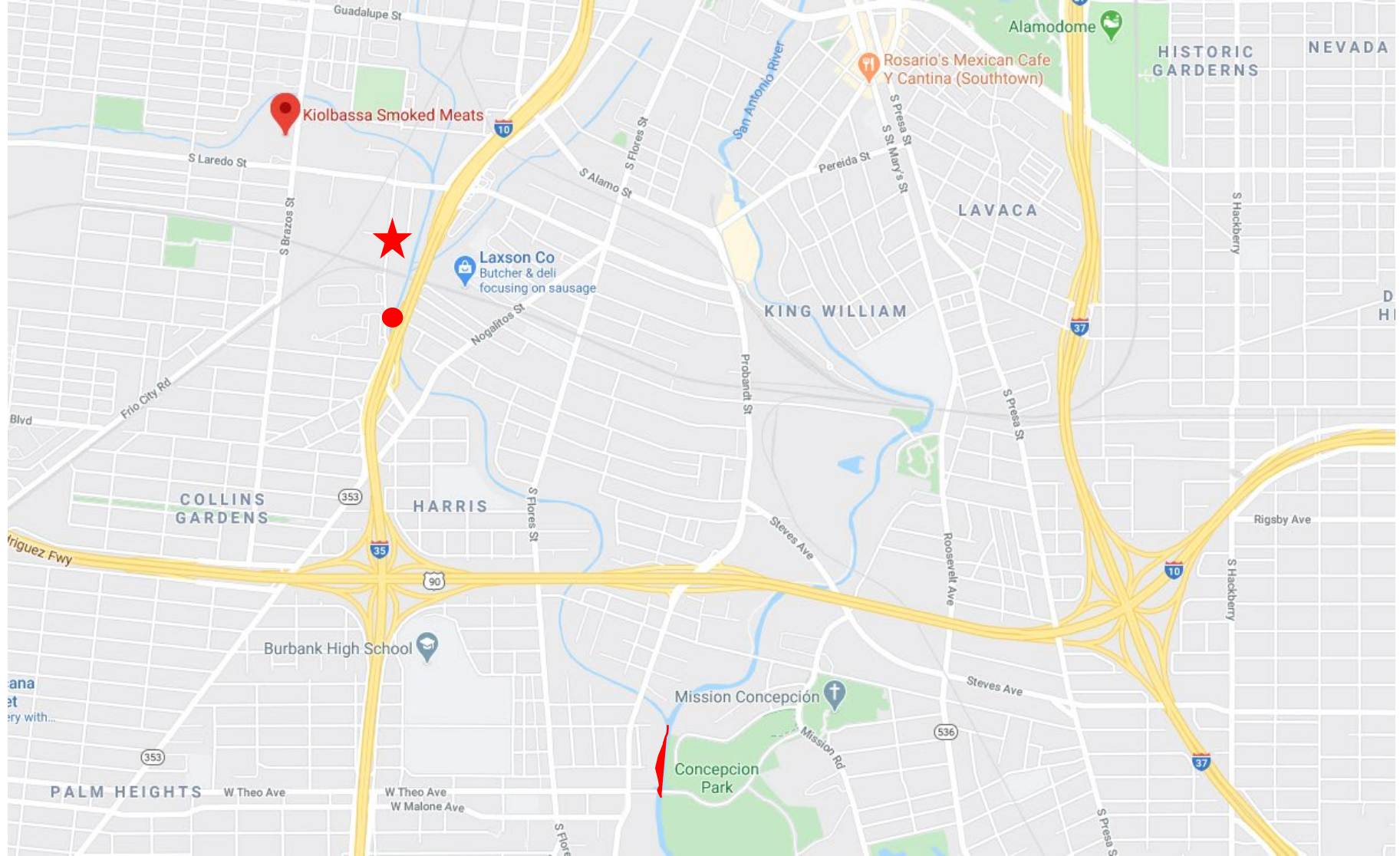
- Apache Creek Fish Kill
 - Monday June 29 at 11:45 pm approximately 1,300 gallons of ammonia was spilled at the Kiolbassa Plant
 - Tuesday June 30 around 12:00 am SAFD responded to the spill with water hoses to dilute.
 - The River Authority learned of the spill late afternoon June 30 from a citizen's call. The initial site visit revealed approximately 50 dead fish in Apache and San Pedro Creek. More dead fish were found in the San Antonio River on Wednesday, July 1
- Results
 - 5,500 total dead fish.
 - SARA notified SAWS. SARA learned that SAWS issued a notice of violation June 30
 - SARA notified TPWD on July 1. Restitution is being calculated.
 - SARA notified the TCEQ on July 1. TCEQ investigation is pending.



