

# Monthly Progress Report

Reporting Period: Jan & Feb 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	03/06/2023

## Project Milestones

Milestone Description	Date (Actual=A)	Notes
<b>Task 1: Project Kickoff</b>		
Project Kickoff Meeting	6/8/2022 (A)	
Memorandum of Project Understanding	6/21/2022 (A)	
<b>Task 2: Data Collection and Analysis</b>		
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	3/20/2023	Not Started; wait for template design
Collect new cultural resources data	3/20/2023	Not Started; wait for template design
Collect new habitat data	3/20/2023	Not Started; wait for template design
Technical memorandum on data collection	4/7/2023	Draft Complete
<b>Task 3: Coastal Analysis, Alts Development, Alt Eval</b>		
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	3/10/2023	Draft complete; in review
<b>Task 4: Preliminary Design</b>		
Prelim design: 30% plans, cost, report	5/12/2023	
<b>Task 5: Regulatory Compliance</b>		
Prepare application and permit plans	4/17/23	
<b>USACE Regulatory Permitting</b>		
USACE pre-application meeting	7/11/2023	
Submit USACE Permit Application	7/28/2023	
Issuance of USACE Permit	7/28/2024	

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Milestone Description	Date (Actual=A)	Notes
<b>TXGLO Coastal Lease</b>		
Submit coastal lease application to GLO	8/25/2023	
<b>Task 6: Engineering Design</b>		
Submit 70% Design	6/5/2023	
Submit 95% Design	8/21/2023	
Develop for proposal package	7/2024	
<b>Task 7: Construction Proposal Solicitation Assistance</b>		
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	10%	Initiate coordination on geotechnical investigation
Task 5: Regulatory Compliance	1%	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	15%	
<b>Overall</b>	<b>26%</b>	

## Activities Performed This Period

<b>Activity Summary</b>
<b>Task 1: Project Kickoff</b> <ul style="list-style-type: none"> <li>Task Completed</li> </ul>
<b>Task 2: Existing and New Data Collection</b> <ul style="list-style-type: none"> <li>Bathy and magnetometer survey completed 8/3/2022; deliverable received 8/9/2022. Survey deliverable submitted</li> <li>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</li> <li>Other new data collection – geotechnical, habitat surveys, cultural resources surveys – initiated Scope development with subcontractors</li> </ul>
<b>Task 3: Coastal Analysis, Alts Development, Alts Evaluation</b> <ul style="list-style-type: none"> <li>Coastal data processing and analysis is complete</li> <li>Coastal modeling of site is complete <ul style="list-style-type: none"> <li>Storm surge model is set up for existing conditions; runs complete.</li> <li>Local wave model is set up for existing conditions; runs for existing conditions complete.</li> <li>Modeling of flushing of harbor for existing and w/ project conditions complete.</li> </ul> </li> </ul>

### Activity Summary

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- 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
- 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

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#### Task 4: Preliminary Design

- Initiated plan sheet setup
- Initiated developing geometric design of structures

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#### Task 5: Regulatory Compliance

- Initiated planning on habitat survey layout and scoping with sub

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#### Task 6: Final Design

- Not yet started

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#### Task 7: Bidding Phase Services

- Not yet started

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#### Task 8: Construction Proposal Solicitation Assistance

- Not yet started

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#### Task 9: Project Management

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

- Develop scope for habitat, cultural resources, and geotechnical investigations (pending agreement on project footprint); initiate data collection
- Proceed with development of 30% design plans; preliminary design documentation.

### 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,



Josh Carter, PE, D. CE

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