

MLA/2017/00249

Project summary

Application type

Please select the type(s) of application you are applying for.

If you wish to apply for a section 36 or 36A consent or a safety zone in addition to your marine licence application please tick the relevant box.

If you wish to also apply for consent under a local Act or Order please tick the Local Act consent box. Please explain which local Act or Order consent you are applying when giving details of the project background below. You should also upload a copy of the local Act or Order there too.

Application type

Marine licence

Please tick all additional application types that are relevant.

Additional application types

- Section 36 and Section 36A: Electricity Act 1989.
- Local Act Consent: Consent under a local Act or harbour order.

- Section 36
- Section 36A
- Local Act consent
- Safety zone

Project details

Project title

Enter the title of your project (max. 250 characters)

Emergency repairs to Withernsea Long Sea Outfall

Project background

You should explain the background to the project. This should include the aims of the project, the need for the project, whether it forms part of a larger project and any other relevant information. (max. 2000 characters)

The existing Withernsea Waste Water Treatment Works (WwTW) is located approximately 1.5km south of Withernsea. The WwTW and associated Long Sea Outfall (LSO) are at risk from on-going coastal erosion. Yorkshire Water Services (YWS) proposes to build a new WwTW and associated pipelines further inland, and construct a replacement LSO.

However, recent events at the site location have amplified the rates of erosion and compromised the predicted seabed changes and cliff erosion rates, putting the existing long sea outfall and WwTW at risk of becoming inoperable by the year 2024 as opposed to year 2051 (asset life of 60 years),

The attached site visit report [ARUP, 2017] illustrates the damage caused to the LSO protection. The outfall concrete tunnel is exposed and damaged close to the base of the cliff edge and extending some 100m offshore in the inter tidal beach zone.

Although the long sea outfall pipe is not currently visible, it is anticipated that pipe exposure is imminent, especially where concrete segments of the tunnel are broken and exposed. The potential for pipe collapse and damage is considered to be a high risk which would in turn cause pollution on the beach.

Programme of works

You should detail the proposed programme of works for the project. This should include proposed start and end dates for the overall project and individual elements of the project. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which activities could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

The proposed temporary pipeline protection works will be undertaken within 4 weeks after a marine licence is granted and weather/tidal conditions are favourable.

The proposed temporary pipeline protection works would be undertaken within a period of approximately 3 weeks including mobilisation and demobilisation, however due to the potential for weather / downtime delays a window of approximately two months has been proposed.

The temporary pipeline protection works would be designed to stay in place for a period of up to five (5) years. The works will be fully removed once they are no longer required (i.e. on commissioning of the new Withernsea LSO).

Related consents and applications

Have any other applications been made to the MMO in relation to this project?

Yes No

Has there been any other contact with the MMO in relation to this project?

Yes No

Have any applications been made to or consents issued by other authorities in relation to this project?

This could include applications for planning permission, environmental permits, development consent orders, transport and works orders, marine licences or any other type of licence, permit or consent. This could also include consents from local authorities, Government regulators, harbour authorities, devolved administrations, other European Union member states and any other type of authority.

Yes No

Do you have statutory powers to consent or undertake without consent any aspect of this project?

This could include statutory powers of a coast protection authority, harbour authority or lighthouse authority or any other type of statutory powers.

Yes No

Please give details

(max. 2000 characters)

Yorkshire Water has powers to access land at the works location to allow for access to the site and to establish a temporary works compound.

Is the project located within the jurisdiction of a statutory harbour authority?

This includes the jurisdiction of municipal, private and trust ports where they are a statutory harbour authority.

Yes No

Applicant details

This is the person, company or organisation that will hold the licence.

Contact type

Select the Contact type. Individual should only be selected when the contact is not working on behalf of an Organisation.

- Individual
- Organisation

Trading title (if applicable)

Title

Ms

Forename

Emma

Surname

Jose

Organisation name

YORKSHIRE WATER SERVICES LTD

Reg number

Position in organisation

Project Manager

Contact within company

Postcode

LS10 1LJ

Postal address

LIVINGSTONE HOUSE
CHADWICK STREET
LEEDS

Telephone number

Please enter numbers, brackets and the international symbol (+) if needed.

