

Apply for a Band 1 marine licence

Project description

Project name

Chepstow A48 Drainage Band 1 Marine License

Please provide a brief description of the proposed project, including location.

South Wales Trunk Road Agent (SWTRA) has commissioned WSP UK Ltd to investigate an issue with their highway drainage system in Chepstow which urgently requires access. A drainage problem is causing flooding of private land nearby, this is considered to be emergency works and arrangements are being made for clearing and investigation operations to take place. The works involve clearance of an existing outfall into the River Wye, to undertake drainage investigations from an associated chamber, located several meters inland. The site is located below the A48 road bridge and crosses beneath both road and rail bridges.

Within the Marine licensable area (Mean High Water Springs (MHWS)) the activities include:

- Unblocking and dewatering of existing manhole and pipework;
- Managing contamination;
- Locating and clearance of outfall headwall; and
- Replacement of a Flap Valve

Does the activity have an estimated project cost for marine works over £1 million? If yes, the activity is no longer eligible for a band 1 application and a band 3 application will be required.

No

Applicant details

To whom the licence will be issued. This must be a legal entity such as an individual, registered company/ charity or public body.

Title	Mr
Full name	Andy Cole
Company or trading name	South Wales Trunk Road Agent
Company Registration Number (if applicable)	N/A
Name of contact or individual (if different)	Andy Cole
Position in company	Project Manager/PrincipalEngineer
Address (provide registered company address if applicable)	South Wales Traffic Management Centre - -
Postcode	CF14 7EF
Telephone number	+44 7725182070
Email address	a.cole@southwales-tra.gov.uk

Details of agent, contractor, vehicles and/or vessels used to carry out works

Agent details

This is who we will correspond with unless otherwise informed. If no agent is identified we will contact the applicant.

Title	Miss
Full name	Martha Smith
Company or trading name	WSP UK Ltd
Company Registration Number (if applicable)	01383511
Name of contact or individual (if different)	N/A
Position in company	Undergraduate Environmental Consultant
Address (provide registered company address if applicable)	WSP House - -
Postcode	WC2A 1AF
Telephone number	+44 20 7337 2483
Email address	martha.smith2@wsp.com

Does the applicant wish to be included in all correspondence?

Yes

Will the works require the use of vessels?

No

Will the works require the use of any vehicles?

Yes

Proposed project details

Licensable period

Determination of applications will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the requested licence expiry date you may be required to submit a new application. Including a contingency period within your original application does not impact on the licence fee.

Start date (DD/MM/YYYY) 08/01/2024

Requested licence expiry date (DD/MM/YYYY) 08/04/2024

Please detail the location of the proposed project.

This should be either Ordnance Survey National Grid Reference (i.e. SN 12345 67890) or Latitude and Longitude in decimal degrees to 4 decimal places (i.e. Lat 52.1234 Long -4.1234), defining the extent of the project. Please specify which coordinate system has been used and if using GIS co-ordinates, specify which projection has been used.

Lat 51.6432 Long -2.6676

Method statement

Are the works within a sensitive area or one of the following activities: boreholes, replacement piles or beach management?

Yes

Band 1 method statement template

You can upload your method statement here or fill in the questions below.

- File: Location Plans.pdf - [Download](#)
- File: AGC-MS-003-A48 Chamber 1 Clearance V1.pdf - [Download](#)
- File: Location of Works.pdf - [Download](#)
- File: Chepstow Site Access and Compound_Final.JPG - [Download](#)

Please provide a brief summary of the application including location of the works (coordinates - lat/long, decimal degrees). For activities that cover a large area please provide coordinates of the approximate extent of works.

This Method Statement provides the sequence of works for the A48 Drainage scheme. It has been identified after recent flooding events that there is a blocked drainage run located between chamber 1 and the headwall/ Outfall, as shown in the image in attached Method Statement (AGC-MS-003-A48 Chamber 1 Clearance V1.pdf). The works will cover the removal of backed up water, mud, and silt from the areas between chamber 1 and the headwall/outfall, and removal of tidal build up from around the headwall/outfall area. Once uncovered, the flap valve, located on the wall of the outfall, will be removed and replaced with a new marine type valve as per the specification.

This Method Statement covers the following activities.

- Unblocking and dewatering of existing manhole and pipe work.
- Managing contamination.
- Locating and clearance of outfall headwall.
- Replacement of flap valve.

The location of works are: Lat 51.6432 Long -2.6676. Please see location of works in the attached file 'Location of Works.pdf'.

Scope of works

Please provide a full description of all proposed works including: Sequence of works (mobilisation, marine works, site remediation (if required)) Estimated timing of works (duration, working hours, day/night, plus contingency) Plant, machinery or vessel required Estimated quantities (removals, deposits, construction materials)

The scope of works is:

- Unblocking and dewatering of the existing manhole and pipe work (operation 1).
- Managing contamination (occurs alongside Operations 1 and 4).
- Locating and clearing of the outfall headwall (Operation 4).
- Replacement of flap valve (part of Operation 4).

