ENVIRONMENTAL MANAGEMENT PLAN

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	PRINT NAME	SIGNATURE	POSITION	DATE
AUTHOR	Lewis Smith	[redacted]	Project Manager	28.05.24
CHECKED BY:	Darren Hedges		SHEQ Manager	28.05.24
ACCEPTED BY:				

HEAD OFFICE
11 Flathouse Road, Portsmouth
Hampshire PO1 4QS

Tel 02392 753733
Fax 02392 755189

HEATHROW OFFICE
Room 107-111, Epsom Square
Eastern Business Park TW6 2BJ

Tel 02392 753733
Fax 02392 755189

www.hughesandsalvidge.co.uk

ISSUE HISTORY			
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002	April 2024	Lewis Smith	N/A –First Issue
002	April 2024	Lily Timney	Addressed comments
003	May 2024	Lewis Smith	Addressed EA/PW Comments

All revisions to the Environmental Management Plan will be recorded on this page.

The author of the amendment(s), or other authorised person, must explain the details of the amendment (s) to the Site Manager/Site Supervisor. The author must ensure that the Site Manager/Site Supervisor signs off the amendment to confirm that he has received and understood it, and that the Site Manager/Site Supervisor returns the signed off front page so that the author can file it in the project office file.

The Site Manager/Site Supervisor must sign off and return the copy of this Amendment page, as explained above, and carefully insert this page and the amendments into the project site file. He must also clearly line through the existing pages to indicate they have been superseded.

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SECTION 1 - INTRODUCTION

Hughes & Salvidge Ltd have been appointed for the role of Principal Contractor for demolition works at Bulbeck Road Car Park, Havant.

The EMP includes full details of:

- Roles and responsibilities;
- Communication and co-ordination;
- Training and awareness;
- Operational control;
- Checking and corrective action;
- Environmental control measures.

SECTION 2 - ROLES AND RESPONSIBILITIES

The Project Manager would have overall responsibility for the project and will be responsible for the development and implementation of the EMP. Other members of the project team would also be assigned specific roles and would be responsible for the correct application of the EMP. Individual specialists may also be appointed to provide expert advice. Suggested specific roles are described below:

Project Manager

The Project manager would have overall responsibility for environmental performance throughout the demolition phase and would ensure that appropriate resources are made available and environmental control and any agreed or appropriate protection measures are implemented.

- Monitor construction activities and performance to ensure compliance with the EMP and that identified and appropriate control measures are being effective; and,
- Act as a main point of contact between the regulatory authorities (if required), Client and the project on environmental issues.

Site Manager

A full-time site manager would be responsible for recording the progress of the Environmental Works. The Site Manager would carry out the following duties:

- Support the Project Manager in delivering the environmental component of the project;
- Monitor Demolition activities and performance to ensure control measures are effective;
- Maintain full records of the progress of the Environmental Works;
- Implement an auditable environment record filing system;
- Carry out audits as required by the EMP.
- Ensure compliance with Duty of Care at all times;
- Implement and monitor measures to ensure correct waste minimisation, segregation and disposal;

SECTION 3 - COMMUNICATIONS AND CO-ORDINATION

Co-ordination within the project would be achieved through periodic meetings attended by representatives from the Demolition team and client.

The meetings would consider past performance –from the results of inspections, environmental monitoring, and any complaints - and would look ahead to plan actions required to prevent or mitigate forthcoming risks and disseminate best practice.

SECTION 4 - TRAINING AND AWARENESS

All staff and operatives will receive a site-specific environmental briefing as part of their site induction.

Supervisors would support information provided at induction by completing briefings and 'toolbox talks' before specific activities commenced. During the different stages of the project, the variety of environmental risks can alter therefore, the site introduction and toolbox talks can be altered to meet the environmental risks.

A record of all site introductions and toolbox talks will be signed by all who attended and kept in the site office. At a minimum toolbox talks will be held weekly ranging in all Environmental, Safety and Health (ESH).