Environmental Impact

- River Authority biologists arrived at Apache Creek/SPC morning of July 1
- WPO staff arrived at SPC/MR confluence





Committed to Safe, Clean, Enjoyable Creeks and Rivers.

Environmental Impact

- No ammonia odor in air or water
- ESD collected 537 native fish, 14 species
- Approximately 300 additional non-native fish were noted



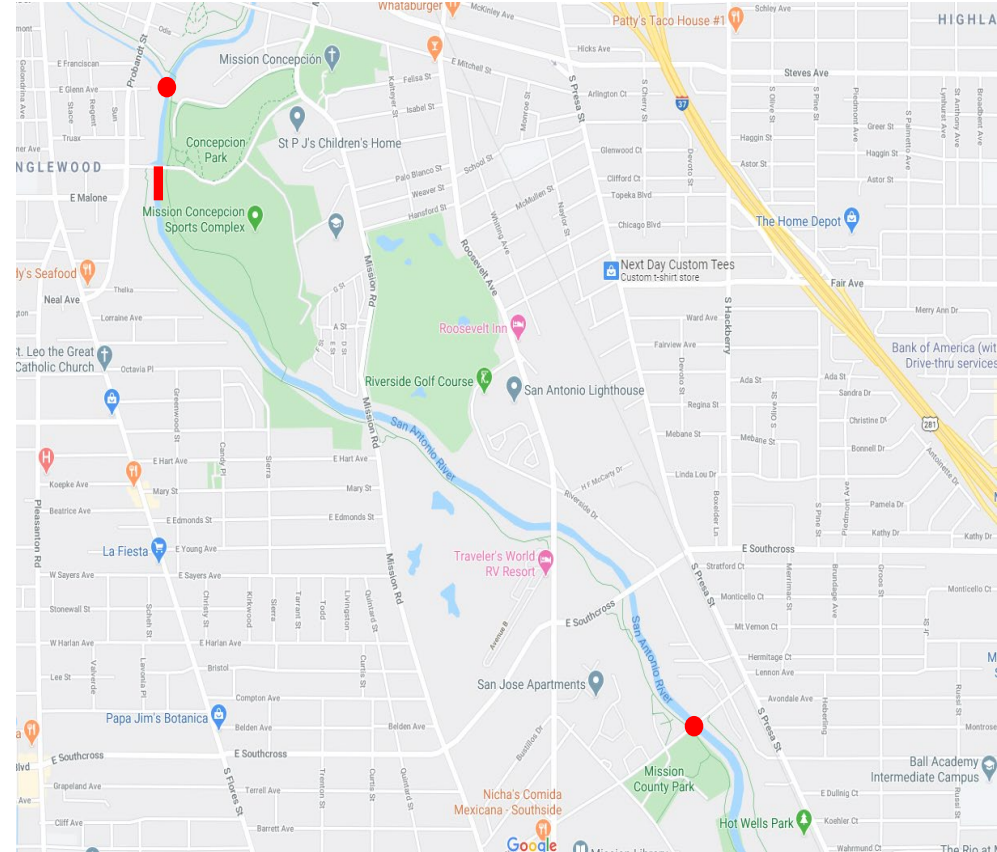
Environmental Impact

- WPO collected a similar number of fish
- Subsamples were used due to scale
- Recommended by the TPWD Kills & Spills Team



Environmental Impact

- Day 2 began with a team of ESD and WPO below Theo Ave.
- 515 ft = approx. 3,000 fish





Committed to Safe, Clean, Enjoyable Creeks and Rivers.