The timing of works are:

- Works will take place between daylight hours (08:00-18:00), dependent on the tide.
- The aim is to commence works on the 8th January 2024,
- The estimated duration of the works is three months.

Equipment

- Jet Vac Unit.
- Long Reach excavator.
- 8-ton Excavator.
- Fall Arrest equipment.
- Pedestrian Fencing.
- Heras Fence panels.
- Jetwash.
- Spill kits.
- Spill Granules.
- Lifelines.
- 3 way lifting chain.
- Lifting eyes.
- D link.
- Boot wash station.
- Cat 4 plus with Genny.
- Breaker pack.
- Disc cutter.
- Clips.
- Scaffold walkway.
- Access steps.

Methodology:

Prior to commencing the works:

- Works shall only take place once the application has been accepted or approved by NRW;

- All site operatives to be inducted;
- All relevant competency cards inspected by site management;
- All services to be found by trial holes, some of these trial holes will be completed prior to any pipe replacement works or excavation for finding manhole 1;
- Area to be scanned with CAT4+ and Genny4+;
- Permit to work/excavate to be issued;
- Liaison with STATS representatives where necessary;
- All lifting certification to be kept in the site office;
- All lifting accessories shall be checked visual for defect before use;
- Safe working load to be established before lifting operations are carried out as well as lift plans and supervisors allocated;
- All plant to be checked daily for defects & recorded;
- Competencies are checked and updated for the works being undertaken for example confined space working.;
- AGC supervisor to monitor both weather forecasts and tidal times at all times during the works;
- Works are not permitted within the river bank during high tide or until the river is at such a level that its deemed safe to continue by the AGC supervisor;
- Additional time allowance must be made prior to the forecasted tide times to move plant and equipment from the riverbank edge; and
- Note: All plant, footwear and equipment entering the riverbank will be required to be washed using Virkon Aquatic, or similar, before and after the project to help prevent spread of crayfish plague .

Method/ procedures of operations:

A safety briefing shall be held with all operatives involved in the operation and appropriate RAMS signed on to before works commence. The works are to be broken down into 4 elements as detailed below. No excavation will take place unless the Person in charge of excavation (PICE) is at the works location. Works must cease when the PICE is not on site.

The works methodology is outlined below, and these will be undertaken to assist in the clearance of the main headwall outlet. The dewatering and cleaning will prevent potential contaminated silted water from entering the River Wye. This method will also reduce the pressure of water within the drainage lines, and aid in the cleaning and inspection of the drainage prior to uncovering the main headwall outlet. All works will be subject to the correct licenses and permits as follows:

- Marine license;
- Permit to dig; and
- Lift Plan.

Operation 1 Methodology (removal of backed up water and silt):

Please see: Operation 1 - Chamber 1 to Headwall image within Location Plans.pdf

*All plant, footwear and equipment entering in the riverbank will be required to be washed using Virkon Aquatic or similar before and after the project to help prevent spread of crayfish plague.

- The jet vac will remove the water and silt build from chamber 1 and continue towards the headwall to ensure all silt and other materials are removed prior to uncovering the headwall/outfall.
- Prior to uncovering the headwall/outfall a CCTV robot will be sent down from chamber 1 to the headwall/outfall to ensure all build up is removed.
- If the CCTV shows further buildup against the flap valve the jet vac will be sent back in to clear the remaining build up.
- All Contaminants will be removed from the line and transferred by tanker as shown below to a registered waste transfer station.
- All waste will be subject to waste transfer notice with regular checks by the construction team to confirm transfer of waste to the correct facility.

Operation 4 Methodology (investigating condition of flap valve):

To locate the outfall headwall the site team will use CCTV from chamber 1 and send the robotic unit towards the outfall head wall to try to determine the condition and to check if there are any visible defects from within the pipe itself. The CCTV will also provide a measurement for the site team to determine where to begin the excavation works to locate the headwall. Please see Location of Chamber 1 and Headwall image within Location Plans.pdf.

- Once a measurement has been obtained the site team using a long reach excavator (similar to the below) fitted with a

grading bucket and positioned at the top of the embankment will slowly remove the material from the proposed location of the head wall.

- All material removed will be removed and regraded back onto the riverbank and compacted using the back of the bucket.
- The machine will continue to excavate in no more than 100mm layers until the top of the outfall wall is located. At this stage it is currently unknown as to the volume of material that will require removal, as we don't have any further information currently about how much the headwall has been blocked up.
- Once the top of the outfall wall is located the machine will alter the bucket size to suite the required width to remove the excess material in front of the head wall.
- Again, all material excavated will be spread evenly within the riverbank and compacted using the back of the bucket where possible.