SECTION 5 - OPERATIONAL CONTROLS

All activities on site would be reviewed against the requirements of the EMP via an integrated risk assessment. Please see environmental risk assessment in separate document. The demolition teams would review the environmental risks associated with the demolition process and appropriate control measures.

SECTION 6 - CHECKING AND CORRECTIVE ACTION

The demolition team would carry out day to day monitoring of demolition activities and maintain a record on site. The results of these inspections would be discussed at the Fortnightly Progress Meeting.

Regular audits would be completed to verify that the Project is compliant with the established EMP, contractual requirements and legislation. This project would also fall within our ISO14001 Registration and as such would receive regular independent audits by the Certification body.

SECTION 7 - ENVIRONMENTAL CONTROL MEASURES

7.1 Noise and Vibration Management

Predicted noise levels, based on the requirements of BS5228, have been calculated for Demolition activities associated with the works.

Equipment	Weighted Sound pressure level at 10m (db)
Pulverizer mounted on excavator	72
Breaking and spreading rubble	82
Shearing Steel	82
Clearing Site	77
Loading Lorries	79
Mobile Telescopic Crane (100t)	71
Diesel Scissor Lift	78
Road Sweeper	76
Skip Wagon	78
Diesel Generator	59
Lorry Movements on Access Road	83

To reduce the potential of nuisance being caused by Demolition activities, Hughes and Salvidge would introduce control measures when developing methods of work and communicate with neighbours if and when noisy works are to be carried out.
Strict controls on the sequencing of works and providing noise protection would be developed on an activity-by-activity basis.
The adoption of Best Practicable Means, as defined in the Control of Pollution Act 1974 is usually the most effective means of controlling noise from construction sites. In addition, the following measures should be considered, where appropriate:

On site noise levels would be monitored regularly, particularly when changes in process are required or in response to complaints. The monitoring would be in accordance with the guidance set out in Annex E of BS5228: Part 1:1997.

All pneumatic tools would be fitted with silencers or mufflers.

Deliveries would be programmed to arrive during daytime hours only. Care would be taken when unloading vehicles to minimise noise. Delivery vehicles would be routed so as to minimise disturbance to local residents. Delivery vehicles would be prohibited from waiting within the site with their engines running.

All plant items would be properly maintained and operated according to manufacturer's recommendations in such a manner as to avoid causing excessive noise. All plant would be sited so that the noise impact at nearby noise sensitive properties is minimised.

Example of record sheet shown below:

HSF 25

Noise Survey Readings				
INSTRUMENTS:	CIRRUS CR:162A NOISE LEVEL METER			
SERIAL NUMBER:	G056440			
CALIBRATION CERT. NUMBER:	264561			
NEXT CALIBRATION:	16 OCT 2019			
SITE ADDRESS:	SABIC North Tees		Tank Farm & Riverside	
WEATHER CONDITIONS:				
DATE OF READINGS:		WHO BY:		
TOR Area & Pipework (Refer to location indicated on the Plot Plan)	READING dB(A) L_{eq}	TIME 30 Second Interval	NOTES Activities providing noise sources	
AREA 1		to		
AREA 2		to		
AREA 3		to		
AREA 4		to		
AREA 1		to		
AREA 2		to		
AREA 3		to		
AREA 4		to		
AREA 1		to		
AREA 2		to		
AREA 3		to		
AREA 4		to		
AREA 1		to		
AREA 2		to		
AREA 3		to		
AREA 4		to		

Health & Safety Form

Issue No.1
Jan 13

7.2 Dust and Air Quality

Keeping dust levels to a minimum is essential throughout the works; Dust suppression will be required throughout. Particular care is required to maintain dust emissions at the site boundary adjacent to neighbouring properties.

A monitoring regime is to be adopted throughout the works to regularly check that levels are dust are being kept to a minimum.

