

AVONMOUTH SEVERNSIDE ENTERPRISE AREA (ASEA) ECOLOGY MITIGATION AND FLOOD DEFENCE SCHEME

Waste Recovery Permit - Non-Technical Summary

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1 Introduction

1.1 Background

This document has been prepared by BMMJV, a joint venture between BAM Nuttall Ltd and Mott MacDonald Ltd, to accompany and support a bespoke environmental permit application to enable the use of recovered waste on the Avonmouth Severnside Enterprise Area (ASEA) Ecology Mitigation and Flood Defence Scheme, hereafter referred to as ‘the scheme’.

A list of documents included within this application is included in document reference “Form F1 - Section 6 - Application Checklist”. The documents have been compiled in accordance with the requirements laid out in the Environmental Permitting Regulations 2016 and any associated and relevant guidance.

1.2 Overview

The ASEA scheme is a new scheme commissioned by the Environment Agency in partnership with South Gloucestershire Council (SGC) and Bristol City Council (BCC), which are working in partnership to improve coastal flood defences and create wetland habitats in the stretch of the Severn Estuary shoreline from Aust cliffs (ST 52019 76995) to the mouth of the River Avon by the M5 (ST 56585 89776).

The scheme will provide benefit to the local community by improving the height and condition of the existing flood defences and providing better protection against sea level rise due to climate change. In addition, the scheme is required to ensure that economic development can continue within the ASEA without affecting the Severn Estuary protected area, which lies immediately adjacent to the scheme, by providing ecological mitigation in the form of newly created wetland habitat.

Different areas of the scheme have different earthworks requirements including areas with a net cut and others with a net fill. Overall, there is due to be a deficit of material, thus requiring import of suitable material to allow completion of the scheme. It is aimed to apply CL:AIRE’s Definition of Waste Construction Industry Code of Practice (DoWCoP) v2 (2011) to reuse excavated materials sourced from the site in the various developments across the project under a Materials Management Plan (MMP), where possible. However, due to the deficit of material, additional material is also required.

A source of suitable material for the construction of the scheme has been identified at Durnford Quarry, Longwood Lane, Bristol, BS41 9DW, a site managed by Tarmac Limited. The material at Durnford Quarry comprises class 2C stony cohesive materials (reworked mudstone and limestone) that was surplus to requirement for the restoration of the quarry, and is therefore considered a waste. Approximately 80,000m³ waste is available for use.

An area has been identified for stockpiling the imported fill material, located just off the A403 near Aust (grid ref. ST 55799 87565), and is shown in the general arrangement drawings attached to this application. Once stockpiled, the fill materials would be transferred to the deposition location as required.

The waste recovery operation does not qualify for a Standard Rules (SR) permit due to the proposed volumes to recover (80,000m³ rather than the SR limit of 60,000m³) as well as the proximity of watercourses (<10m) and the Severn Estuary (<50m), which holds the following environmental designations:

- Site of Special Scientific Interest (SSSI);
- Special Area of Conservation (SAC);
- Special Protected Area (SPA);
- Ramsar conservation area.

1.3 Permit Requirement

BMMJV is applying for a bespoke permit for a waste recovery operation.

The activities permitted under this environmental permit will comprise the import of inert fill material from Durnford Quarry, and permanent deposition in the flood defences of the ASEA scheme.

1.4 Planning Permission

The wider ASEA scheme has planning permission from SGC under planning reference PT18/2505/R3F.

Stockpiling operations for the waste on a parcel of land adjacent to the scheme (off the A403 at Northwick) are to be completed under a separate application from SGC under planning reference P19/18638/R3F. This allows the recovery from Durnford Quarry to be achieved, with subsequent placement in the scheme being undertaken as required.

1.4.1 Waste Types and Quantities

A maximum of 80,000m³ will be recovered from Durnford Quarry, comprising class 2C stony cohesive materials (reworked mudstone and limestone).

No treatment of the waste is planned or anticipated, as it is classified as inert and will meet the project specification for the permanent works.

Only wastes designated as 17 05 04 under the European Waste Catalogue (EWC) codes (soil and stones other than those mentioned in 17 05 03) will be accepted. This is based on the wastes currently accepted to be recovered under the Standard Rules for 'use of waste in a deposit for recovery operation' (SR2015 No39).

1.5 Management System

The integrated BMMJV Management System and its associated procedures and guidance, are accredited to ISO 14001 and are in accordance with the requirements identified in the Environment Agency Guidance, which has been followed in developing a project-specific management system.

The management system will include:

- Detailed site plans; and
- Details of site operations and relevant procedures including (but not limited to):
 - Site and equipment maintenance plan;
 - Contingency plans;
 - Accident prevention and management plan;
 - Pollution prevention plan;
 - Emissions management plan e.g. dust and other particulates including mud on the highways;
 - Noise and vibration management plan;
 - Site security;
 - Complaints procedure;
 - Managing staff competence and training e.g. site inductions, toolbox talks etc;
 - Record keeping; and
 - Reviewing the management system.

In conjunction with the management system and relevant procedures, the site activities and operations will be managed and operated in accordance with task specific Method Statements to be produced prior to the commencement of works on site.

A summary of the management system can be found in ENVIMSW002194-BMM-XX-Z00-RP-EN-0302139.

1.6 Environmental Risk Assessment

An Environmental Risk Assessment (ERA) (reference: ENVIMSW002194-BMM-XX-Z00-RP-EN-0302138) has been produced for the waste recovery operation. This report updates the project Environmental Risk Assessment (in the Construction Environmental Management Plan¹) with regard to the use of the Durnford Quarry waste, in place of an equivalent non-waste material.

The assessments will work in conjunction with the Environmental Impacts and Aspects Register maintained by BMMJV.

The ERA conforms to the relevant information required within the Environmental Setting and Site Design Report (ESSD) including report context, site details and pathway and receptor.

1.7 Site Condition Report

A Site Condition Report (SCR) (reference: ENVIMSW002194-BMM-XX-Z00-RP-EN-0302136) has been produced to accompany the application in line with the relevant Environment Agency guidance. As per the guidance, sections have been left to complete both during the operational phase and upon permit surrender.

¹ BMMJV. March 2020 Site-wide Construction Environmental Management Plan (CEMP) (document reference: ENVIMSW002194-BMM-XX-Z00-RP-Z-0402040).

The SCR conforms to the relevant information required within the ESSD including report context, site details, site development and site condition report.