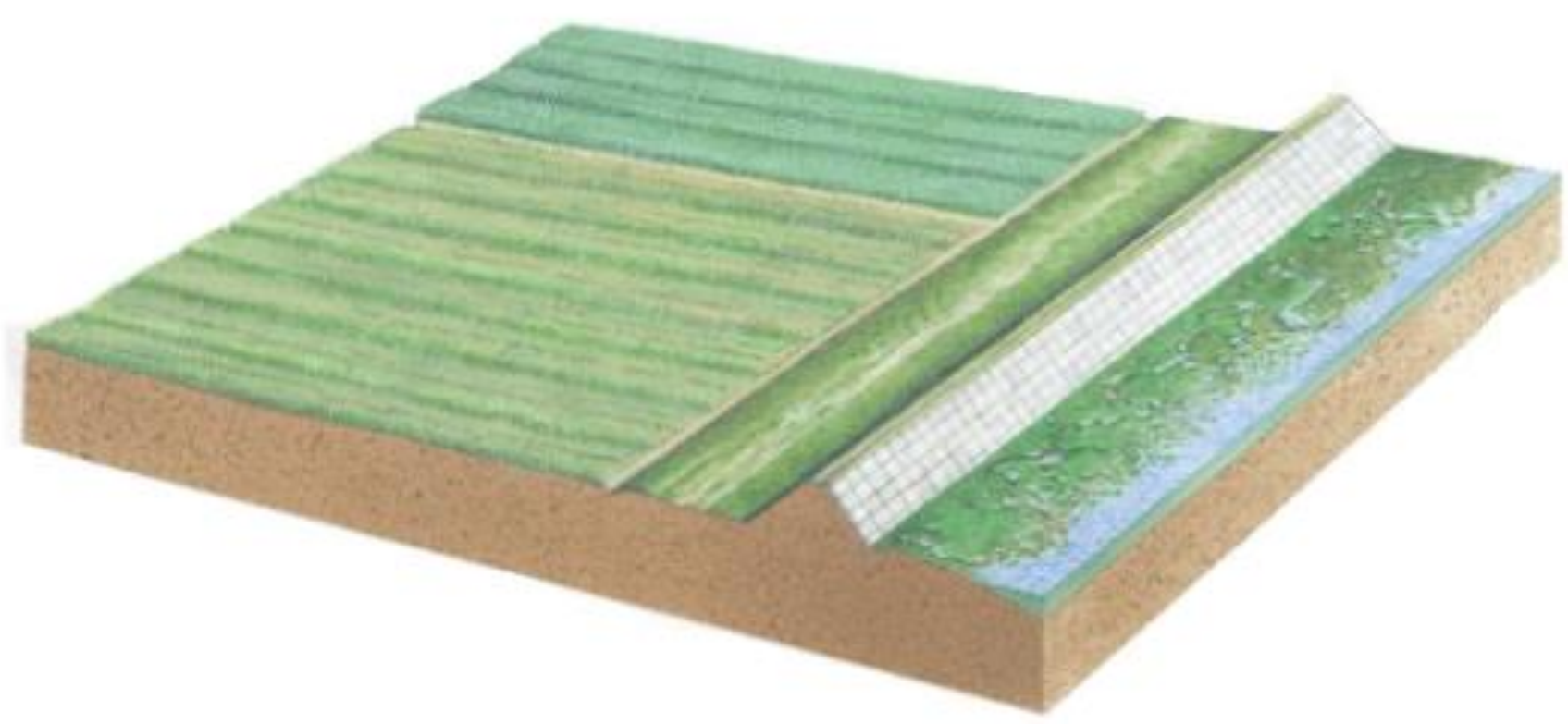


MANAGED DYKE REALIGNMENT (MR) AND TIDAL WETLAND RESTORATION

THE PROCESS OF MANAGED DYKE REALIGNMENT



Existing 'hard' flood defences.

If no high ground is present inland a new flood bank is built behind the existing one. The land between the two defences is contoured to ensure the right habitat is created.

The old defence is breached allowing the tide to move in and out.

As the tide moves in and out, mud is deposited and intertidal habitat is created between the banks. This soaks up wave energy.