The use of Best Practicable Means (BPM) (as defined in Part III of the Environmental Protection Act 1990) would be employed, examples of which are given below:

- Sheeting of vehicles transporting materials to and from the site;
- Limiting the speed of site vehicles to 10mph
- Leaving suitable hardstanding's in place until end of the project to mitigate dust release during vehicle movements

- Placing plant as far as possible from sensitive areas and switching engines off when not in use;
- Provision of wheel washing facilities and/or regular use of road sweepers at access points and on local roads (to remove mud from public highways);
- Damping down of haul roads;

Dust Monitoring Record			
SITE ADDRESS:	SABIC North Tees	Tank Farm & Riverside	
WEATHER CONDITIONS:			
DATE OF READINGS:	/ /	WHO BY:	
TOR Area & Pipework (Refer to location indicated on the Plot Plan)	VISUAL CHECK	TIME	NOTES – ACTION TAKEN IF REQUIRED
		to	
		to	
		to	
		to	
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		to	

7.3 Water Pollution

The monitoring of water (Surface water discharges) would be site specific though the hierarchy of Pollution Prevention i.e. containment, reduction of water uses and discharges off site etc. needs to sit at the top of processes on site. Monitoring includes a watching brief, regular inspections of surface water on site and potential runoff to receptors needs to be included. Identification of silt laden or other contaminated water that could discharge off site needs to be dealt with first. If discharges do occur, then appropriate pollution prevention devices such as silt busters etc. could be employed.

Further PPGs can be found using the link below.

[ARCHIVED CONTENT] Environment Agency - Pollution prevention advice and guidance (PPG) (nationalarchives.gov.uk)

Other sources of information are as follows:

GPP 1 General guide to the prevention of pollution

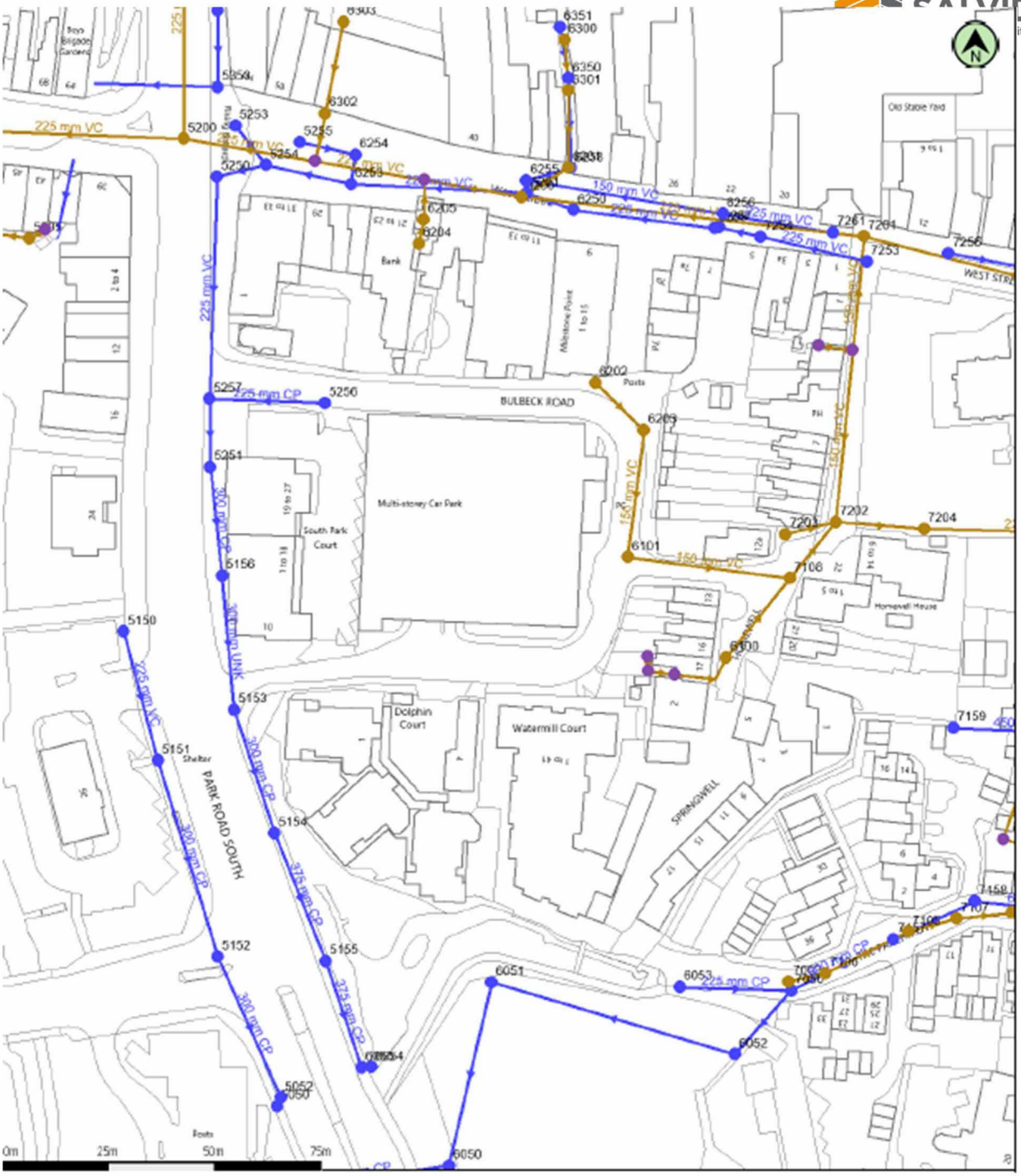
GPP 21 Pollution incident response planning