Replacement of Flap Valve:

Upon clearing of the head wall there may be a requirement to replace the existing flap valve located on the headwall itself as shown below. The following method below will be used and adhered to at all times.

- A walkway will be created from the hard standing out to the top of the head wall to allow access to the headwall for site teams to access the work area.
- A cleaning station for boots and tools will be installed along the walkway to be used before entering and leaving the work site.
- Steps will be installed down from the top of the head wall to allow access to the concrete apron and the flap valve location.
- The existing flap valve will be removed from the headwall and will be cleaned prior to removing it to tip.
- Any remaining fixings will either be removed or cut flush with the concrete.
- New fixings will be drilled into the concrete face of the headwall using a hand drill and vacuum extractor unit.
- The flap valve will be offered up onto the wall and fixed into position using galvanized or stainless-steel fixings as specified within the contract documents.
- Flap valve will be tested for operation and adjusted if required.
- Once complete the head wall will be cleaned using Virkon aquatic or similar and the steps will be removed.
- The walkway will be removed, and all equipment and footwear will be prior to entering back onto the hard standing located under the railway structure.

Access and working areas

Please provide details of access to the site and working areas. This should include:
Attached map of the access/egress route and working areas (annotated aerial image and/or OS map)
Predicted plant/vehicle movements
Storage areas for plant, equipment and materials (if required)
Risks to navigation

Please see Chepstow Site Access and Compound_Final.JPG

- A walkway will be created from the hard standing out to the top of the head wall to allow access to the headwall for site teams to access the work area.
 - A cleaning station for boots and tools will be installed along the walkway to be used before entering and leaving the work site.
 - Steps will be installed down from the top of the head wall to allow access to the concrete apron and the flap valve location.
 - Once complete the head wall will be cleaned using Virkon aquatic or similar and the steps will be removed.
 - The walkway will be removed, and all equipment and footwear will be prior to entering back onto the hard standing located under the railway structure.
- A storage area for plant, equipment and materials will be located opposite the site access track, adjacent to Mabey Drive. See image for further details.

Environmental mitigation

Please list appropriate mitigation measures to minimise impacts on the marine environment these may include: Pollution prevention and control procedure (guidance available on the NetRegs website) Spill response kits Minimise plant traffic Designated access and egress routes Storage of materials (fuel, chemicals, construction waste) Biosecurity (guidance available at <http://www.snh.gov.uk/docs/A1294630.pdf>)
Note: To assist you, the following mitigation statements will be used as conditions within the licence. By signing this method statement you will be agreeing to adhere to these restrictions. If you are unable to do this, the application will not qualify as Band 1. All equipment, temporary structures, access tracks, waste and/or debris associated with the works will be removed on completion of the works. Bunding, storage facilities and spill kits will be employed to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment. Plant, vehicles and machinery will not be refuelled on the foreshore. Coatings and treatments will be suitable for use in the marine environment and are used in accordance with best environmental practice. All equipment, materials, machinery and PPE used will be in a clean condition prior to their arrival on site, and upon removal from site, to minimise risk of introducing non-native species into the marine environment. In the event of removal of any sensitive species or habitat designated by NRW under Schedule 7 of the Environment (Wales) Act 2016, no further removals will occur at that location or within 20m of that location.

Please list your bespoke mitigations here:

- A spill kit must be on hand in case of an oil leak from machinery, all machinery working in and close to the river will have biodegradable oil.
- Refueling of plant to be done in designated refueling area in the site compound, well away from the river's edge.
- Edge protection will be used to prevent site teams accessing out onto the riverbank when working with the long reach machine.
- Waste transfer checks on regular occasions to ensure the waste is correctly being transferred to the appointed destination.
- Long reach excavator must use biodegradable oil.

COSHH

- Diesel

- Unleaded petrol
- Machine Grease
- Hydraulic Oil
- Spray Paint
- Petrol

Hazard: Contamination of water course / (Chemicals/Oils/dust) entering water course.

Control Measure: Edge protection to be used wherever possible, this edge protection will include a debris netting to avoid particles entering water course. Spill kits to be readily available in each works location (these will be stored in wash down areas) Personnel to be trained in the use of spill kits
Toolbox talk / daily briefings will be given regularly to ensure the control measures are maintained throughout the duration of the project.

Hazard: Plant & Equipment working close water course.

Control Measure: All plant is to use biodegradable oil. Standard of plant is well maintained and preferably new to avoid breakdown in watercourse. Plant and equipment to be removed from water edge at the end of each shift to avoid the risk of flood waters. Works will cease once tidal water levels reach work area locations. Works within the headwall will be subject to tidal flows to which will be monitored by the AGC site teams on a daily basis. All plant must not at any stage enter the watercourse or use any of the plant attachments to enter the watercourse such as buckets etc. Plant and equipment to be washed down with Virkon aquatic or similar before and after use when working within the headwall areas.

