

4(b)

## Jody Weaver

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**From:** Joshua Carter <Joshua.Carter@mottmac.com> on behalf of Joshua Carter  
**Sent:** Friday, January 13, 2023 11:14 AM  
**To:** J Weaver; Veronica Pauda  
**Cc:** Katy; Aaron Horine  
**Subject:** City of Port Lavaca - Living Shoreline Breakwaters CDBG-MIT progress update  
**Attachments:** 20230113 - CPL Living Shoreline Breakwater - Monthly-Progress-Report December 2022.pdf

Jody, Veronica,

I've attached a progress report for the subject project. Please let me know if you have any questions.

We are still progressing on evaluating the alternatives and have a better idea when the computations will be completed.  
Can we meet sometime the week of 2/20/23 in Port Lavaca to present results? I think any day would be ok for us. If I had a choice, I'd prefer Wednesday 2/22 around 1030 am, but am open to any other day that week.

thanks,  
Josh

### Josh Carter, PE, D.CE

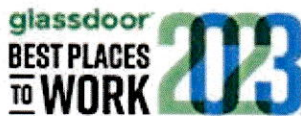
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# Monthly Progress Report

Reporting Period: ~~November~~ 2022

December

## 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                          | 01/13/2023                              |

## Project Milestones

| Milestone Description                                       | Date<br>(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*          | In progress                           |
| <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                                     | 2/17/2023          | Delayed due to computational time     |
| Meeting on Alternatives Evaluation                          | 2/20/2023          | Delayed waiting on computation        |
| Tech Memo on CEA and Alts Analysis                          | 2/24/2023          | Delayed waiting on computation        |
| <b>Task 4: Preliminary Design</b>                           |                    |                                       |
| Prelim design: 30% plans, cost, report                      | 4/10/2023*         |                                       |
| <b>Task 5: Regulatory Compliance</b>                        |                    |                                       |
| Prepare application and permit plans                        | 4/17/23*           |                                       |
| <b>USACE Regulatory Permitting</b>                          |                    |                                       |
| USACE pre-application meeting                               | 5/22/2023*         |                                       |
| Submit USACE Permit Application                             | 6/5/2023*          |                                       |
| Issuance of USACE Permit                                    | 1/15/2024*         |                                       |

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| Milestone Description  | Date<br>(Actual=A) | Notes |
|--|--------------------|-------|
| <b>TXGLO Coastal Lease</b>                                   |                    |       |
| Submit coastal lease application to GLO                      | 6/5/2023*          |       |
| <b>Task 6: Engineering Design</b>                            |                    |       |
| Submit 70% Design  | 6/19/2023*         |       |
| Submit 95% Design  | 8/21/2023*         |       |
| Develop for proposal package                                 | 1/15/2024*         |       |
| <b>Task 7: Construction Proposal Solicitation Assistance</b> |                    |       |
| Out to bid   | 3/11/2024*         |       |
| Issue Construction NTP                                       | 6/10/2024*         |       |

\*revised 1/13/2023

## Project Budget

| Budget Summary  | % Complete by<br>Budget | notes   |
|---|-------------------------|---|
| Task 1: Develop Project Understanding                 | 100%                    |   |
| Task 2: Data Collection and Analysis                  | 78% Mott / 11% by sub   | Only bathy survey has been conducted to date.       |
| Task 3: Coastal Analysis, Alts Development, Alts Eval | 75%                     | Work ongoing  |
| Task 4: Preliminary Design                            | 1%                      | 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                            | 9%                      |   |
| <b>Overall</b>  | <b>20%</b>              |   |

## Activities Performed This Period

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| <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 - waiting development of draft project template to direct location of that data collection</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>New bathy data incorporated into larger scale bathymetric surface of Lavaca and Matagorda Bay is complete. This is basis of modeling, analysis and design to progress through next tasks</li> </ul>   |



### Activity Summary

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- 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 base alternative complete.
- Alternatives development
  - Completed development of alternatives for evaluation.
  - Initiated modeling of proposed alternatives; all are ongoing:
    - Wave transmission through artificial reefs
    - Typical wave conditions
    - Storm wave conditions
    - Flushing of alternatives
  - Note: wave condition modeling of site computation time is longer than originally anticipated. Overall resulting delay expected to be ~ 2 months. Schedule updated to reflect this delay.
- Reporting
  - Conducted meeting on CEA and alternatives development with the City and KSBR on 11/4/2022
  - Initiated drafting of CEA and Alternatives Development and Evaluation memo. Memo development expected to be complete after completion of alternatives analysis in late February.

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#### Task 4: Preliminary Design

- Initiated planning on geotechnical investigation

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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

- Finalize evaluation of project alternatives
- Prepare presentation on results of alternatives evaluation
- Provide recommendations on preferred alternative; will need City to provide their opinion to finalize selection of preferred alternative. Will meet with City to present results and make selection
- Anticipate meeting with the City week of 2/20/2023
- Develop scope for habitat, cultural resources, and geotechnical investigations (pending agreement on project footprint)

### 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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