Environmental Impact

- Team of approximately 15 people on the water from Theo Ave. downstream
- Wading crew, kayak crew, transport crew



Environmental Impact

- Approximately 5,500 fish
- 20 species
- Subsample data went to TPWD KAST for extrapolation and restitution valuation



Species List
Spotted Bass
Largemouth Bass
Guadalupe Bass
Warmouth
Green Sunfish
Gizzard Shad
Yellow Bullhead
Bluegill
Central Stoneroller
Mexican Tetra
Amazon Molly
Western Mosquitofish
Sailfin Molly
Red Shiner
Grey Redhorse
Channel Catfish
Longear Sunfish
Common Carp
Blue Tilapia
Rio Grande Cichlid



Espada Remnant Fish Kill

- July 2016
- 12,600 fish
- Paper Pondshell mussel population



Apache Creek Fish Kill 2020

- Grey Redhorse
- Intermediate tolerance
- Catostomidae
- Benthic invertivore



Future Steps

- Working closely with TPWD KAST
- Internal meeting about moving forward with restitution payment options
- Working closely with Kiolbassa to facilitate best options for the community and the environment



Questions?



WESTSIDE CREEKS RESTORATION OVERSIGHT COMMITTEE QUARTERLY MEETING



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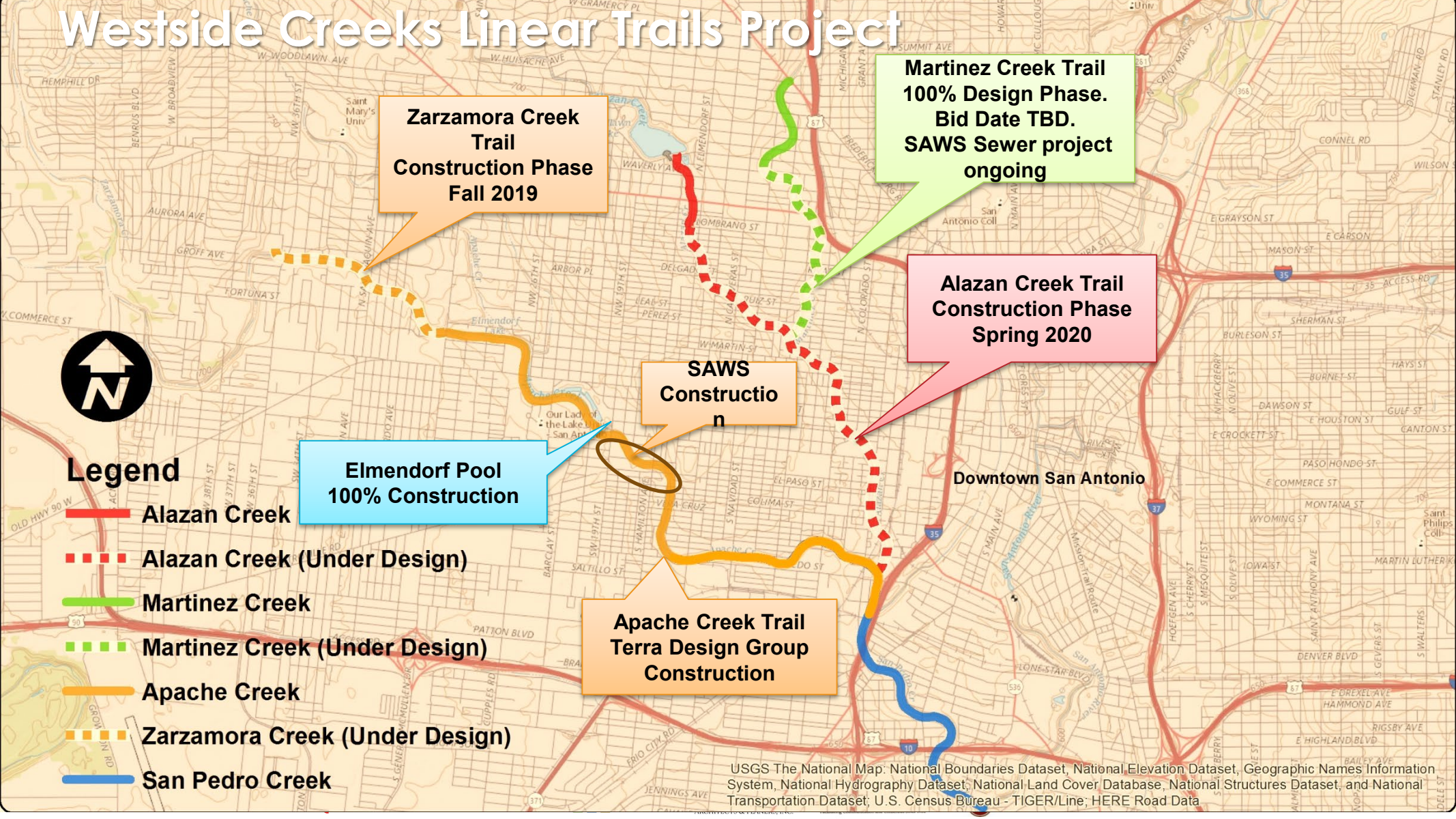
SAN ANTONIO
RIVER AUTHORITY