07791 817 138

Fax number

Please enter in format +00(0)0000 000000

Email address

Please enter a valid email address formatted as xx@xx.xx

Emma.Jose@yorkshirewater.co.uk

Sustainable development

The MMO strongly advise that a strategic appraisal is completed. Issues that should be considered include:

1. Identification of any conflicts between the project and the relevant marine plan.
2. Identification of alignment of the project with the Marine Policy Statement and any relevant National Policy Statement.
3. Identification of the environmental, social and economic drivers for a project that have been identified through existing feasibility studies or discussions with other public bodies (e.g. Local Authorities or Local Economic Partnerships).
4. Identification of any potential issues that may arise due to EU legislation (e.g. Water Framework Directive, Marine Strategy Framework Directive, Habitats Directive), and how these can potentially be avoided, or mitigated, at the strategic level.
5. Identification of any priority issues that may need addressing with regard to cumulative effects.
6. Options appraisal undertaken by the applicant, and the social, economic and environmental reasoning behind why the preferred option has been chosen.

Marine policy and plans

Have you assessed whether this project is in accordance with the Marine Policy Statement and any relevant marine plans?

Yes No

Please give details

(max. 2000 characters)

No marine plan currently exists for the North East Inshore Marine Area. Where there is no marine plan in place, the Marine Policy Statement (MPS) sets the direction for decisions that affect the marine areas. The MPS has therefore been reviewed and the proposed emergency works align with the MPS position on 'surface water management and waste water treatment and disposal' (section 3.10 of the MPS). The proposed emergency works will therefore contribute to the protection of the marine environment and other sea users.

Have you assessed this project with regard to other policy statements and spatial plans?

This includes national, regional and local policy and spatial plans.

Yes No

Environmental impact assessment

Has an environmental statement been produced to support this project?

Environmental statements are required for projects of a type listed in the Environmental Impact Assessment Directive. If you are not certain whether your project falls within this category, please contact us before proceeding with your application.

Yes No

Habitats regulations assessment

Have the effects of the project on European sites been considered?

Yes No

Please give details

(max. 2000 characters)

The requirements of The Conservation of Habitats and Species Regulations 2010 (SI 2010 No 490) (as amended) (the 'Habitats Regulations') have been fully considered where relevant.

Our assessments are presented in the appended document; I&BPB5063N001F0.1_MLA Supporting Text (Question 1)

Our conclusions are as follows;

Ornithological Interest

No significant impacts are therefore predicted on the pSPA from the proposed temporary pipeline protection works, and no restrictions on undertaking the proposed works during the overwintering bird period are considered necessary.

Hydrodynamics and Sediment Transport

The temporary pipeline protection measures are not therefore considered to have the potential to significantly interfere with coastal processes or sediment supply to designated sites, and no significant impacts are predicted

Marine conservation zone assessment

Have the effects of the project on marine conservation zones been considered?

Yes No

Please give details

(max. 2000 characters)

Yes. The requirements of Sections 125 and 126 of the Marine and Coastal Access Act 2009 (as amended) ('the 2009 Act') have been fully considered where relevant.

Our assessments are presented in the appended document; I&BPB5063N001F0.1_MLA Supporting Text (Question 2)

Our conclusions are as follows;

Based upon an estimated area of 500m² (including working area), once installed the proposed temporary pipeline protection works would cover an area of approximately 0.16% of the MCZ.

Whilst there would be a short-term, localised effect on the habitats and species in the immediate footprint of the temporary pipeline protection works and access area, in the context of the extents of such intertidal habitats within the MCZ the impacts are considered to be negligible.

Due to the small scale of the works proposed, and their temporary nature it is not considered likely that there will be any discernible change in the interest features of the MCZ.

No further assessment under S126 of the MCAA 2009 is therefore deemed necessary.

Sites of special scientific interest

Have the effects of the project on sites of special scientific interest (SSSI) been considered?

Yes No

Please give details

(max. 2000 characters)

Yes. The requirements of the Wildlife and Countryside Act 1981 (as amended) have been fully considered where relevant.

The Withernsea LSO lies 3.2km north west of the Dimlington Cliff SSSI, a key feature of which is as an example of Quaternary stratigraphy.

For the purposes of the proposed temporary pipeline protection works no significant impact on such features is predicted due to the small scale, temporary nature of the activities and the distance from the SSSI.

Water Framework Directive compliance assessment

Have the effects of the project been considered in accordance with the Water Framework Directive?

Yes No

Please give details

(max. 2000 characters)

Yes. The requirements of the Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 have been fully considered.

