

Monthly Progress Report

Reporting Period: Mar & Apr 2023

Project Information

Project Name	Port Lavaca Living Shoreline Breakwater
City Resolution	R-050922-5
CDBG-MIT Contract	20-087-001-D226
City PM	Jody Weaver
Mott MacDonald PM	Josh Carter
Mott MacDonald Project Number	507107066
Date	05/10/2023

Project Milestones

Milestone Description	Date (Actual=A)	Notes
Task 1: Project Kickoff		
Project Kickoff Meeting	6/8/2022 (A)	
Memorandum of Project Understanding	6/21/2022 (A)	
Task 2: Data Collection and Analysis		
Collect available coastal processes data	7/29/2022 (A)	
Collect USACE historical survey data		Not yet started
Collect new bathymetric and topographic data	8/3/2022 (A)	New data collection complete
Collect new geotechnical data	6/30/2023	Scoped; pending subcontract execution
Collect new cultural resources data	6/30/2023	Scoped; pending subcontract execution
Collect new habitat data	6/30/2023	Scoped; pending subcontract execution
Technical memorandum on data collection	4/7/2023	Draft Complete
Task 3: Coastal Analysis, Alts Development, Alt Eval		
Coastal Engineering Analysis	11/4/2022 (A)	Via presentation 11/4/2022
Alternatives Development	11/4/2022 (A)	Via presentation 11/4/2022
Meeting on Alternatives Development	11/4/2022 (A)	Completed in person on 11/4/2022
Alternatives Evaluation	2/20/2023 (A)	Delayed due to computational time
Meeting on Alternatives Evaluation	2/22/2023 (A)	Delayed waiting on computation
Tech Memo on CEA and Alts Analysis	7/13/2023	Draft complete; in review. Plan to combine with prelim design report
Task 4: Preliminary Design		
Prelim design: 30% plans, cost, report	7/13/2023	Draft complete. Pending adjustments from surveys
Task 5: Regulatory Compliance		
Prepare application and permit plans	7/27/23	Delivery date updated to reflect new habitat and CR survey schedule
USACE Regulatory Permitting		
USACE pre-application meeting	8/10/2023	In development

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Milestone Description	Date (Actual=A)	Notes
Submit USACE Permit Application	9/7/2023	
Issuance of USACE Permit	4/18/2024	Assuming 9 months to issue permit
TXGLO Coastal Lease		
Submit coastal lease application to GLO	2/1/2023	Will time this to wait until we know USACE is preparing approved permit
Task 6: Engineering Design		
Submit 70% Design	10/12/2023	
Submit 95% Design	12/21/2023	
Develop for proposal package	5/16/2024	Set to 1 month after receipt of permit
Task 7: Construction Proposal Solicitation Assistance		
Out to bid	7/2024	
Issue Construction NTP	10/2024	

Project Budget

Budget Summary	% Complete by Budget	notes
Task 1: Develop Project Understanding	100%	
Task 2: Data Collection and Analysis	80% Mott / 11% by sub	Only bathy survey has been conducted to date.
Task 3: Coastal Analysis, Alts Development, Alts Eval	100%	Work ongoing
Task 4: Preliminary Design	90%	Work nearing completion
Task 5: Regulatory Compliance	5%	Initiation coordination on habitat and CR surveys
Task 6: Final Design	0%	
Task 7: Bidding Phase Services	0%	
Task 8: Engineering Services during Construction	0%	
Task 9: Project Management	18%	
Overall	26%	

Activities Performed This Period

Activity Summary
Task 1: Project Kickoff
<ul style="list-style-type: none"> Task Completed
Task 2: Existing and New Data Collection
<ul style="list-style-type: none"> Bathy and magnetometer survey completed 8/3/2022; deliverable received 8/9/2022. Survey deliverable submitted Ongoing: USACE coordination on historical dredging data of Port Lavaca Channel and other information on Matagorda Channel deepening. USACE slow to respond. Note this is not impacting project schedule Other new data collection – geotechnical, habitat surveys, cultural resources surveys: have scopes for all work; contracting underway with subcontractors
Task 3: Coastal Analysis, Alts Development, Alts Evaluation
<ul style="list-style-type: none"> Coastal data processing and analysis is complete Coastal modeling of site is complete <ul style="list-style-type: none"> Storm surge model is set up for existing conditions; runs complete.

Activity Summary

- Local wave model is set up for existing conditions; runs for existing conditions complete.
 - Modeling of flushing of harbor for existing and w/ project conditions complete.
- Alternatives development
 - Completed development of alternatives for evaluation.
 - Modeling of proposed alternatives are complete
 - Wave transmission through artificial reefs
 - Typical wave conditions
 - Storm wave conditions
 - Flushing of alternatives
 - Developed and evaluated breakwater modifications based on initial evaluation for improvements to water quality (flushing) and wave protection; work complete.
- Reporting
 - Conducted meeting on CEA and alternatives development with the City and KSBR on 11/4/2022
 - Completed drafting of CEA and Alternatives Development and Evaluation memo. In review; anticipate delivery 3/10/2022
 - Conducted meeting on Alternatives Analysis with the City and KSBR on 2/22/2023

Task 4: Preliminary Design

- Progressed 30% plan sheet. Major components of design complete; currently refining and editing. Need input from City and results of resource surveys to finalize.
- Completed developing preliminary geometric design of structures

Task 5: Regulatory Compliance

- Scoped habitat survey and cultural resources survey and survey layout
- Initiated permit application development

Task 6: Final Design

- Not yet started

Task 7: Bidding Phase Services

- Not yet started

Task 8: Construction Proposal Solicitation Assistance

- Not yet started

Task 9: Project Management

- Ongoing internal project management e.g. scheduling, invoicing, resourcing, etc.
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Anticipated Effort Next Period

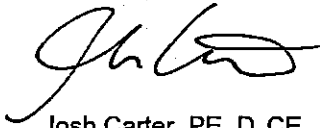
- Initiate habitat, cultural resources, and geotechnical investigations to start.
- Need to coordinate construction access and possible staging and stockpile areas with City (planned to initiate discussion 5/12/22)
- Proceed with development of 30% design plans; preliminary design documentation.
- Note in budget: After data collection and 30% design is complete, we will be nearing the end of our first draw of funding. I would like to initiate discussions with City and KSBR on how to start monthly invoicing against second milestone draw (Final Design).

Outstanding Items

- USACE has not responded to coordination requests. Mott will continue outreach. Note this is not slowing project progress

Please do not hesitate to contact me if you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Josh Carter', with a stylized flourish at the end.

Josh Carter, PE, D. CE

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