LINEAR CREEKWAY TRAILS

Reuben Bazan, Richard De La Cruz, P.E., Hillary Lilly

August 14, 2020

Westside Creeks Linear Trails Project



PROJECT LOCATION



**Present construction location
near Farias Park**

**Alazan Creek Trail
2.90 miles long
10' wide hike & bike trail**

ALAZAN CREEK TRAIL

TRAIL DETAILS

- **2.9 mile long – 10' wide concrete hike & bike trail from Lombrano St. to confluence at Apache creek**
- **5 total street connections (Lombrano, Poplar, Guadalupe, Arbor Pl, Colorado St.)**
- **Connects to Existing trail at Woodlawn Lake (North) and Apache Creek confluence (south)**
- **Awarded Contractor – SpawGlass Civil Construction**
- **Construction start date – February 17, 2020**
- **Expected end date Summer 2021**
- **Contract amount - \$8.665.031.33**



ALAZAN CREEK TRAIL

CONSTRUCTION PHASE

- **Excavation occurring up to station 61+00 (Nueces St.)**
- **Retaining walls being constructed near SAHA Apts (Zarzamora St.)**
- **Concrete installation up to station 50+00 (Sabinas St.)**

ALAZAN CREEK TRAIL

TRAIL PHOTOS



ALAZAN CREEK TRAIL

TRAIL PHOTOS



MARTINEZ CREEK TRAIL

DESIGN PHASE

- **Design Completed April 2019**
- **1.45 miles long – 10' concrete hike & bike trail**
- **Ties to existing trail at Cincinnati (north) and Farias Park (south)**
- **8 proposed street connections**
- **Bidding on hold due to SAWS sanitary sewer replacement project under construction along same creek areas.**

