

**Construction, Maintenance and Environment Work Programme  
Progress Update**

Report by Head of Construction, Maintenance & Environment

<p><b>Purpose:</b> This report sets out the progress made in the delivery of the 2018/19 Construction, Maintenance and Environment Section work programme to date.</p>
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## **1 Dredging and Waterways Specification**

- 1.1 The detailed breakdown in Appendix 1 gives the volumes for the dredging programme to the end of November 2018. A total of 25,580m<sup>3</sup> of dredged sediment has been removed from the prioritised sites. This actual figure represents 64% of the programmed target of 40,000m<sup>3</sup> for 2018/19.
- 1.2 Dredging on the Lower Bure has so far removed 17,500m<sup>3</sup> this financial year. This work has now exceeded the planned volumes but within the planned duration. Once the setback area at Six Mile House is full, the work moves upstream to the mid Bure with dredging in the South Walsham Fleet Dyke. Arisings from Fleet Dyke are bound for the setback area at Ant Mouth. Following the filling of this setback area, another setback area near Oby has been prepared so dredging in the mid Bure can continue through March 2019.
- 1.3 Dredging is underway at Hickling Broad, with the first priority area being the approach channel to Catfield Dyke. Project and design details are available on the CANAPE project website: <https://northsearegion.eu/canape/news/canape-first-sediment-dug-at-hickling-broad/>. The geotextile bags are being filled and laid out sequentially to form the outer ring of what will eventually form the new reedswamp area at Chara Bay. Filling the geotextile bags and completing the outer ring of this temporary lagoon is the priority for this winter. Latest pictures can be found on the Authority's Twitter feed: <https://twitter.com/BroadsAuth/status/1072164150078570502>. If time allows later in the winter, additional sediment is required to top up at Churchill's Bay, as well as into the Chara Bay lagoon itself. The wide range of environmental and ecological monitoring is on-going. With the support of the Environment Agency, an additional Prymnesium sample is being collected and counted each week for the duration of the project. So far water temperatures, water levels and Prymnesium counts have all been within thresholds safe for the work to continue.

## **2 24 hour moorings**

- 2.1 Piling contractors have now mobilised to Hoveton Viaduct 24 hour moorings for the work to re-pile 110 metres at the downstream end of this mooring. During works the remainder of the mooring will be open but without pedestrian access to Hoveton village. Work is expected to finish by early March.
- 2.2 Refurbishment of the timber capping and waling at Coltishall 24 hour mooring has been completed. The whole of the frontage of this large mooring has now been fully refurbished, including new signage and mooring posts, in the past two years.
- 2.3 At Neatishead Staithe 24 hour mooring, two new electric points are being installed for the first time. This has involved a bespoke electrical supply and associated groundworks. Final commissioning and connection will see these go live by late February 2019.

## **3 Riverside tree management**

- 3.1 Following the completion of the first outing of the Authority's new excavator and tree shears, the working methodology and handling of the voluminous brash heaps was evaluated. In terms of the final finish to achieve the mix of reduced branch encroachment over the water, reduced average tree height on the immediate bankside and retention of important wildlife habitat features, the trial was a success. Given the high productivity of the shears, adapting working methods and alternative, i.e. quicker, means of handling and dealing with the brash will be developed.
- 3.2 Other riverside tree management work has started with maintenance team, rangers and volunteer groups tackling priority areas on the River Ant near How Hill, Irstead and Neatishead; the Old Yare at Trowse; and Womack Dyke. More extensive work with contractors starts in the New Year.

## **4 Environment & Design Team**

- 4.1 The planning application for the sediment re-use and habitat creation project at Peto's Marsh on the River Waveney is being submitted in mid-December 2018. The initial phase of work planned for later in spring 2019 is preparatory work to mitigate for the water vole population which uses the site. Once this work is completed the construction of the crosswall to retain the sediment can be started.

Background papers: None

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Broads Plan ref: 2.1; 2.3; 3.1; 3.2; 4.2; 6.1  
Appendices: APPENDIX 1 – Dredging Progress 2018/19

## Dredging Progress 2018/19 (April 2018 to end November 2018)

Project Title	Project Element	Active BA dredging weeks Completed (to end Nov / Planned)	Volume Removed m <sup>3</sup>		Annual project Cost <sup>a</sup>	Actual project cost (Apr-Sept)
			Planned	Actual	Planned	Actual
<b>Lower Bure</b>	a) Three Mile House to Marina Quays (Apr-Aug) b) Marina Quays to Yacht Station (Sep-Nov)	32 / 32	14,000	17,530	£184,400	£207,850
<i>Six Mile House setback being filled until January 2019.</i>						
<b>Mid Bure</b>	a) Horning to Thurne Mouth (May-Jul) b) South Walsham Fleet dyke c) Oby to Acle Bridge (Feb-Mar 2019)	12 / 33	18,000	7,110	£190,450	£59,170
<i>Next setback area to fill is on the Lower Ant, with dredging in Fleet dyke</i>						
<b>Breydon Water</b>	Bar upstream of Breydon Bridge (Sept 2018)	1 / 1	500	300	£1,300	£1,300
<i>Mechanical dredging with excavator completed as an urgent safety hazard</i>						
<b>Hickling Broad</b>	Mudpumping marked channel in North Bay (Oct-Feb)	1 / 16	5,500	640	£148,850	£26,020
<i>CANAPE funded project underway</i>						
<b>Lower Bure</b>	<i>Plough dredge (Jan-Mar)</i>	<i>Contractor</i>	<i>2,000</i>	<i>0</i>	<i>£9,500</i>	<i>0</i>
<i>Contract for plough dredging to be deferred. Budget used to extend in-house dredging on Lower Bure</i>						
<b>Site restoration</b>	Rockland, Hickling, Stokesby	-	-	-	£42,590	£32,080
<i>All completed apart from Hickling ploughing of pumped sediment, which has been deferred til late spring 2019 when soil is dry enough</i>						
<b>TOTAL</b>		<b>46 / 82</b>	<b>40,000</b>	<b>25,580</b>	<b>£577,090</b>	<b>£326,420</b>

<sup>a</sup> –project costs includes staff time for all elements (pre-works ecological mitigation, site set-up, active dredging & site restoration); BA plant; & budgetary expenditure (equipment hire, survey costs, contractor costs, mitigation works, materials & consumables etc); within the reporting period.