The only waterbody considered to have the potential to be affected by the proposed works is the 'Yorkshire North' coastal waterbody (GB650301500003). This waterbody has been classified as 'heavily modified' due to modifications for flood protection purposes.

Due to the short -term construction phase and temporary nature of the proposed temporary pipeline protection works, no non-temporary effects are predicted upon biological, chemical or physical elements of the WFD water body, and they will not cause deterioration in any WFD water body. No further assessment is therefore deemed necessary.

Consultation and advertising

Has public consultation taken place and/or has the project been advertised?

Yes No

Please give details

(max. 2000 characters)

Yes - the original application was advertised in the Holderness Gazette on Thursday 3rd August 2017. A copy of the application documents was also made available for public inspection at Withernsea Public Library, Queen Street, HU19 2HH.

Has consultation about the project with any other statutory body taken place?

Yes No

Please give details

(max. 2000 characters)

YWS has engaged with The Crown Estates regarding the working area and placement of materials on the foreshore.

YWS also held a meeting on 16th August 2017 with East Riding of Yorkshire Council (ERYC) regarding the proposals, and this application has since been updated following this meeting.

Licence summary

Do you consider this application to be for emergency activities?

Emergency activities are those undertaken for the protection of life, property or the environment from an imminent risk.

Yes No

Do you consider this application to be for activities which fall within the fast

track process?

The fast-track process applies to certain types of small-scale low-risk activity which does not require consultation.

Yes No

Do you consider this application would qualify for the accelerated licensing process for dredging?

The accelerated licensing process applies to certain types of small-scale low-risk dredging activity.

Yes No

Proposed licence start date

01-OCT-2017

Proposed licence end date

31-AUG-2023

Site summary

Please provide the location of your proposed activities. Note that the responsibility for determining whether your proposed activities are below Mean High Water Springs (MHWS) rests with the applicant. If there is any doubt as to whether a site lies below MHWS you can undertake an independent survey to determine its location.

Use the 'Add/edit site(s)' button below to add one or more more locations to your application.

Next use the 'Add activity' button to add activities to your locations. (NB this option only appears once a location is created).

Basic examples:

Dredging at RiverA. Create one site for RiverA and add dredging as an activity.
 Dredging and quay wall improvements at RiverA. Create 2 locations: one for the dredging in front of the new quay area and one for the quay wall improvements.
 Dredging at RiverA and removal of large concrete block within the dredge area. Create 1 location and add two activities: 1 activity for removal and 1 activity for dredging.

Additional functions:

Subsites, Holes and Exclusion Zones can also be used more guidance is available in the 'Help' guide.

Activities:

When an activity is added to a site it is listed in a table. Click on the activity name in the table or use the links on the left hand side of this screen to navigate to the activity screen where you can provide your method statement and other information.

If you delete a site, the activities linked to it will still be visible on this screen. You must delete these activities or move them to a valid site.

If you would like any advice on using this form or structuring your application please contact us.

Sites

Please see included locations.kml file for detailed site locations.

Withernsea LSO Emergency Works

Site sensitivities

You should provide details of any protected areas (European or Ramsar sites, marine conservation zones, sites of special scientific interest, areas of outstanding natural beauty etc) and protected features (scheduled monuments, protected wrecks etc). You should also provide details of other areas and features of social, economic or environmental value. This could include shipping lanes, fishing grounds, recreational sailing areas, material assets, unprotected habitats and species and any other feature. (max. 2000 characters)

The proposed emergency works are located within the boundaries of the Great Wash SPA and Holderness Inshore MCZ.

There are no known protected wrecks or features of archaeological interest located within the vicinity of the proposed emergency works.

List of activities at this site

Activity	Site	Activity type	Actions
Installation of temporary protection measures	Withernsea LSO Emergen...	Other deposits	
Annual maintenance of rock-filled bags	Withernsea LSO Emergen...	Maintenance of existing works	
Removal of temporary protection works	Withernsea LSO Emergen...	Decommissioning of works	

Withernsea LSO Emergency Works - Installation of temporary protection measures

Site

Please see included locations.kml file for detailed site locations.

Activity details

Activity type

Please select the type of activity that would take place. If more than one activity would take place you should enter the details of one activity here and then add another activity.

