



Meeting notes:

Project: Cromer Phase 2

Subject: Cromer Town Council

Meeting Place:	North Lodge Park	Meeting no:	N/A
Date and time:	24/01/22 19:00-20:00	Minutes by:	Thomas Walker
Present:	Fiona Keenaghan Brian Farrow Tamzen Pope Thomas Walker Cllr Angie Fitch-Tillett Cllr Tim Adams Cllr Timothy Bartlett Cllr Mike Bossingham Cllr Philip Harris Cllr Mick Hayhurst Cllr David Roberts Julie Chance Ruth Bartlett Unidentified Mem. Of Public.	Representing:	CPE & NNDC CPE & NNDC CPE & NNDC CPE & NNDC CPE & NNDC Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Cromer Town Council Member of Public Member of Public



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Minutes:

19:00- Tim opens the meeting. Questions will be allowed.

Angie Fitch-Tillett opens Presentation by introducing CPE employees. Hands over to Fiona.

Lays out how meeting will be presented, gather around the table so that they can see the aerial images.

From West Cromer, heading East.

FIRST IMAGE

Proposing a small rock structure to help out with flanking, subject to consultation with Natural England, as the structure will be in 'No Active Intervention' zone. If cliff erodes, this rock can be moved.

Remedial work to prom.

QUESTION: Are the state of the cliffs reviewed?

ANSWER: We monitor; Cromer has fairly stable cliffs, unlike sandy cliffs to the west. To the East, drainage down cliffs, still works. Toe protection helps to stabilise the cliffs. Trees and shrubs take liquid out. Only slip in Cromer in Brian's memory caused by man. One important thing when looking at cliffs, if there's a stream, leave it.

QUESTION: When barriers are put up, can that shift waves elsewhere?

ANSWER: East Coast is eroding, it's an historic problem and it didn't help to put defences in place, as beaches have lowered due to lack of incoming sediment Chalk bedrock helps to give longevity. Proposal of using rock; will absorb wave energy, rather than reflect it. Sea wall causes scour, rock absorbs energy.

QUESTION: Where is rock in relation to Runton Road car park?

ANSWER: The rock is to be at the toe of the cliff, below the car park. [Gestures on map]

QUESTION: Are rocks similar to those at Sheringham?

ANSWER: Slightly smaller.

QUESTION: You said the flint is doing the damage, is that by being thrown at stuff?

ANSWER: Absolutely.

QUESTION: Are rocks being put into cliff?

ANSWER: On toe of cliff. To stop sea wall being outflanked. We're trying to design something that will last for the next 50 years.



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NEXT IMAGE

Lots of work in this area; this blue line is where rock is proposed to be. Every high tide, the tide is hitting the wall, with a swell we see overtopping. Idea of rock is to dissipate 60% of energy hitting sea wall, so will see less abrasion, as rock limits energy. Will also help to prevent overtopping. The amount of flint on the promenade we saw two weeks ago, this rock will help to prevent this. Design of rock is still being discussed with consultants, whether it goes to first groyne, or to Melbourne slope. Depends on funding and consents. Will also be doing protection works; encasement of sea wall.

QUESTION: So you're wiping out the beach for holiday makers?

ANSWER: No, some of the rock will be buried, and that helps in the future. Some of it will be above beach. Cromer is no longer a sandy beach, it's a beach with mobile flints. We know rock works; we're trying to future proof Cromer for the next 50 years.

QUESTION: (member?) I know why we've lost sand the last few years, it's because of the new wall. The old sea wall; which was a straight wall, sand built up at the bottom of the wall. As soon as the wall was put like that, (curve) it washes the sand away. That could be rectified by making it a straight wall.

ANSWER: What our engineers say, is that any wall will take the sand away.

DISCUSSION ABOUT WHETHER SEA WALL COULD BE RECTIFIED.

ANSWER: Beach levels have dropped throughout the East Coast, so less material available in the system.