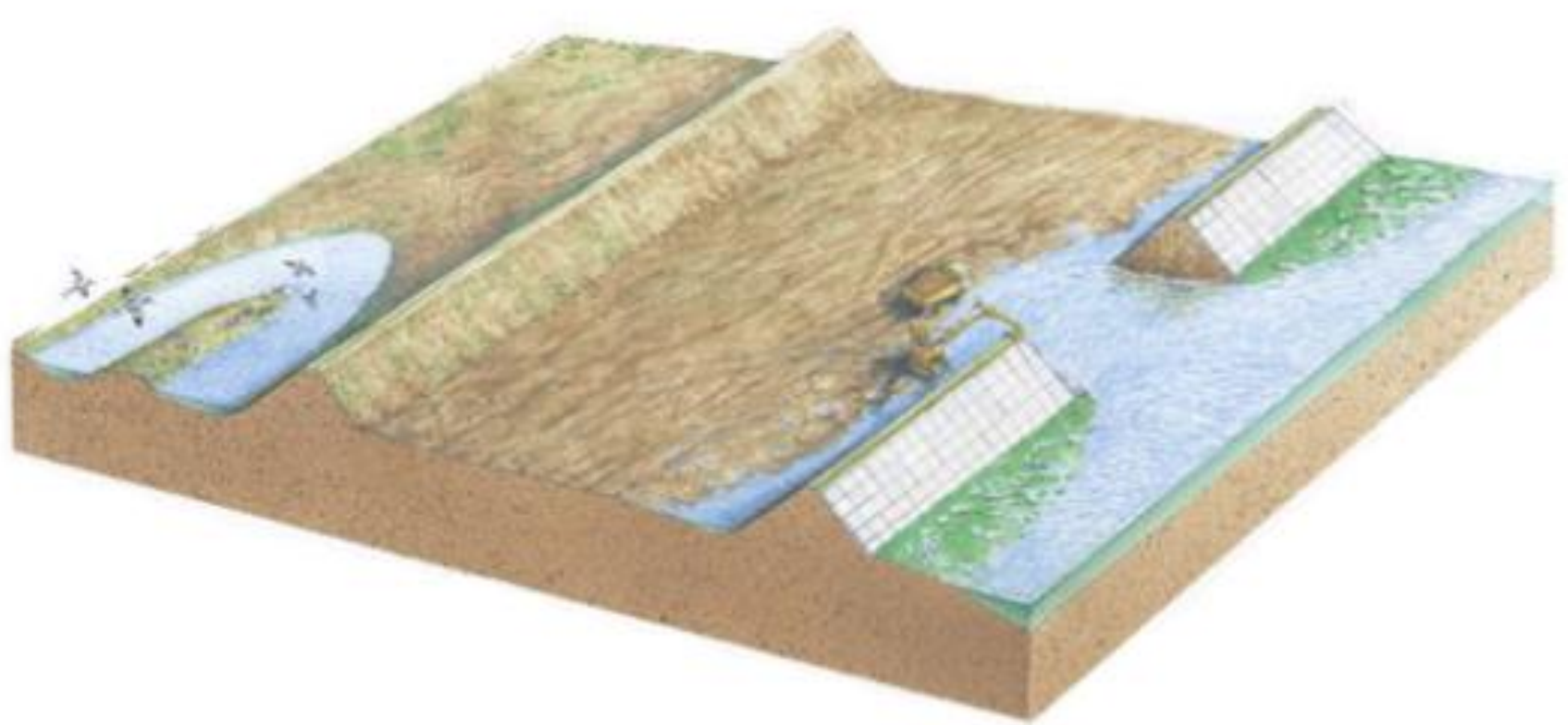


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