Activity type

Deposit of any substance or object

Activity subtype

Other deposits

General

Activity title

Enter the title of this activity (max. 250 characters)

Installation of temporary protection measures

Activity description

You should include a detailed description of the activity. For construction activities, this should include the dimensions of the works and materials to be used. (max. 2000 characters)

The potential temporary solution will consist of the following:

Foreshore/pipeline route - Rock filled bags with filter units (4 tonnes each, approximately 72 no.).

Cliff face/edge - Rock filled bags with filter units (4 tonnes each, approximately 41 no.).

These rock filled bags are capable of withstanding the calculated environmental load and offer an acceptable safety factor. The following design criterion was adopted:

- Max Water Depth: 3.8m at HAT
- Max wave height Hmax: 2.96m which accounts for a 1 in 100 year storm condition at the site.
- Design Velocity: 3.25m/s (max)
- Current Velocity: 1m/s

Wave and Current direction of attack - 90deg (worst case)

Activity methodology

Your method statement should clearly explain how you are going to carry out the activities providing detail on any materials and plant to be used as well as proposed programme timings. (max. 2000 characters)

A temporary access from the cliff top will to be created to access the foreshore. This will allow for a tractor and trailer and tracked excavator to track across the foreshore to place the required temporary protection over the exposed pipeline. It is likely that this will be achieved by placing removable rock-filled bags with protection mats on the cliff face to allow for tracking of plant from a temporary compound/lay down area on the cliff to the beach.

The proposed temporary pipeline protection works will involve the placement of rock armour bags at the base of the cliff and further rock armour bags along the route of the failing LSO pipeline.

All materials will be transported to a lay down area on the cliff prior to placement. No materials will be stored on the beach or foreshore.

Pipeline protection

This requires the use of 72 rock bags 2.4m in diameter and 600mm high laid over the pipeline route within the concrete tunnel section (approx. 120m long). Each rock bag will weigh approx. 4 tonnes each and will be arranged in a honeycomb formation over the outfall as shown in drawing PB5063-WSEA-022-Rev 1 (attached).

Bags placed over the pipeline would be expected to raise the profile of the foreshore by approximately 600mm (0.6m) above beach level along the centre line of the outfall structure.

No excavation of the foreshore would be required.

Cliff protection

Towards the cliff edge/face, erosion protection measures will utilise the use of 41 rock filter bags that weigh approx. 4 tonnes each as shown in drawing PB5063-WSEA-022. At the base of the cliff, bags will be to a height of half the cliff (approximately 2.5m). The bags are highly flexible and would mould to the uneven contours of the cliff and pipeline. A small amount of excavation above MHWS at the toe of the cliff may be required. This to place the nets directly onto the Glacial till layer. The sand layer moved is approx. 0.15 cm high.

Activity start date	Activity end date
01-OCT-2017	30-NOV-2017

Activity programme

You should detail the proposed programme of works for the activity. This should include proposed start and end dates for the activity. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which the activity could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

The works will be undertaken within 4 weeks after a marine licence is granted and weather/tidal conditions are favourable. The proposed temporary pipeline protection works would be undertaken within a period of approximately 3 weeks including mobilisation and demobilisation, however due to the potential for weather / downtime delays a window of approximately two months has been proposed.

The temporary pipeline protection works would be designed to stay in place for a period of up to five (5) years. The works will be fully removed once they are no longer required (i.e. on commissioning of the new Withernsea LSO).

Potential impacts

You should detail the potential impacts this activity may have. This should include social, economic and environmental impacts. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Works will be undertaken during autumn 2017. Whilst this will be within the overwintering bird period it is considered the works are if such a small scale and localised, and will be for a very short period of time and limited by tidal working, that they will not have the potential to have an adverse impact upon the interest features of the Greater Wash pSPA. This has been described in more detail in the previous sections

Please see previous sections of application relating to:

- EIA.
- HRA.
- MCZ assessment.
- SSSI.
- WFD compliance assessment

Proposed mitigation

You should detail the mitigation you propose in response to the potential impacts. This should include a detailed explanation of the mitigation measure and evidence to demonstrate that the mitigation is likely to be successful. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

In addition to the installation of the rock bags at the base of the cliff, a minor amount of excavation above MHWS at the toe of the cliff may be required to allow for the protection bags to be 'toed-in' in this location. This material would be redistributed on the upper beach. No excavation of the foreshore will be necessary to allow for the placement of the temporary pipeline protection measures along the length of the existing pipeline.