QUESTION: Do you have any artist's impressions of what this will look like?

ANSWER: Fi shows technical drawing of side profile of rock revetment.

QUESTION: If rocks knock energy out of waves, sediment will be deposited too?

ANSWER: Absolutely. Rock acts to help stabilise a beach, as water moves through rock, it loses energy.

But more importantly rock absorbs wave energy better than a seawall and will reduce the erosion of the foreshore

QUESTION: You'll be expecting that we're worried about our tourist trade. Cromer is a sandy beach tourist attraction. Concerned about rock. Is groyne technology no longer working?

ANSWER: For groyne technology to work, you must have sediment in the system. There's negligible sediment in the system, so groynes aren't working as well as they could.

QUESTION: Could you remove groyne bays to help?

ANSWER: Without enough sediment in the system, that won't help.

QUESTION: here you have an exposed post (under Pier) that was used as temporary platform, and its remains are re-emerging. Is it likely to stay there?



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ANSWER: What that tells you is that *your beach is dropping*. We are concerned to do whatever we can to protect your beach. We're suggesting in the scheme to supply the best structures to reduce erosion.

QUESTION: Flint over-topping is getting worse.

QUESTION (looking at technical drawing): Is the rock coming out 10 metres?

ANSWER: That's the horizontal dimension, about two metres high. Here's the apron, rock structure is about double the height of the apron.

QUESTION: How close to wall will rocks be?

ANSWER: Still subject to design.

Fiona lays out that access will not be lost, design of rock is still subject to consultants.

QUESTION: Will children play on rocks?

ANSWER: There are very few accidents around the country due to rock. There's an element of risk, but you don't hear of many accidents.

QUESTION: My concern is the lack of beach, and tourism. How will people use that beach if there's rock?

ANSWER: There's still access here. It's a compromise we have to make.

Fiona talks about the Armour-Flex. Shows photos of 2013 surge, damage to promenade and slope section below West Cliff. Lost a lot of slope. Whilst focussing on work on beach, will also be undergoing protection works to prevent slope slippage. Proposing Armour-Flex, shows photos of use around coastline. Outlines what Armour-Flex is and how it works. Will begin looking quite grey, but will be seeded with wild flower mix, after a few seasons, will look green.

QUESTION: Gullies are blocked at top of cliff. None of the drains have been operational. During various rains, it will overtop down cliff.

ANSWER: We'll see if we can pick that up.

Armour-Flex, you can see how the slope was damaged in 2013, this Armour-Flex protected Sheringham. Brian outlines the difference between Sheringham and Cromer after 2013. Cromer slope failures, Sheringham protected.

QUESTION: Kids may think it's a climbing wall when it is grey and unplanted.

ANSWER: We get that but do not think it is an issue long term and kids already play on it.

Tim: I was worried about this more than the rock, but has looked it over, there might even be biodiversity increase.

QUESTION: How long until it goes from grey to green?



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ANSWER: About a season, depending on conditions. Brian outlines how they work. Seed mix will be designed to work with our coast.

We will also be doing repair works on all of the groynes, from groyne 6 to groyne 1 as well as remedial works to navigation beacons.

QUESTION: At first there was the suggestion of rocks at the end of the groynes?

ANSWER: We're no longer doing that.

FAR EAST END OF BEACH.

NEXT IMAGE

No major works along sea wall to east of pier, groyne 2 repair works. By beach huts on east beach, along pink line on image, propose putting apron and sheet piles in, so that when beach levels drop here, wall will be stable. Future-proofing.

QUESTION: When will this be taking place?

ANSWER: Depending on consents, perhaps Autumn 2022.

Fishing Fraternity have been very supportive.

QUESTION: Once rocks are there, what effect will it have on chalk-bed and reef?

ANSWER: we don't expect it to have any particular effect on chalk-bed and reef.

FINAL DRAWING

Groyne 1 (Banksy), remedial work on groyne and beacon.

Meeting Ends 20:00



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