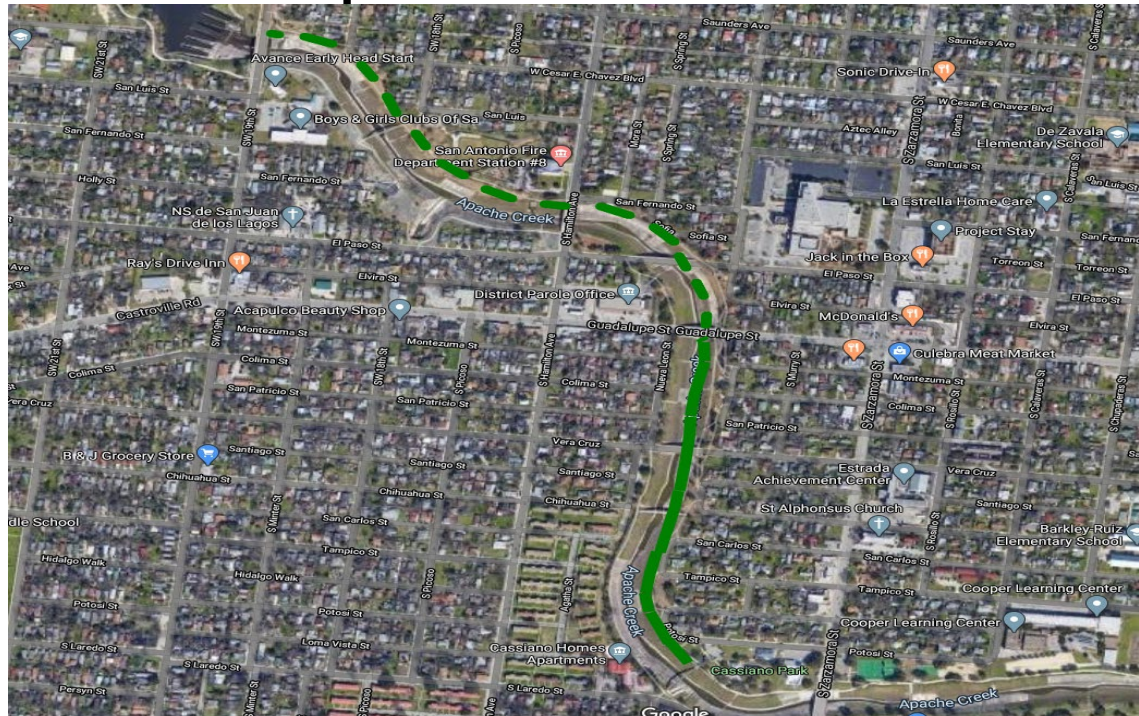
APACHE CREEK TRAIL

Apache Creek Trail



APACHE CREEK TRAIL

Apache Creek Trail



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APACHE CREEK TRAIL

CONSTRUCTION PHASE – OSCAR RENDA



APACHE CREEK TRAIL

TRAIL DETAILS

- **Joint Bid contract between SAWS and CoSA. SARA Managing hike and bike trail and park amenities.**
- **Trail connects to existing trails between Elmendorf lake and Cassiano park.**
- **Approximately 98% of concrete and trail has been placed**
- **Park amenities, signage, shade structure and vegetation remain**
- **Expected completion Fall 2020**



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ZARZAMORA CREEK TRAIL

TRAIL DETAILS

- **Phase I – Approx. 1.0 Miles long – 10' wide concrete hike & bike trail from Knoke St. to Memorial St.**
- **Phase II – Approx. 0.45 miles long – 10' wide concrete hike & bike trail from Memorial St. to Alderete Park (add alternate)**
- **8 overall trail street connections**
- **Bridge at 29th Street**
- **San Ignacio Trailhead**



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ZARZAMORA CREEK TRAIL

CONSTRUCTION PHASE – CONTRACTOR RCO, LLC

- **Concrete trail and retaining wall placed for Add Alt 1 98% Complete**
- **Placed seeding and landscape for Add Alt 1**
- **Grading and placing forms at San Ignacio trail head**
- **Grading and demolition on base bid contract to San Felipe**
- **Concrete trails and retaining walls for base bid 15%**
- **Contract amount - \$3,622,870.70**



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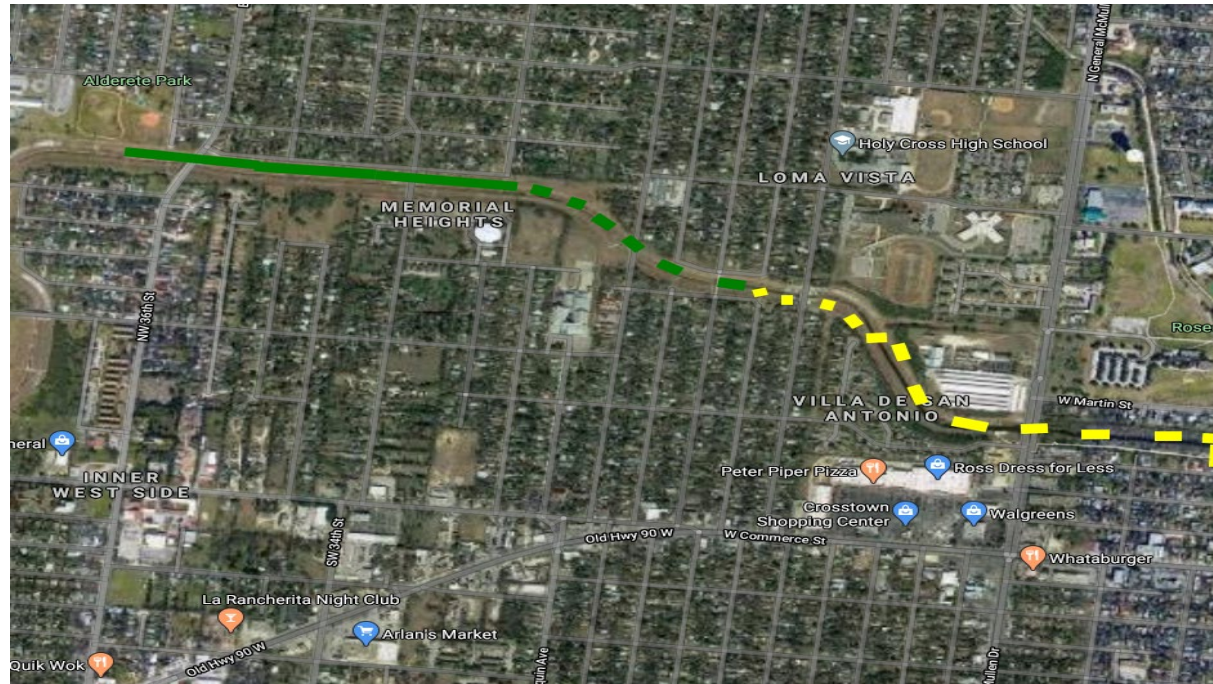