Royal HaskoningDHV and Yorkshire Water Services consulted the East Riding of Yorkshire Council (ERYC) in relation to the proposed temporary pipeline protection works for the Long Sea Outfall at Withernsea on the 16th of August 2017.

It is considered that the recommended temporary pipeline protection works will in turn temporarily (up to 5 years) interrupt longshore sediment transport and create outflanking of the cliff creating a headland which will be subject to erosion within the immediate vicinity. To combat the aforementioned issues, an observation and maintenance procedure would be adopted for up to 5 years as discussed with ERYC.

The impacts to be monitored are;

- Temporary interruption of longshore sediment Transport, and
- Temporary cessation of cliff recession

The proposed and agreed mitigation measures are outline in the attached note (MAPB5063N002F02) and include;

- Proposed 5-year Observation Plan
- Predicted Annual Maintenance activities (to be discussed further in Activity 2).

Best practice guidance will be adhered to during construction activities, namely:

- Environment Agency Guidance - e.g. Works and maintenance in or near water (GPP5); and,
- CIRIA Coastal and Marine Environmental Management Site Guide (CIRIA report C584).

Residual risks

You should detail the residual risks from the activity following the mitigation. This should include an assessment of the significance of the risks and evidence to show why these risks cannot be avoided or further mitigated. (max. 2000 characters)

No residual risks are predicted.

Additional supporting information

You should use this section to provide any further information about this activity that you wish to have taken into account in the processing and determination of this application. (max. 2000 characters)

Other deposits

Material details

Start date	End date	Description	Amount to be
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			deposited (kg)
01-OCT-2017	30-NOV-2017	Rock filled bags with filter units (2 tonnes each, approximately 72no.).	288000
01-OCT-2017	30-NOV-2017	Rock filled bags with filter units (2 tonnes each, approximately 41no.).	164000

Further details

Additional information

(max. 2000 characters)

A promotional brochure demonstrating the likely type of rock filled bags is attached for information.

Supporting documents

Withernsea LSO Emergency Works - Annual maintenance of rock-filled bags

Site

Please see included locations.kml file for detailed site locations.

Activity details

Activity type

Please select the type of activity that would take place. If more than one activity would take place you should enter the details of one activity here and then add another activity.

Activity type

Construction, alteration or improvement of any works

Activity subtype

Maintenance of existing works

General

Activity title

Enter the title of this activity (max. 250 characters)

Annual maintenance of rock-filled bags

Activity description

You should include a detailed description of the activity. For construction activities, this should include the dimensions of the works and materials to be used. (max. 2000 characters)

RHDHV estimates that subject to an ongoing observation maintenance programme, approximately 20 to 30 additional rock filter bags may be required per year to effectively reduce the predicted effects of erosion on the LSO and associated works. Each rock bag will weigh approx. 4 tonnes each and is 2.4m in diameter and 600mm high.

The final number of additional bags required for the maintenance programme per year will be determined following an assessment of the actual erosion rates.

During consultation, it was agreed with ERYC that a representative would attend some of the visits and that it was further agreed that the mitigation would need to be based on observations of effects rather than pre-defined triggers. Further comparisons will also be made to assess maintenance requirements through the on-going six monthly monitoring currently being conducted by ERYC.

On the basis of these observations, if required, additional maintenance works to minimise the impacts of the expected minor build-up of sediment on the up drift (northern) side of the protected pipe may be implemented. Regular observation will identify the need for the use of mechanical plant if sand levels build up on either side of the structure. This build up may need to be reduced and placed on the down drift side of the structure to ensure continued longshore sediment transport towards the south.

Activity methodology

Your method statement should clearly explain how you are going to carry out the activities providing detail on any materials and plant to be used as well as proposed programme timings. (max. 2000 characters)

Installation of rock bags for maintenance purposes will be conducted in a similar manner to that of the construction of the temporary pipeline protection works by accessing the foreshore via a temporary ramp and lifting bags into position using a tracked crane.

Activity start date	Activity end date
01-NOV-2017	01-OCT-2022

Activity programme

You should detail the proposed programme of works for the activity. This should include proposed start and end dates for the activity. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which the activity could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

Works would be undertaken annually for up to 5 years when maintenance of the existing bags was required.

Maintenance activities would take approximately 3 weeks including mobilisation and demobilisation.

