



Small Works Site Specific SHEQ Management Plan

**Note: for use on non-notifiable projects where the project will not exceed:
a)20 people working simultaneously b)500 person days of construction work.**

Site specific plan no. 1234

Sub-project name: **Trebanos WWTW Outfall Site Clearance**

Sub-project number (if available): **1W7000-Z4**

Section 1 Description of the project

1.1 Client details	
Name and address: Welsh Water Ty Awen Spooner Close Celtic Springs Business Park Coedkernew, Newport NP10 8FZ	Contact name and number: Adam Bush Dŵr Cymru Welsh Water Project Manager - Wastewater Infrastructure 07920812715
1.2 Contractor's details	
Name and address: Morgan Sindall plc Ty Awen Spooner Close Celtic Springs Business Park Coedkernew, Newport NP10 8FZ	Contact name and number: Sean Murray – Snr Contracts Manager 07713 790392 Mark Thomas – Project Manager 07812 961884
1.3 Name of Contractors involved in the works with whom Morgan Sindall plc will need to co-ordinate with for the purpose of health and safety:	
Name and address of contractors: Clearsafe Knotweed, 49 Gwyn St, Alltwen. SA8 3AL Whitland Engineering, West Street, Whitland, Carmarthenshire. SA34 0AE	Contact name and number: James Edwards Director and Lead Surveyor Clearsafe Knotweed Tel: 07584535202 Email: info@clearsafepartners.co.uk James Lewis Company director Whitland engineering Tel: 01994 240442 Email: Info@whitlandengineering.co.uk

Construction and

Socotec Ltd Unit 15, Crosby Yard, Wild Mill, Bridgend. CF31 1JZ Bryndulis Scaffold Ltd Ynysgerwyn Depot, Aberdulais Neath. SA10 8HN	Niall Kiernan Project manager Socotec Ltd Niall.Kiernan@socotec.co.uk 01656 646588 Rhys Jones Company director Bryndulis Scaffolding Ltd rhys@bryndulisscaffolding.com 01639 700220
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1.4 Designer's details

Name and address: ARUP 13 Fitzroy Street London W1T 4BQ	Contact name and number: Tel +44 20 7636 1531 www.arup.com Barbara Modrzejewska-Baudin Associate Water t: +44 29 2026 6588 m: 073 9208 2397
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1.5 Drawings:

The scope of work below should be read in conjunction with the following drawings :

- B16421-103503-01-ZZ-DR-CA-C15050 P02 Pipe Network Final Effluent to Outfall Plan Profile

1.6 Brief description of the Works:

The works comprise the construction of a concrete outfall up stream of the existing outfall. New Pipeline from existing storm settlement tank, new manholes and new flow diversion chamber.

For all construction of the outfall and associated pipework, manholes, distribution, and new flow diversion chamber., two phase of site clearance will be required:

Waste Materials

Disposal of 2 stockpiles:

- Area 1 – DCWW old workings and parts
- Area 2 – Old building materials, pipes, old electrical equipment, and mattresses

Herbicide Spraying

- Herbicide application of infested areas this November. TBC if required by Clearsafe
- Small paths to be cut to access JK strands by foot.
- Isolated treatment of JK areas keeping 10m from watercourse.

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- Biosecurity measures (brushing/washing of boots, equipment etc) need to be implemented by Clearsafe to ensure we don't further spread the INNS.

Small bund

- Clear vegetation, knot weed and trees, cleared under NLMS which would include Apem ECoW watching brief.
- Trees to back of bund within farm field will need clearance.

Outfall clearance (cleared under NLMS this winter)

- Apem to have NLMS in place prior to works proceeding.
- Vegetation Clearance approx. 20m long from farm fence line to river bank edge.
- Removal of bund
- 3 No small tree to be removed

Tree Trimming

- Tree trimming to allow large vehicles to pass along access road to site

Outfall clearance

- Vegetation Clearance approx. 20m long from farm fence line to riverbank edge.
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Site Access Widening (Rugby club area)

- Areas of Knot Weed to be cleared without an ecologist watching brief.
- Removal of bund to rear of car park, requires Apem ECoW watching brief.
- The 3 trees along the track require clearance.