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ZARZAMORA CREEK TRAIL

Zarzamora Creek Trail



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ZARZAMORA CREEK TRAIL

CONSTRUCTION PHASE – CONTRACTOR RCO, LLC



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SAN
PEDRO
CREEK
CULTURE PARK

August 18, 2020

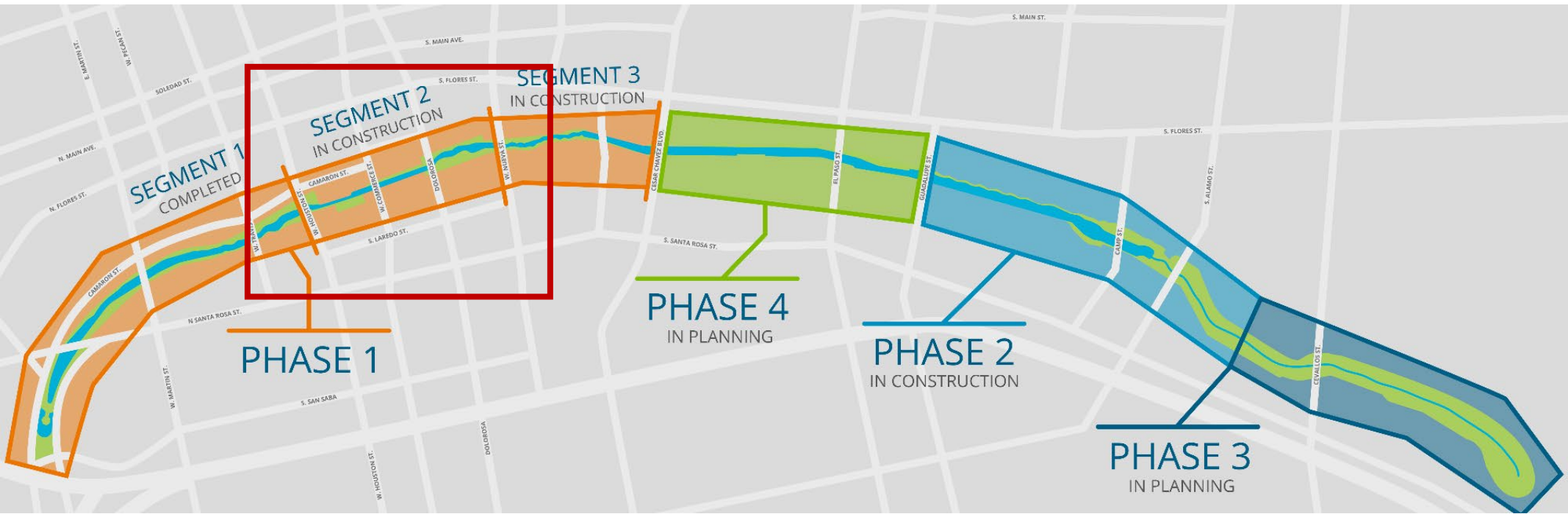


Updates

- Phase 1.2
 - Construction activities
 - AME Church foundation
- Phases 1.3 and 2
 - Design Activities
 - Construction activities
- Partner Coordination



Phase 1.2 Construction



Phase 1.2 Construction

- Houston to Commerce
 - Utility installation complete
 - Houston Street bridge construction resumed
- Commerce to Dolorosa
 - Dolorosa street bridge complete
 - Spanish Governor's Palace wall foundation complete
- Dolorosa to Nueva
 - Paseo/plaza paving

