

# Monthly Progress Report

Reporting Period: May & June 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	06/28/2023

## 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	7/28/2023	Field data start 6/26/23
Collect new cultural resources data	7/28/2023	Scoped; pending subcontract execution
Collect new habitat data	7/14/2023	Scoped; pending subcontract execution
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	8/4/2023	Draft complete; in review. Plan to combine with prelim design report; pending receipt of field data
<b>Task 4: Preliminary Design</b>		
Prelim design: 30% plans, cost, report	8/4/2023	Draft complete. Pending adjustments from field data
<b>Task 5: Regulatory Compliance</b>		
Prepare application and permit plans	8/4/23	Delivery date updated to reflect new habitat and CR survey schedule
<b>USACE Regulatory Permitting</b>		

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.

Milestone Description	Date (Actual=A)	Notes
USACE pre-application meeting	8/10/2023	<i>In development</i>
Submit USACE Permit Application	9/7/2023	
Issuance of USACE Permit	4/18/2024	Assuming 9 months to issue permit
<b>TXGLO Coastal Lease</b>		
Submit coastal lease application to GLO	2/1/2024	Will time this to wait until we know USACE is preparing approved permit
<b>Task 6: Engineering Design</b>		
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
<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	90% Mott / 11% by sub	All field data has been initiated, pending invoicing
Task 3: Coastal Analysis, Alts Development, Alts Eval	100%	
Task 4: Preliminary Design	95%	Work pending receipt of field data
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	21%	
<b>Overall</b>	<b>37%</b>	

## Activities Performed This Period

### Activity Summary

#### Task 1: Project Kickoff

- Task Completed

#### Task 2: Existing and New Data Collection

- Bathy and magnetometer survey completed 8/3/2022; deliverable received 8/9/2022. Survey deliverable submitted
- Geotech data collection initiated. Work in field began 6/26/23. Deliverable expected 7/28/23
- Habitat Survey was conducted 6/12-6/22/2023. Deliverable expected 7/14/23
- Cultural resources surveys have been given NTP; initial deliverable expected 7/28/23.

#### Task 3: Coastal Analysis, Alts Development, Alts Evaluation

- Coastal data processing and analysis is complete

### Activity Summary

---

- Coastal modeling of site is complete
  - Storm surge model is set up for existing conditions; runs complete.
  - 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.
  - 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.
- Coordinated access routes from city 5/12/23.
- Further development and finalization pending receipt of field data.
- Completed developing preliminary geometric design of structures

---

#### Task 5: Regulatory Compliance

- 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.
- 

### Anticipated Effort Next Period

- Continue and complete habitat, cultural resources, and geotechnical investigations.
- Finalize 30% design plans; preliminary design documentation after receipt of field data. Any unexpected data received may require modification to current design.
- 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

Project Manager; Office: 504-383-9785; Email: [Joshua.carter@mottmac.com](mailto:Joshua.carter@mottmac.com)