1.7 Programme for the works

Phase 1 Site Clearance

- Herbicide Spraying – TBC
- Waste Material Disposal – January 2024
- Small bund vegetation clearance – January / February 2024
- Tree Trimming – February 2024
- Outfall Clearance – February 2024
- Small Bund Removal – February 2024
- Site Access Widening (Rugby club area) – February 2024

Phase 2 Installation of Headwall/Outfall works, Pipelines & Manholes

- Site setup/preliminary – June 2024
- Headwall/outfall July 2024
- Pipeline and manholes phase 1 – August 2024
- MH06 installation – August 2024
- MH05 installation – September 2024
- Outfall chamber and pipeline – June/July 2024
- MH4 Installation – July 2024
- MH3 Installation – July 2024
- Flowmeter Chamber – July 2024
- MH2 Installation – August 2024
- MH1 Installation – August / September 2024
- Demobilisation – October 2024

1.8 Location of the works

Construction and

WITHIN TREBANOS WWTW, OFF SWANSEA ROAD, TREBANOS, PONTARDAWE,
SWANSEA, WALES, SA8 4BR
Access from B4603 Swansea Road Via Colliers Arms

1.9 Access to the site:

Access to the site is off the B4603 Swansea Road Via Colliers Arms and then follow the route past the rugby field to the working area shown highlighted in Figure 1.

All site vehicles/plant will abide by a 5-mph speed limit on entering, exiting and whilst within the working area.

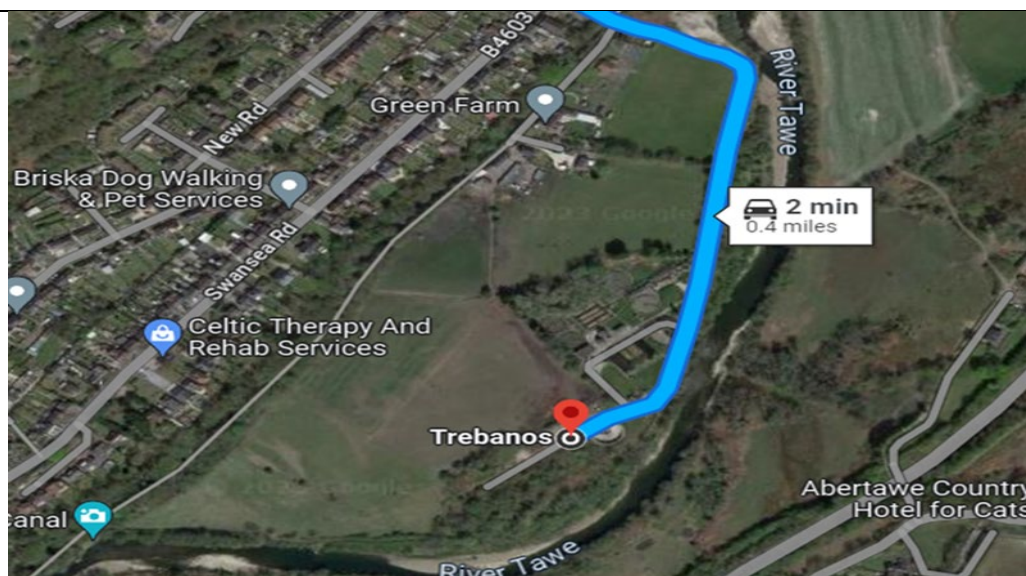


Figure 1: The main development works is located to the top end of Trebanos WwTW, which again accessed from Swansea Road down a single road past the rugby field to WwTW entrance gates.

1.10 Security on site

Secured WWTW sites, maintain site rules.

CCTV systems installed within site compound.

1.11 Other information

Welfare will consist of a stand-alone welfare unit for sub-contractors

Access is only permitted through the access gate with an DCWW authorised ID card.