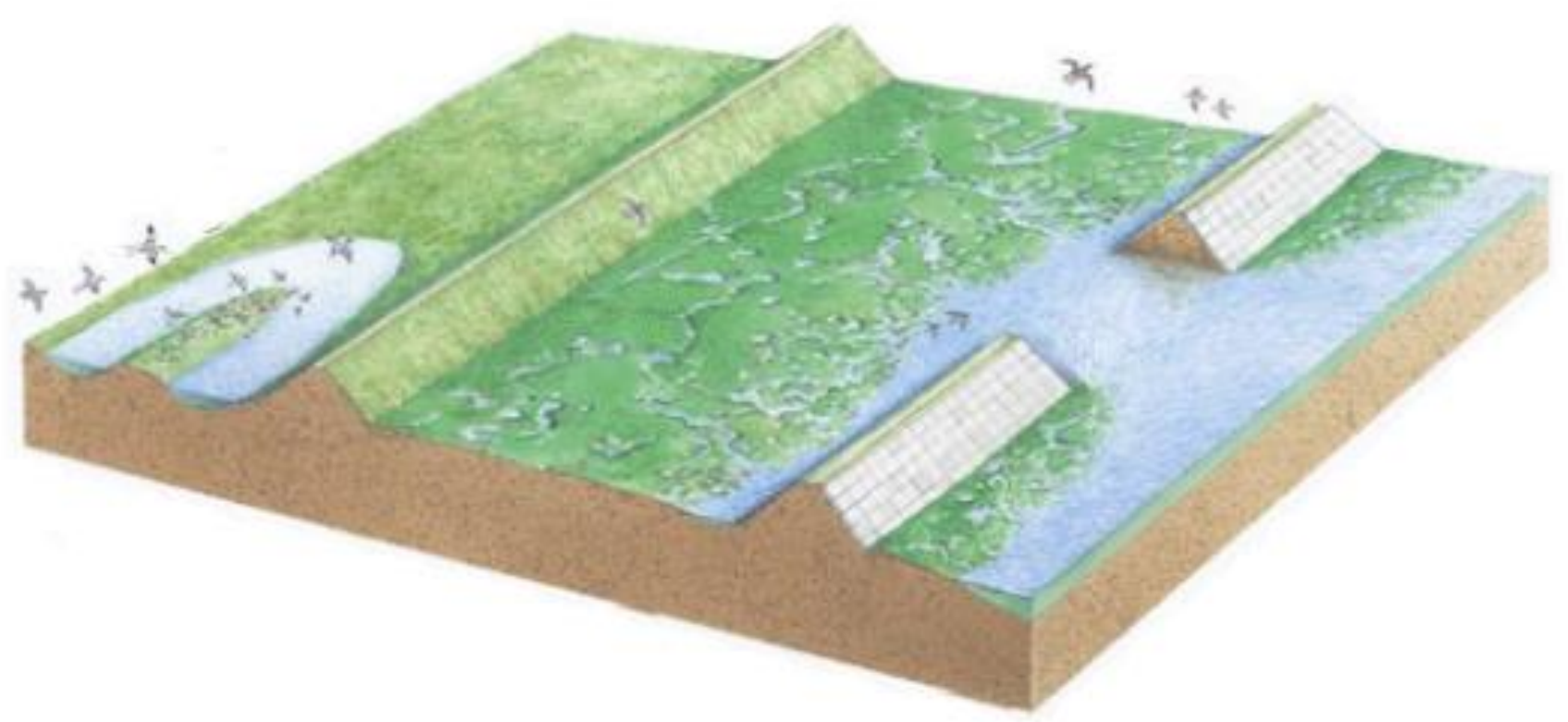