It is not known for certain when the permanent replacement LSO works will commence, however, it is estimated that this will occur prior to 2022.

Potential impacts

You should detail the potential impacts this activity may have. This should include social, economic and environmental impacts. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Please see previous sections of application relating to:

- EIA.
- HRA.
- MCZ assessment.
- SSSI.
- WFD compliance assessment.

Proposed mitigation

You should detail the mitigation you propose in response to the potential impacts. This should include a detailed explanation of the mitigation measure and evidence to demonstrate that the mitigation is likely to be successful. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Maintenance works would be planned to be undertaken outwith the overwintering season where possible to minimise the potential for impacts on designated features of the Greater Wash pSPA

Best practice guidance will be adhered to during maintenance activities, namely:

- Environment Agency Guidance - e.g. Works and maintenance in or near water (GPP5); and,
- CIRIA Coastal and Marine Environmental Management Site Guide (CIRIA report C584).

Residual risks

You should detail the residual risks from the activity following the mitigation. This should include an assessment of the significance of the risks and evidence to show why these risks cannot be avoided or further mitigated. (max. 2000 characters)

No residual risks are predicted.

Additional supporting information

You should use this section to provide any further information about this activity that you wish to have taken into account in the processing and determination of this application. (max. 2000 characters)

Maintenance of existing works

Use intended to be made of the works

You should detail the use that will be made of the works. For example, if you are proposing to build a quay to use for unloading cargo then you should detail the type of cargo, quantity to be unloaded, frequency of unloading, methodology of unloading and any other relevant information. (max. 2000 characters)

The maintenance works will allow for the continued effective protection of the cliff and existing LSO for a period of up to 5 years from installation. All materials will be fully removed once no longer required

Withernsea LSO Emergency Works - Removal of temporary protection works

Site

Please see included locations.kml file for detailed site locations.

Activity details

Activity type

Please select the type of activity that would take place. If more than one activity would take place you should enter the details of one activity here and then add another activity.

Activity type

Removal of any substance or object

Activity subtype

Decommissioning of works

General

Activity title

Enter the title of this activity (max. 250 characters)

Removal of temporary protection works

Activity description

You should include a detailed description of the activity. For construction activities, this should include the dimensions of the works and materials to be used. (max. 2000 characters)

All protection works will be fully removed from the marine environment once no longer required.

Activity methodology

Your method statement should clearly explain how you are going to carry out the activities providing detail on any materials and plant to be used as well as proposed programme timings. (max. 2000 characters)

The removal methodology will be a reverse of the installation methods.

Removed materials will either be reused if possible or will be disposed of at a suitably licenced disposal site

Activity start date	Activity end date
01-APR-2023	31-AUG-2023

Activity programme

You should detail the proposed programme of works for the activity. This should include proposed start and end dates for the activity. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which the activity could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

Activity start dates as above or within 4 months after new LSO becomes operational

Removal activities would take approximately 4 weeks including mobilisation and demobilisation.

Potential impacts

You should detail the potential impacts this activity may have. This should include social, economic and environmental impacts. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Please see previous sections of application relating to:

- EIA.
- HRA.
- MCZ assessment.
- SSSI.
- WFD compliance assessment.

Proposed mitigation

You should detail the mitigation you propose in response to the potential impacts. This should include a detailed explanation of the mitigation measure and evidence to demonstrate that the mitigation is likely to be successful. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Removal works would be planned to be undertaken outwith the overwintering season where possible to minimise the potential for impacts on designated features of the Greater Wash pSPA

Best practice guidance will be adhered to during maintenance activities, namely:

- Environment Agency Guidance - e.g. Works and maintenance in or near water (GPP5); and,
- CIRIA Coastal and Marine Environmental Management Site Guide (CIRIA report C584).

Residual risks

You should detail the residual risks from the activity following the mitigation. This should include an assessment of the significance of the risks and evidence to show why these risks cannot be avoided or further mitigated. (max. 2000 characters)

No residual risks are predicted.

Additional supporting information

You should use this section to provide any further information about this activity that you wish to have taken into account in the processing and determination of this application. (max. 2000 characters)

Licence conditions

Are there any conditions you consider should be added to the marine licence?

Any suggested conditions will be considered as part of the application and may be applied to the consent. However, proposed conditions may also be edited or removed and other conditions may be applied in addition to or in place of any conditions you propose.

Yes No