Hours of work: 07:30 – 17:30

Applicable Morgan Sindall procedures e.g. confined space

Construction and

All Morgan Sindall procedures apply to the scheme, but in particular:

Permit to Dig
Isolations
Confined Space
Lift Plans
Hot works
Permit to load
Permit to pump

Construction and

2.0 Hazard and Risk Information

Hazard / Risk	Is Hazard / Risk Present? Yes / No Make reference to site documentation	Control Measure Requirements
Interface with public and third parties	Yes	Suitable segregation present. Banksman. Restricted area. Access to private land to be agreed via DCWW estates
Location	Yes	Adhere to site rules, DCWW induction, be aware of operatives on live site, no go areas. Barriers. PPE. Access across private land to be protected by track matting. When working in private land ensure suitable segregation from livestock.
Traffic Management	Yes	Maintain good communication with DCWW, do not block main access, banksman for offloading, appropriate signage where necessary. PROW Pedestrian/Cycle track at entrance of works of which vehicles are to be managed when accessing and be made aware of within induction.
Use of plant and equipment	Yes	Undertake work as described in trial hole RAMS. Banksman in place at ALL times as well as adequate segregation.
Site congestion	Yes	Multiple gangs to be made aware of ongoing works, maintain good comms, PPE, RAMS, banksman.
Confined space	Yes	A specific Risk Assessment will be produced for confined space working. All operatives will have received confined space training. Permits will be issued daily by the appointed person and a designated supervisor/topman will be appointed to oversee the works
Hazardous materials or substances	Yes	Potential for made ground and diesel usage avoid direct contact and avoid ingestion. PPE.
Dust & Fumes from task operations	Yes	Dust masks, damping down of work area, use of water bottle suppressant. PPE.
Working at height	Yes	Suitable segregation of excavation works with barriers.
Noise	Yes	Work hours of 8:00 – 17:30. Low noise generating plant, PPE.
Manual handling	Yes	Operatives to be trained in manual handling, avoid lifting where possible.
Permits & other safety directives required	Yes	Permits to be issued by Morgan Sindall appointed person prior to commencement of works.
COSHH	Yes	COSHH assessments, suitable containers, spill kits.
UG/OH services	Yes	Up to date service plans onsite, CAT and Genny, permit to dig, RAMS, GPR scan prior to breaking ground.

Construction and

Ecology	Yes	Apem to be on site to undertake surveys of dormice on small bund under NLMS. Specialist Invasive species contractor managing removal/moving of invasive materials.
Geology/hydrogeology/hydrology	Yes	Soft ground conditions, relatively shallow water level/ artesian risk, bunds to be in place, bentonite available, ground protection, monitor, PPE.
Any other significant risk: - Slips, trips and falls. - Working over or near water	Yes	- Good housekeeping, training, instruction and supervision. PPE. - Specific rescue plan to be put in place, all operatives to receive training working over water.
Project Manager (Name): Mark Thomas		Signature: 
		Date: 9/1/2024

UG Service Review:

Excavation	Services	Risk (High, Medium, Low)	Utility Companies Consulted	Additional Control Measures
Small Bund	Existing final effluent pipe	Medium	DCWW	Permit to dig, hand tools within 500mm, RAMS, CAT and Genny, CCTV + sonde and peg out
Trebanos Rugby Club Car Park	Overhead cables, Clean Water Feed to works Main Sewerage to works and CSO	High	DCWW Waste and Clean National Grid	Permit to dig, hand tools within 500mm, RAMS, CAT and Genny, CCTV + sonde and peg out
Pipe trench	Overhead cables, Clean Water Feed to works Main Sewerage to works and CSO	High	DCWW Waste and Clean National Grid	Permit to dig, hand tools within 500mm, RAMS, CAT and Genny, CCTV + sonde and peg out
Deep excavations for manholes through temporary works systems i.e. cofferdams / manhole boxes	Overhead cables, Clean Water Feed to works Main Sewerage to works and CSO	High	DCWW Waste and Clean National Grid	Permit to dig, hand tools within 500mm, RAMS, CAT and Genny, CCTV + sonde and peg out

Construction and

3.0 Site Controls**3.1 Principal Contractor's Method Statement c/w relevant Risk Assessments**

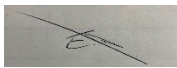
TS 4426 – Trebanos WwTW Filling 40 yards skips with 14T Excavator
 RAMS No 6273 - Morgan Sindall Site Setup
 RAMS No TBC - Morgan Sindall Pipelines and manholes
 RAMS No TBC - Morgan Sindall Headwall installation
 TS TBC – Outfall Chamber