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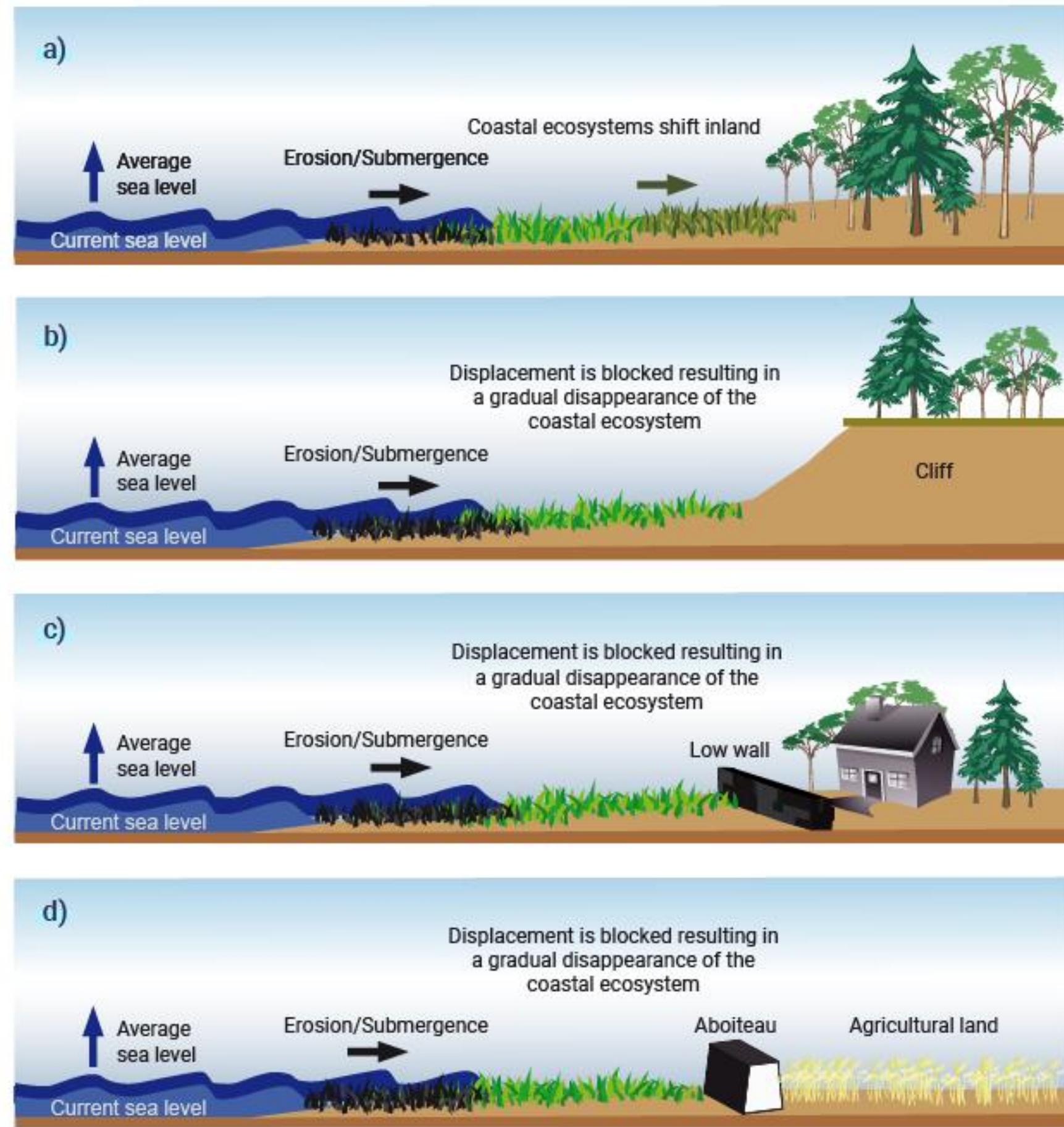
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a) Existing agriculture dyke b) A new dyke is built c) The old dyke is breached d) Tides deposit sediment and a new tidal wetland is established (source: <http://worldlywise.pbworks.com/w/page/15409213/Unit%201%20Section%20B%20-%20Managing%20coastal%20areas>).

COASTAL SQUEEZE



Bernatchez and Quintin, 2016

MR IN PRACTICE



Left) Earthworks at the Belcher Street Marsh Managed Realignment Site, Right restored 2018, CBWES Inc.