Pollution incident response plans | NetRegs | Environmental guidance for your business in Northern Ireland & Scotland

A watching brief and regular inspections of any watercourse/surface water on and in the immediate vicinity of the site should be observed during any works. Evidence of notable impacts to the surface water should be highlighted to the relevant authorities, including the Environment Agency.

Suitable protection for watercourses potentially affected by the works would be installed prior to relevant works proceeding. These measures would be in-line with Environment Agency Pollution Prevention Guidelines version 1.2 June 2021, sections 2, 4, 5 and 6.

Below is an image of the drainage plan for the project, here you can see all the watercourse entrances which could be perceptible to being polluted. The drainage plan can be included in the site introduction so all staff are aware of the environmental risks in addition to this, the drainage plan will be displayed in a public area were all on site can check the watercourse locations.



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Scale: 1:1250

Date: 21/11/22

Wastewater Plan A4

Data updated: 27/10/22

Map Centre: 471642,106191

Our Ref: 1009530 - 4

Powered by digdat

mail@groundwise.com

32249

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2022 Ordnance Survey 100031673 .This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

Protection measures would be developed and would include:

Washing equipment wheels will be located 10m away from any water courses to avoid water runoff. All Drains and other watercourses will have appropriate measures to stop water runoff such as witches hat.

If there were to be any substances going down a foul drain there would be filters attached and be changed when appropriate, the PH levels for this drain will be checked regularly with a competent individual. In addition to this, before any work begins permission from the local authority will have to be granted.

Bunded storage areas, located in main compounds, would be provided for the duration of the demolition period for the storage of oils, fuels, chemicals and other hazardous construction materials. Local storage of these materials would also be within bunded facilities. Additional prevention controls such as bunds, drip trays, overflow pipes and bund drainage systems will all be daily inspected visually and if any additional and replacements of controls will be undertaken.

Plant and equipment would be stored in areas that being less susceptible to possible pollution incidents, or on dedicated hard standing. The plant will also be refuelled in these areas. All fuel and plant hoes will be either provided with nappies or stored within the bund when not in use, to prevent pollution.

Maintenance pads and sandbags will be used across drains to filter any water that may run down the drains. The pads are to have a visual inspection daily and be replaced as required.

All fuel bowsers will be equipped with spill kits. Spill kits will be checked regularly to make sure they are fully stocked in case of a spill, this will be conducted by a competent individual. Below is an example of a spill kit checklist, all records will kept on site. On the site introduction all operatives will be briefed on how to respond if an oil or fuel spill were to happen or be noticed. Topics such as reminders on how to use a spill kit and what to do in a situation will be covered in regular toolbox talks.