3.2 Contractor's Method Statement c/w relevant Risk Assessments

RAMS No 6055 – Clearsafe_Knot weed, Himalayan Balsam and Vegetation Management
 RAMS No TBC – Whitland Engineering M&E Installation
 RAMS No TBC – Bryndulis Scaffolding installation
 RAMS No TBC – Soctec

3.3 Acceptance and Authority to Commence Construction

Prepared by:

Name: Ed Williams Signed:  Date: 22.05.24

Authorisation to Commence Construction by Snr Contracts Manager

Name: Mark Thomas Signed:  Date:

Construction and

3.4 Emergency Procedure

Fatality / Major Injury / Dangerous Occurrence				
Appointed Person Title		Action		Appointed Person Name
First Aiders		Provide First Aid		Ed Williams Justin Owens
Site Foreman/Supervisor		Notify Emergency Services Notify Incident Co-ordinator		Huw Williams Ed Williams Justin Owens
Incident Co-ordinator		Do not move the person unless absolutely necessary Do not interfere with the scene of the incident Notify the PC Site Manager, SHE Adviser, Project Manager immediately Meet The Emergency Services		Huw Williams Ed Williams
Head of Safety		Notify HSE		Andy Howard
Framework Director		Notify Capital Manager Shaun O'Leary, DCWW Complete Restart Check		David Stacey
Snr Contracts Manager		Stand Down Incident		Sean Murray

Principal Contractor	Morgan Sindall	
Framework Director	David Stacey	(M) 07583 149980
Head of Safety	Andy Howard	(M) 07831 436832
H&S Adviser	Michael Sellers	(M) 07812 961740
Environmental Advisor	Abi Clifford	(M) 07773 939 353
Senior Contracts Manager	Sean Murray	(M) 07713 790392
Project Manager	Mark Thomas	(M) 07812 961884
Site Agent	Huw Williams	(M) 07973 781524
Senior General Foreman	Justin Owens	(M) 07772 996340
Section Engineer	Ed Williams	(M) 07890 425480
Engineer	TBC	

Construction and

3.5 Nearest Hospital (A&E 24hrs)**Morrison Hospital****Address:**

Heol Maes Eglwys,
Morrison,
Cwmrhydyceirw, Swansea SA6 6NL

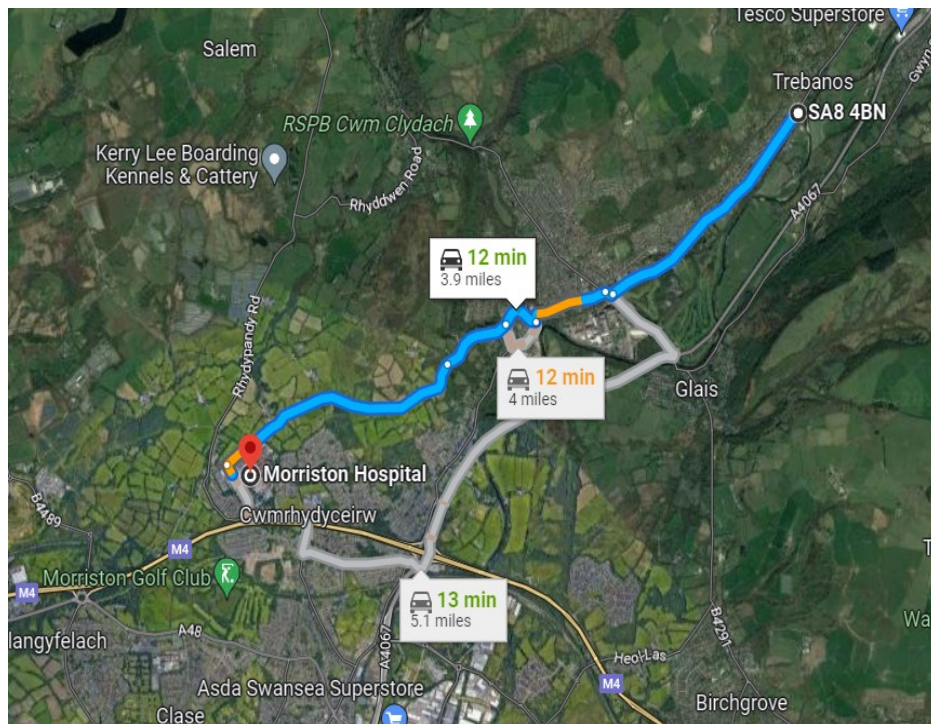
Hours:

Open 24 hours

Emergency department: Open 24 hours

Phone: [01792 702222](tel:01792702222)

	via B4603 and Mynydd Gelli Wastad Rd	12 min 3.9 miles
	Fastest route now due to traffic conditions	
	Details	
	via Ffordd Cwm Tawe/A4067	13 min 5.1 miles
	via B4603	14 min 4.4 miles



Construction and

Site Induction

Presenter's note:

This document is a sample checklist and may need altering to cover specific risks or climatic conditions. Items coloured red should be altered to suit the specific project induction.

Project: Trebanos WWTW Outfall Site Clearance Works

1 Brief overview of the Works

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Phase1:

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Phase 2:**Site setup – Preliminary**

- A segregated area will be agreed to set up site compound for the main works
- Installation of hoarding/barriers to demarcate the area
- Delivery of temporary welfare accommodation prior to receiving the main welfare units
- Knot weed clearance of area prior to removing bunds
- Create a hard standing area for the main compound
- Receive delivery of welfare units and set up service connections i.e. power, waste and water.
- Receive delivery of site diesel generator to provide the mains power for site set up.
- Morgan Sindall electrical engineers to visit site to establish power feed connections and fully commission power supply.

Headwall/Outfall works

- Reduce area to ramp into outfall and ramp into river for piling platform installation.
- Install temporary mitigation into river – scaffold.
- Delivery diesel pumps, settlement tanks and silt buster for over pumping
- Remove boulders and bank protection.
- Install sheet piles into riverbed to create working area.
- Install 6 QTY 500mm piles and UC's in headwall location.
- Reduce pile height to 1mon piling platform.
- Install type 1 formation and apply blinding.
- Fix re-enforcement and pour base slab.
- Install pre-cast concrete planks between UC's and apply sealant.
- Cast insitu concrete corner pieces.
- Back fill around headwall
- Replace boulders either side of headwall
- Install concrete steps into bank for access
- Install new timber post and rail and gate to headwall access
- Install flap valve and safety grill and hand railig

Pipelines & manholes phase 1

- Install pipe 10 – 900mm DI x 6m length x 2.4m depth
- Installation of MH6 (1.8m dia x 2.4m depth) including temporary works, benching and pipe connections
- Installation of MH05 (1.8m dia x 2.4m depth) including temporary works benching and pie connections

Construction and

Outfall Chamber / pipelines & manholes phase 2

- Install Pipe 6 – 600mm Ridgi sewer x 6m length x 2m depth
- Installation of MH04 (1.5m dia x 2m depth) including temporary works, benching and pipe connections.
- Installation of MH3 (1.5m dia x 1.6m depth) including temporary works, benching and pipe connections.
- Install pipe 4 – 600mm DI x 6m length x 1.5m depth
- Installation of flowmeter chamber (2.4m dia x 2.6m depth) including temporary works, benching, pipe connections and kinked pipework and spool piece.
- Install pipe 3 – 600mm DI x 15m length x 1.7m depth
- Install MH2 (1.5m dia x 1.7m depth) including temporary works, benching and pipe connections.
- Install pipe 2 600mm ridgi sewer x 6m length x 1.7m depth
- Install MH1 (2.1m dia x 1.9m depth) including temporary works, benching and pipe connections.
- Remove over pumping and off hire all equipment.

De-mobilization

- Remove outfall hard standing area and reinstate
- Remove access haul road and reinstate
- Remove site hoarding and install post rail fence adjacent to private field
- Off hire and remove welfare cabins
- Rotavate and seed field - grass cut every 3 months, anticipated finish date summer 2025
- Reinstate bund / outfall with planting and shrubs

2 The site rules are as follows:

- a) There is a mandatory PPE requirement of hard hat, safety boots, hi vis vest / jacket; gloves and eye protection.
- b) You must be aware of and comply with risk assessments and method statements at all times. Any subsequent changes will be notified.
- c) Follow all safety signs, warnings and instructions.
- d) Look after your own safety and that of others around you.
- e) Do not cross barriers or enter restricted areas unless authorised to do so.
- f) All ladders are to be tied and have a current ladder tag in place.
- g) Only certified scaffolders are to erect, alter and inspect scaffolding.
- h) Plant ops are to be trained and certified.
- i) Inform your supervisor if you think anything is unsafe – do not leave others to do so.

