

Harbours Committee

29th September 2021

Flood & Coastal Erosion Risk Management (FCERM) Engineering Update

For Review and Consultation

Portfolio Holder: Cllr R Bryan, Highways, Travel and Environment

Local Councillor(s): Cllr Mark Roberts

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Report Status: Public

Recommendation: n/a

Reason for Recommendation: n/a

1. Executive Summary

The purpose of the report is to provide a Flood and Coastal Erosion Risk Management (FCERM) engineering update, for all three Dorset Council Harbours, to Harbours Committee.

2. Financial Implications

There are no financial implications arising from this report. All works described are within allotted budgets.

3. Well-being and Health Implications

Repair and renewal of harbour infrastructure aids commercial and recreational activity that is both marine and land-based.

4. Climate implications

The regular maintenance and repair to engineering assets is beneficial to their remaining life expectancy and therefore has a lower impact upon the climate than replacement schemes.

Where future replacement schemes are required, the climate impact will be described in more detail within the cabinet paper for the respective scheme.

5. Other Implications

The regular maintenance and repair to engineering assets is beneficial to their remaining life expectancy and therefore is a sustainable approach to the management of engineering assets.

Where future replacement schemes are required, the impact upon sustainability will be described in more detail within the committee paper for the respective scheme.

6. Risk Assessment

Having considered the risks associated with this decision, the level of risk has been identified as:

Current Risk: Low

Residual Risk: Low

7. Equalities Impact Assessment

An EQiA is completed for all relevant engineering work that may impact upon people including for work described below. Therefore, an EQiA was not completed for this committee paper. This approach was agreed with a council equalities officer.

8. Flood & Coastal Erosion Risk Management (FCERM) Engineering Update

8.1 Lyme Regis Harbour:

Dredging:
Complete.

Inspections:
Scheduled for late summer/Autumn.

Repairs:

We are continuing to monitor The Cobb structure. Some patch repairs carried out to walkway surfaces at the Cobb in March 2021.

Lyme Regis Environmental Improvement Scheme Phase 5 (The Cobb):
The project team is now focused upon applying for and obtaining flood defence grant-in-aid from DEFRA and are currently developing a business case for funding. We are aiming to have the business case ready to submit this Winter.

Key Milestones:

Task	Programme
Outline Business Case production	Autumn to Winter 2021
OBC submission	Late Winter 21
Stakeholder engagement	Winter 21 – end of works
Permits and Licences determination period	Spring 2022 onward
Proposed Construction start	Autumn 2023

8.2 West Bay Harbour:

Dredging:

Successfully completed. Work has started on the licence application for disposal of dredged arisings on nearby beaches for 2022 onwards.

Inspections:

Scheduled for late Summer/Autumn.

Repairs:

Specialist consultants, PCRm, completed the condition assessment of the eastern basin walls/walkways in May 2021. Their report made a number of recommendations regarding potential remediation works to the walls and the further site investigation i.e. trial pitting, monitoring etc that would be required to inform any design work. PCRm are currently preparing a quotation to undertake this site investigation phase of the work and it is hoped that this work can be completed by end 2021. FCERM engineers continue to monitor the area.

8.3 Weymouth Harbour:

Inspections:

Scheduled for late Summer/Autumn.

Capital Remedial works (see location plan in appendices):

Weymouth Harbour & Esplanade FCRM Scheme Phase 1:

This is a proposed multi-million pound scheme that intends to replace and repair the harbour walls up until 2040 and improve the flood defence standard of protection to reduce the impact of climate change. The proposed scheme will also investigate the level of risk from multiple forms of flooding within Weymouth

and will complement the findings from the Weymouth Level 2 SFRA study to be commissioned in support of the new DC Local Plan.

The proposed scheme is detailed in the Weymouth Harbour & Esplanade FCRM Strategy document that was agreed to by cabinet in November 2020:

<https://www.dorsetcouncil.gov.uk/emergencies-severe-weather/flooding/pdfs/weymouth-fcrm-strategy-dc-report-v4.0-final-compressed.pdf>

The Council FCERM engineering team have engaged support from specialist contractors and the project team have recently finalised the strategic outline case (SOC) for the scheme. The SOC gained Council Cabinet approval on 22nd June 2021. The business case will also require the approval of the Environment Agency and we have been working closely with them to deliver this.

Key Milestones:

Task	Programme
Strategic Outline Business Case production	Now - May 2021
Council Cabinet Submission	June 2021
Environment Agency approval	September 2021
Stakeholder engagement	March 2021 - end of works
Permits and Licences determination period	Spring 2023 - Spring 2024
Outline Business Case production	Autumn 2021 - Summer 2023
Design period	Summer 2023 - Spring 2024
Proposed Construction start	Autumn/Winter 2024

Harbour Wall D Strengthening works (East End of Custom House Quay):

Minor defects are planned to be rectified, these are not impacting the structure's use, operations or quality. Covid-19 has delayed rectifying these defects. Ferry step lighting is outstanding, and we are discussing with our contractor a suitable design.

Harbour Wall C (Slipway Nothe Parade):

All site investigations are now complete, and we have a first draft design of the repair works from our consultant. We are now working closely with a contractor to draft the methodology for the works so that we can apply for necessary permits. The process of engaging with local businesses and residents will soon commence.

Key Milestones:

Task	Programme
Site Investigation works	February – March 2021
Design Period	March – May 2021
Stakeholder Engagement	October 2020 – end of works
Permits and Licences determination period	May – November 2021
Construction Works Start	November 2021

Harbour Walls E&9 Repair Works (Peninsula):

The design for the wall repairs has been finalised and we are in the process of obtaining quotes for the works. The wall repairs are part of the Weymouth Quay Regeneration Scheme.

Key Milestones:

Task	Programme
Site Investigation works	November – January 2021
Stakeholder Engagement	November 2020 – end of works
Design Period	January - February 2021
Permits and Licences determination period	December 2020 - June 2021
Construction Works Start	October – March 2022

Harbour Walls F&G (Peninsula):

Risk Management measures have now been in place since June 2021, and they include a 5m exclusion zone for pedestrians and 10m for vehicles and weekly inspections of the capping beam, footpath and car park surface.

8.4 Portland Harbour:

Portland Harbour North West Shoreline:

A funding bid to Wessex Regional Flood & Coastal Committee was approved in Spring 2021 for £170,000 to fund an extensive 5-year monitoring study for the coastal slope of Portland Harbour North West Shoreline (frontage to Wyke Regis area).

Our next step is to procure a specialist geotechnical engineering consultancy to help develop a cliff monitoring plan and install monitoring equipment.

Current Key Dates:

Task	Programme
Procurement of specialist consultant	October 2021
Cliff Monitoring Plan development	Autumn 2021
Monitoring equipment installation	Winter 2021
Cliff inspection updates	Annually until 2026
Cliff Management Strategy production	Winter 2026

9. Appendices

FCERM Weymouth Harbour Walls Remediation Project Wall Location Plan App 1

10. Background Papers

None

Footnote:

Issues relating to financial, legal, environmental, economic and equalities implications have been considered and any information relevant to the decision is included within the report.