Hazard: Night Working (if required) or additional lighting.

Control Measure: Flood lights to be set up facing at an angle away from the river so that wildlife using the river at night will not be disturbed by light pollution etc. There are 2 structures in close proximity of the work areas, all lighting must be angled down and away from the structures soffits and abutments and focused on the work areas only. Noise will be reduced as much as reasonably practicable during the day and night if applicable. Noise blankets on pumps and other plant where applicable will be deployed or the use of electric pumping systems may also be deployed depending on requirements.

Hazard: Water Management.

Control Measure: Water being pumped from excavation or Manhole areas to be removed using a tankers. No plans have been made for pumps at this stage but its likely there may be a requirement for back up pumps. Should any contaminates be seen within water course etc. pumping operations are to stop. All pumps and mechanical equipment to be situated on plant nappies 2 spill kits per pump to be situated away from the riverbank and away from the flood area. As required both contaminated water and ground may be controlled by the pumping operations. At no stage can the pumps be used to pump directly from the river.

Hazard: Spillages.

Control Measure: Spill kits to be installed on every corner of the work areas, on scaffold access platforms and anywhere else deemed at risk. Should AGC incur a spill on the A48 scheme, an independent contractor will be the emergency call out to deal with large volumes. Biodegradable substances where possible, full checks of materials and equipment to be undertaken prior to starting works. All refueling to be undertaken away from the river bank edge and following AGCL refueling policy.

Additional information

Please list any additional information that may help with the application:
Consents/permissions required List of plans or drawings attached to method statement
Emergency procedures Contact details

-Flood Risk Activity Permit (FRAP) Application submitted on the 8th November 2023 reference:
DFR/S/2023/0172

Materials of the project

Description of materials to be deposited seaward of Mean High Water Springs (MHWS)
(Please tick all that apply)

Iron/steel

Silt

Stone/rock

Plastic/synthetics

Delivery method of materials to site

If sea delivery, details of vessels to be used with a chart of proposed route and transshipment area is required. If delivery is by vehicle, the details about the proposed access route are required. Please indicate if you are providing details in a separate file.

Materials will be delivered to site via a van/lorry. They will access site via an access route to the Barratt development, off Mabey Drive.

Will the works involve removals seaward of MHWS?

Yes

Description of materials to be removed seaward of MHWS (Please tick all that apply)

Iron/steel

Silt

Other

Description of objects/materials to be removed seaward of MHWS, including quantities to be removed.

Removal of built up mud and silt that is blocked up in the area between chamber 1 and the headwall. This material will be redistributed along the bank either side, as agreed with NRW via email on 21/08/2023.

Also, if the flap valve requires replacement, it will be removed and replaced with a modern equivalent. Due to its age, the flap valve is assumed to be made of cast iron.

Additional information

Please provide the following:

You must include a suitably scaled extract of an Ordnance Survey Map or Admiralty Chart with location of project complete with north arrow and scale

You must include details of correspondence with MCA, Trinity House and The Crown Estate

You must include any pre application advice/correspondence with NRW

Correspondence with RCAHWW (B1 removals only)

Please upload these below

- File: Harbour Master consultation- Navigation.pdf - [Download](#)
- File: Consutation- Trinity House.pdf - [Download](#)
- File: Crown Estate Consultation.pdf - [Download](#)
- File: NRW Consultation - Sensitive Area.pdf - [Download](#)
- File: Archaeological Consultation.pdf - [Download](#)
- File: NRW mud and silt removal consultation.pdf - [Download](#)
- File: Confirmation of ML required.pdf - [Download](#)
- File: Location of Works.pdf - [Download](#)

Please list below all supporting documents that have been submitted with this application.

- Correspondence with MCA, Trinity House, The Crown Estate, RCAHWW.
- Pre app correspondence with NRW in regards to works being within a sensitive area.
- Confirmation from NRW that mud and silt to be placed along the bankside.
- Confirmation a Marine License would be required for the works.
- Scaled version of Map showing project location.

Statutory powers

Does the applicant have statutory powers to consent any aspect of the project? e.g. coast protection authority, dredging powers, statutory undertakers

No

Public register

Is there any information contained within or provided in support of this application that you consider should NOT be included on the Public Register on the grounds that its disclosure:

	Yes	No
Would be contrary to the interest of National Security?		X
Would prejudice to an unreasonable degree you, or some other person's commercial interest or those of a third party?		X

Application fee

Please provide the method of payment

World pay (please contact the Permit Receipt Centre)

Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and supporting documentation is true.

WARNING: It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information. This could invalidate any licence granted.

Name	Andy Cole
Date	18/12/2023
Position in company	Project Manager/Principal Engineer

If you would like a copy of your completed form, please add your preferred email address below:

a.cole@southwales-tra.gov.uk