Construction and

- j) Report all accidents – seek first aid – report all near misses.
 - k) Keep all work areas clean including canteen – use waste bins provided.
 - l) Follow all COSHH procedures for the use of hazardous materials.
 - m) Keep trailing cables tidy and to one side of walkways.
 - n) Keep all emergency routes clear and familiarise yourself with them.
 - o) No alcohol or drugs are allowed on site or anybody under their influence – you may be required to present yourself for testing.
 - p) All holes in floors are to be protected – only authorised persons to remove this protection.
 - q) Permit to work system is in operation.
 - r) No waste or pollutants are to be poured into any new or existing sewers.
 - s) Only trained operatives are to enter confined spaces with a valid permit to work.
- 3 It is essential that everyone knows who is in charge of safety matters on site at any time. The Site Agent has overall control but is not often on site. Therefore for safety matters the responsibility will be that of the Works Manager.
- If he / she is not present then it is the Foreman;
If he / she is not present then it is the Senior Engineer;
If he / she is not present then it is the Engineer;
If he / she is not present then it is the Ganger.
- 4 The full requirement for emergency procedures can be seen in the welfare unit,

Intermittent blast on an air horn is our emergency signal
- 5 Welfare and first aid facilities will be available in the welfare unit which will be situated on site.
- 6 There are several site specific hazards which are:
- ❖ Working in live WWTW
 - ❖ Knotweed treatment
 - ❖ INNS vegetation clearance
 - ❖ Ground and groundwater conditions, soft ground/ contaminated
 - ❖ Flood risk, shallow groundwater/ surface flows
 - ❖ Ecology, bats, Dormice, River
 - ❖ Plant Movements
 - ❖ Deep Excavations
 - ❖ Overhead and underground services
 - ❖ Working in private land – Segregation from Livestock
 - ❖ Working over or near water
 - ❖ Lifting activities
 - ❖ COSHH
 - ❖ Working around or in close proximity to live services
 - ❖ 3rd party contractors
 - ❖ Members of the public

One particular hazard is Weils disease caused by rat's urine which can be spread by splashing. Make sure that you wash your hands regularly.

Construction and

- 7 A permit to excavate must be issued for all excavation works carried out on site.
- 8 You must be aware of the presence of local residents / children within and around the working areas at all times.
- 9 There are also several environmental issues, these are; working in close proximity to the local community, hence noise, dust, spillages, deliveries to site etc. to be controlled at all times.
- 10 Site hours are from 08:00 – 17:30
- 11 You should carry out your work in a responsible and professional manner at all times as you are not only representing Morgan Sindall, you also represent Welsh Water.
- 12 If you have a medical condition – for example epilepsy - which you consider Morgan Sindall need to be aware of would you please let me know immediately following this induction.

Does anyone have any questions?

Record of Task Safety Training (MS, RA, TSTs, TBTs and other safety briefings)

Form ref: F S1 053 Rev D

Attendees <u>MUST</u> sign the form below in order to confirm that they acknowledge and understand the training/briefing they have received						
Site:		Name of trainer: (Use name of Supervisor)			Date:	
Topic –					Duration:	
MS ref		RA ref		TST/TBT ☐	Other e.g. Environment	
Learning objectives: following the training the candidates will be able to:						
1) Describe the content of MS, RA, TST or Other hazards				2) State the risks associated 3) Identify the hazards		
				Tick the appropriate box		
Name of Trainee		Signature		Name of Employer	Sub Contractor	Labour Only Sub Contract
				Subtotal Hours		
Note: All MS, RA, TSTs, TBTs and other safety briefings shall take a minimum of 15 minutes and shall be recorded above						
Title:		Signed:				Total Hours