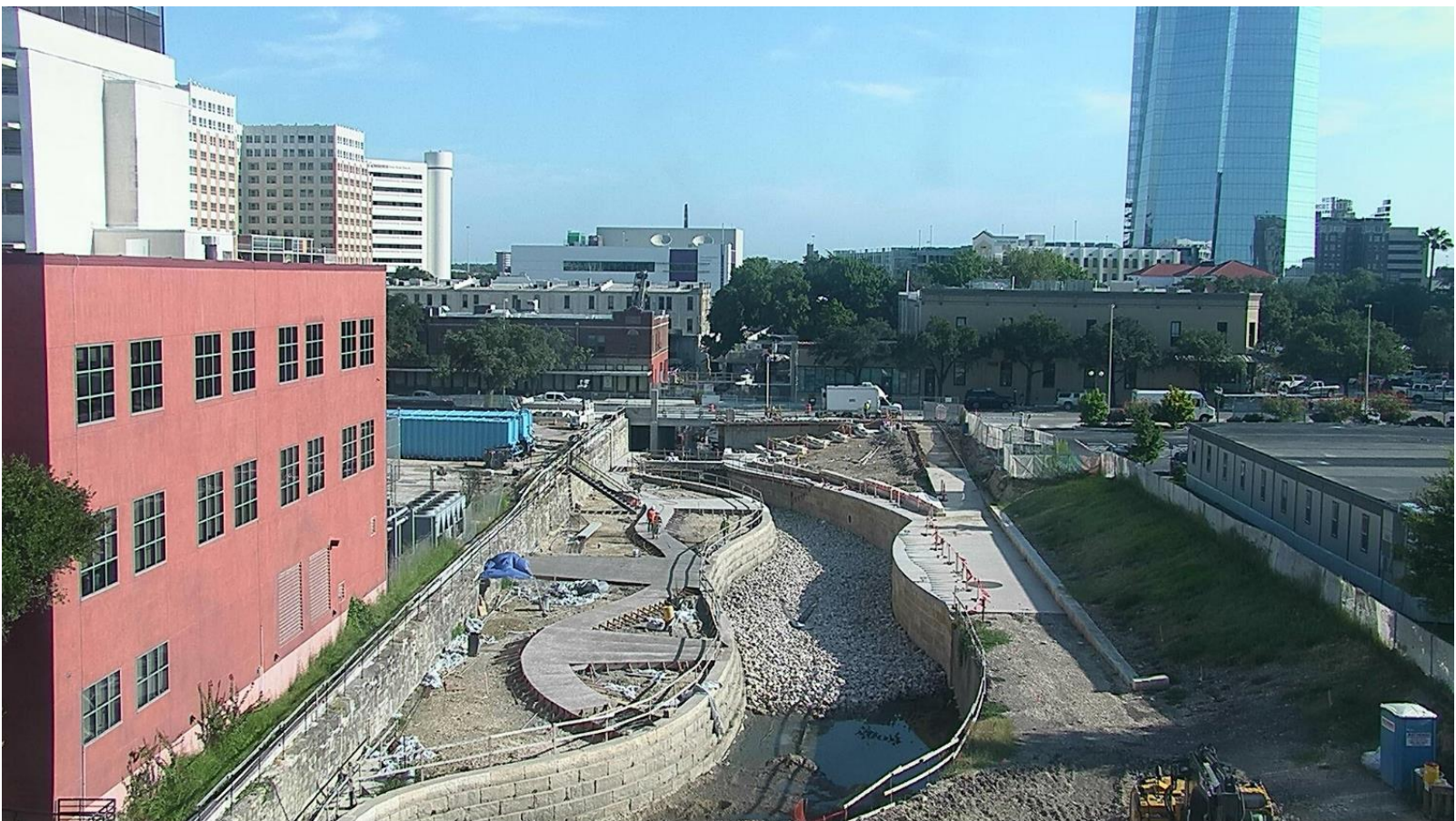


Archaeological Exploration

- Coordination with USACE, THC and COSA OHP ongoing
- Draft eligibility report submitted to agencies July 9
- Comments received
 - Review meeting Aug 19
 - Begin public outreach
- Current substantial completion November 2021