Spill Kit Stock Check

Inspected by	
Signed	
Inspection Date	
Site	
Spill Kit Number	

Item	Quantity		Status Condition
	Should contain	Contained	
Containment Drum	1		
Granule (Bagged)	1		
Padded Broom Socks	6		
Absorbent Pads	25		
Waste deposal Bags	10		
Gloves (Nitrile)	2		
Glasses	1		
Paper Suit	1		

7.4 Biodiversity

Appropriate regard for the protection of local habitats and protected species during the demolition works.

- All demolition works would be undertaken outside bird nesting season where possible however alternative measures would be taken to prevent birds nesting within the demolition phases between March and August. An ecologist would be required to attend site to verify the structure being free from nesting birds

- In areas that are considered to have potential for bat roosts an ecologist should conduct a watching brief for those structures that are scheduled for demolition should be examined before any work is conducted. Prior to any works that could affect the buildings containing a confirmed bat roost a license should be obtained from Natural England

- An ecologist would carry out a survey immediately prior to site clearance works in order to ensure that there are no protected species present. In the event of protected species being found, works would be delayed until mitigation measures have been agreed with English Nature;

- Protection would be provided to create physical separation between demolition operations and ecologically sensitive areas where necessary.

7.5 Waste Management

Waste management will be controlled throughout the demolition works and will be recorded daily.
Only approved waste carriers and approved waste facilities will be used and records of their licenses will be held on site. At the start of the project a SWMP will be produced to estimate the arising material produced during the works. This will then be completed with the actual at the end of the project for comparison and an overall recycling percentage will be shown. Hughes and Salvidge aim for a 90-95% recycling rate.

How to improve waste management on site:

- Storing and reusing demolition materials to negate the export or import of inert materials.
- Reduction of site generated waste through waste minimisation and re-cycling initiatives, Including the source-segregation of re-usable and recyclable materials.
- Appropriate methods of waste disposal linked to a robust waste disposal audit trail.
- Site office wastes would be collected in separate containers to maximise the opportunities for recycling, this would include: Can, bottle, and paper banks;

In the event of discovering ground contamination or material which has been unidentified during the demolition the substance will be either be segregated or left undisturbed as found. A sample will be taken and sent off for testing to evaluate the properties of the substance. On evaluation of the test results appropriate waste route will be selected. All operatives will be instructed in an site instruction on the procedure in an event such as this and will be advised to inform their site supivisor immediately.

7.6 Traffic Management

Access/egress to the site is shown is within the traffic management plan. Vehicle speed limits of 10 mph will also be in place on site.

Local transport companies will be used to minimise the carbon emissions on the project.

7.7 Environmental aspects and impacts

Hughes and Salvidge has prepared environmental procedures and guidance, and expect both site personal including sub-contractors to comply with the company environmental plan.

Activities that have an environmental impact are as follows but not restricted to:

- Drains and water run off
- Dust
- Noise
- Fuelling close to water ways
- Invasive plants (Japanese Knotweed)

Prior to any works being carried out on site an environmental plan will be in place and where necessary the local authorities will be informed (Section 60). Risk assessments and safe systems of work will be in produced for all hazards raised to prevent pollution to the environment and disturbing neighbours and will include containment and recovery.

Incident response

- In an environmental emergency operatives should inform their site manager who will contact the environmental agency.
- All operatives will have immediate contact with either a site supervisor, manager or any other senior staff while on-site at all times through mobile phones or walkie-talkies.
- The site drainage plan and map will show all locations of project drains, storage areas and refuelling areas
- Areas of environmental sensitivities

Environmental Agency's incident hotline: 0800807060

SECTION 8 - SIGN OFF SHEET

I confirm I have read and understood this Environmental Management Plan and that I must not deviate from the information containing within.

Name	Date	Signature