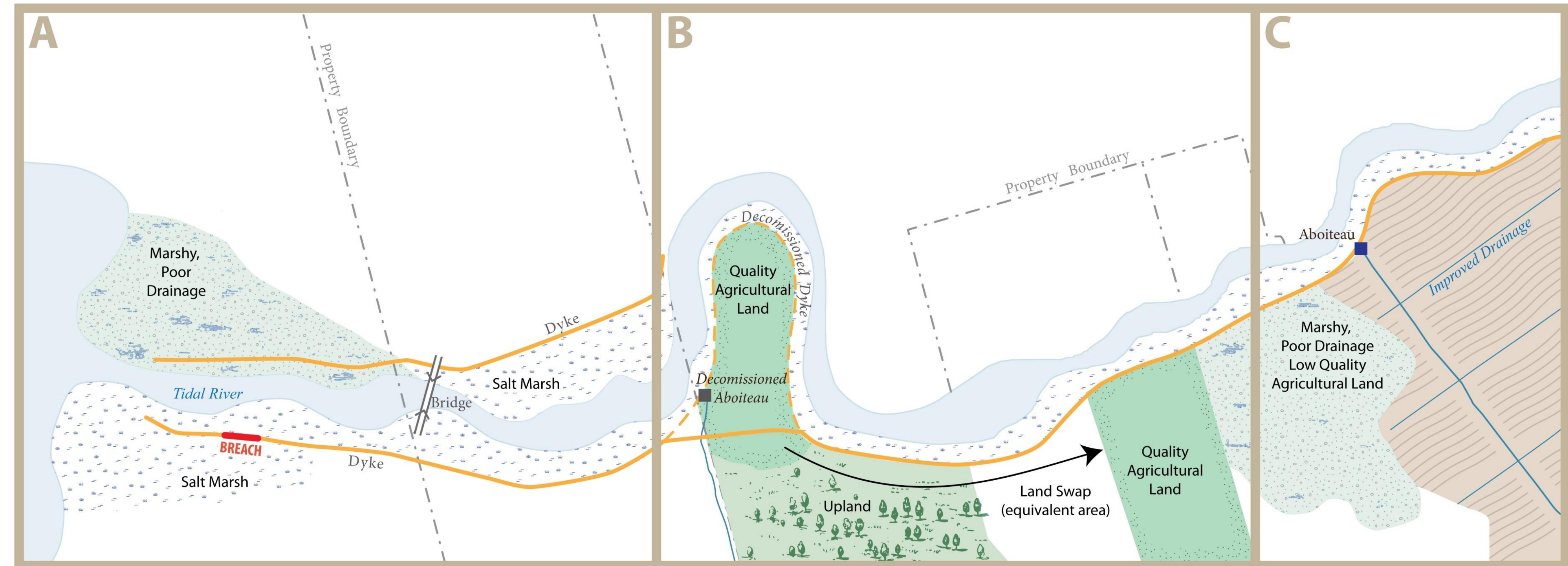


Earthworks at the Ksu'ksw Mqoqt/Hemlock Marsh Managed Realignment Site, restored 2022, CBWES Inc.

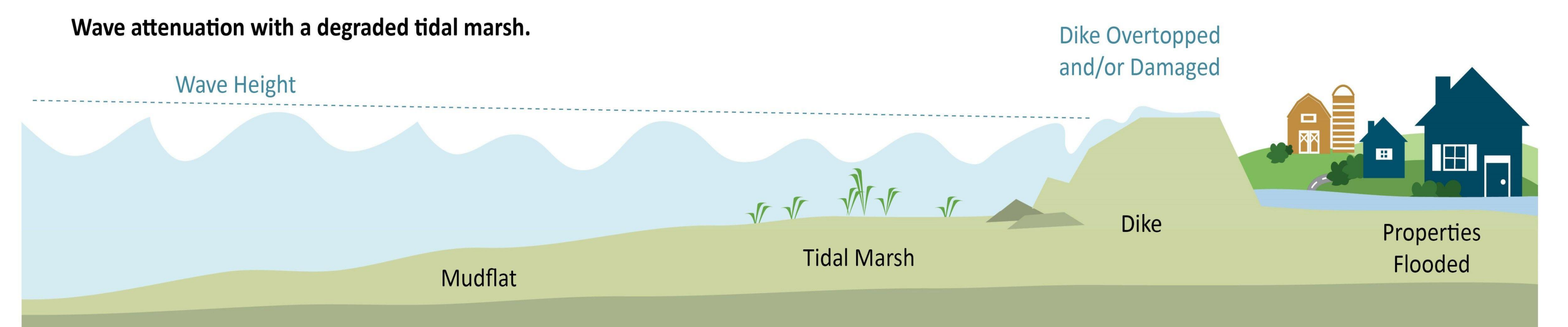
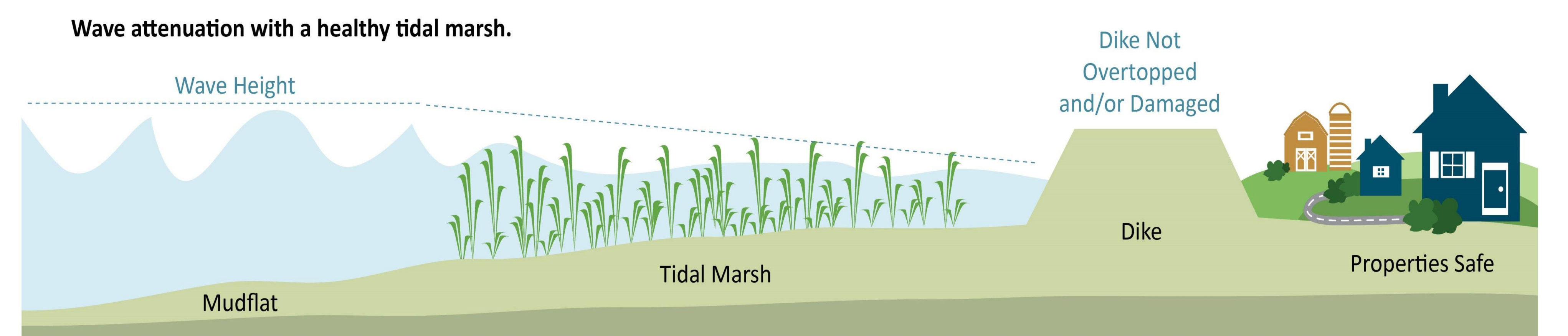


Earthworks at the Converse Marsh Managed Realignment Site, restored 2019, CBWES Inc.

MANAGED DYKE REALIGNMENT AND AGRICULTURAL DYKELANDS



FLOOD AND EROSION PROTECTION



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