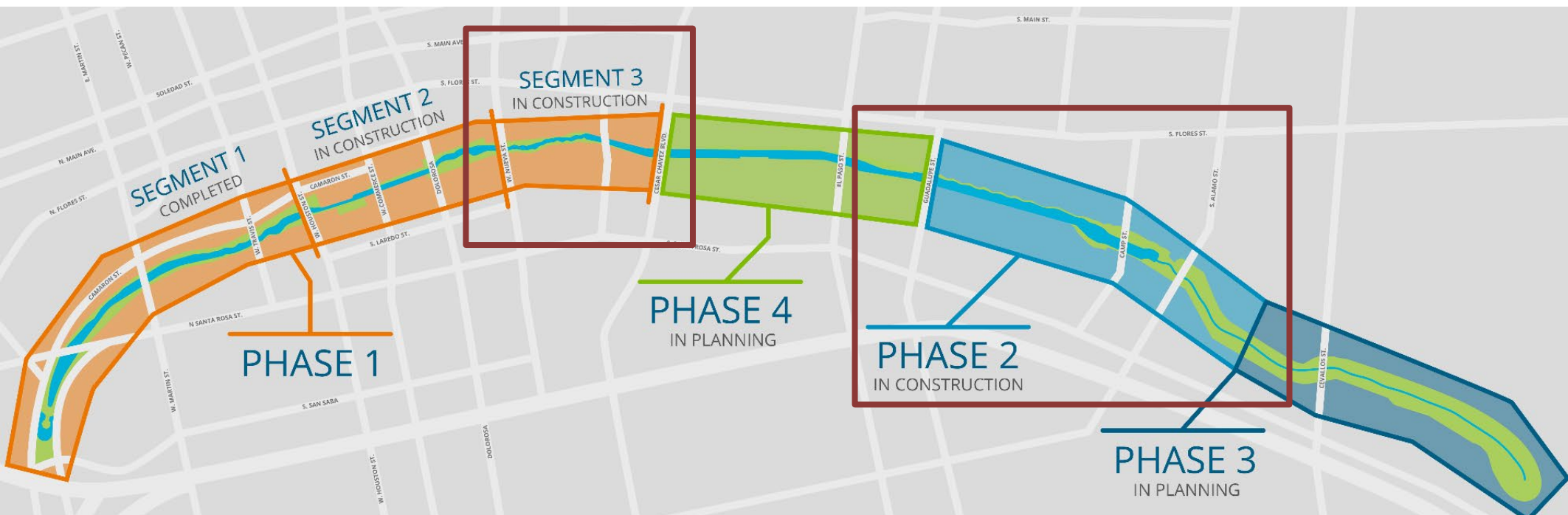








Phase 1.3 and Phase 2



Phase 1.3 and Phase 2 Design

- 100% design received July 31
- SDJV developing guaranteed maximum price
 - GMP submittal September 30



Phase 1.3 and Phase 2 Construction

- Phase 1.3 Drilled shaft installation ongoing
- USACE permit received
 - Downstream of Camp
- Channel work started
- CPS relocations ongoing
- Century Link new infrastructure installed
 - Splicing scheduled Aug 20





- Street closures:
 - Nueva: Closed
 - Graham: Closed
 - Camp Street: Closed
 - Guadalupe: Closed
 - Alamo: Late August
- Substantial Completion
 - Phase 1.3: Fall 2022
 - Phase 2: Feb 2023



Partner Coordination

- TPR/Alameda
- Camaron/Commerce Streets
 - Fall construction start
- GSA/Federal Courthouse
- Linda Pace Foundation
- UTSA downtown campus
- SAISD Administration building
- Weston Urban
- USPS



Partner Coordination

- Executive Committee
 - David Smith, County Manager, Bexar County
 - Lori Houston, Assistant City Manager, City of San Antonio
 - Razi Hosseini, Director, Public Works, City of San Antonio
 - Suzanne Scott, General Manager, San Antonio River Authority
- Next Meeting: TBD



QUESTIONS & COMMENTS





SAN
PEDRO
CREEK
CULTURE PARK



PHASE 1.2: Rooted in History

CARLOS CORTES + Fernando Andrade, Rolando Briseno, Jenelle Esparza, Ernesto Ibanez

- Final Design submittal under review
- Design development based on research and community feedback
- Commissioners Court approval



PHASE 1.2: STREAM

ADAM FRANK

- Microphone prototype complete
- Software testing with specified lights/controllers
- Second onsite test next month



PHASE 1.1: Creek Lines

BRIDGE PROJECTS

- Anticipated project completion December 2020
- Educational Outreach Plan complete
- Historic inscriptions finalized



EVENTS & PROGRAMMING

- All events will be virtual through December 2020
- New Series launch
 - Creekside Chats (August 26 at 12:00 pm) – virtual w/ Carrie Merson
 - Fit & Flow Series (September 12 at 9:00 am) – virtual w/ CrossFit Dagda
 - Get Creative Series (October 10 at 10:00 am) – with TBD
- Through the Eyes of an Artist – on location at SPC in October
- Resume in-person programming in January 2021 - *tentative*



View videos at: www.facebook.com/SanPedroCreek

QUESTIONS?

