Overall Project / Contract Risk Assessment

Contract:	PAT – NMGH - TROH	**Reference:**	
Prepared By:	Wayne Frankland	**Date:**	24/01/2019

Contract - Location Specific Hazards:

The following items have been noted in connection with this contract at the above referenced location. The list is not exhaustive and the contract is required to ensure everyone involved with the contract is familiar with all aspects of the contract and that these are addressed though Contract Specific Risk Assessment and Method Statements.

Location Specific Hazards:	Known	Anticipated	Not anticipated
Overhead Services.	✓		
Above Ground Services	✓		
Above Ground Services– High Pressure (Major Accident Hazard)			✓
Underground Services – Gas.	✓		
Underground Services – Electricity.	✓		
Underground Services – Water.	✓		
Underground Services – Telecommunications.	✓		
Underground Services – Sewers.	✓		
Underground Services – High Pressure (Major Accident Hazard)			✓
Underground Services – Signalling systems			✓
Underground Services – Other.		✓	
Ground Contamination.			✓
Topographical Features.			
Dykes.			✓
Rivers.			✓
Ponds.			✓
Canals.			✓
Boggy / Soft Ground.			✓
Trees/Hedges.	✓		
Man Made Structures.			
Walls.	✓		
Fences.	✓		
Bridges.			✓

Overall Project / Contract Risk Assessment

Location Specific Hazards:	Known	Anticipated	Not anticipated
Bunds / Mounds / Slopes.			✓
Caissons / Cofferdams			✓
Wells, underground earthworks and tunnels;	✓		
Adjacent Railway Lines.			✓
Adjacent Motorways.			✓
Adjacent Roads.	✓		
Adjacent Buildings / Structures in vicinity	✓		
Adjacent Buildings / Structures - works with impact on party wall			✓
Adjacent Buildings / Structures excavation below foundations	✓		
Adjacent Port and Harbour Facilities			✓
Adjacent Aviation facilities or operations			✓
Adjacent Industrial Premises (state specific hazards or sensitivity)			✓
Access Route Restrictions.	✓		
Client Restrictions.	✓		
Children / Schools.			✓
Site Occupiers.	✓		
Surrounding Land Use.		✓	
Mine Working Activities / Mine Shafts.			✓
Gas Discharges.			✓
Protected Flora.			✓
Protected Fauna.			✓
Japanese Knotweed.	✓		
Giant Hog Weed.			✓
SSSI.			✓
Heritage Site.			✓
Archaeology – Areas of Archaeological Interest.			✓
Underlying Strata Subject to Aquifer Protection.			✓
Site Subject to DEFRA. Restrictions.			✓

Catastrophic Events – Low Probability High Consequence (Lphc)

Catastrophic Events are beyond the ordinary or routine and are characterised by being of low probability but of high consequence. These events have the potential for multiple deaths and serious injury in a single incident / serious disruption to important infrastructure and or services. The business will inevitably suffer significant reputational, operational and financial impacts. Management of activity with the potential to cause a catastrophic event needs careful planning applying the full hierarchy of risk management ERICPD – Eliminate, Reduce, Isolate, Controls, PPE, Discipline

Reference Standard

Catastrophic Event hazard and potential	Risk Rating	Management Strategy to be fully developed in activity specific RAMS
Road traffic accident between construction vehicle and pedestrians/ cyclists (NMUs) resulting in death and serious injury.	LPHC	Eliminate where possible or reduce the need for reversing vehicles through the implementation of one-way system to the North of the Site. Tight controls on unavoidable reversing or other complex manoeuvres ensuing banksmen are in attendance. Develop process to eliminate/ reduce unknown/ unexpected deliveries, briefing of all delivery drivers. Logistics plan to developed and reviewed on periodic basis.
Accidental isolation of critical service impacting on hospital service provision and patient care	LPHC	Isolations to be provided by Client estates depart operatives or approved contractors. Specific RFI process to be put in place and ongoing engagement with specific engineers from estates department with knowledge of the site and installations. All excavation to follow the Breathe Energy Permit to Disturb ground permit.
Partial structural collapse of the permanent structure or ground during construction and removal of existing retaining walls.	LPHC	Excavation and Temporary supports to be sequenced to prevent ground collapse prior to construction of new Retaining walls. New retaining walls designed by Civil Engineer and to be erected by competent contractor. Agreed exclusion zone to isolate worksite.
Collapse of temporary works	LPHC	Design of temporary by Consultant or competent contractor. checked, installed, tested and monitored in line with the Breathe Energy Temporary Works Procedure.
Accidental release of asbestos fibres resulting in the need to isolate areas of the hospital impacting service provision and patient care	LPHC	R&D survey reports to be issued covering all work areas and scope in advance of works commencing Asbestos awareness training to be in place for all site operatives and staff. Site specific asbestos management plan to be in place.

Work Related Hazards

The following items have been noted in connection with the work to be carried out on this contract. The list is not exhaustive and everyone involved with the contract is required to identify which operations its employees are likely to be undertaking on the works and produce the relevant Risk Assessments (RA) and Method Statements. T**he risk rating shown is an example and must be confirmed**. Include additional control measures (PTW etc) for high and medium risks.

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Abrasive Wheels – Use of	Green	✓	Contractor	
Access / Deliveries Inc Traffic/Pedestrian Management	Red	✓	Breathe & Contractor	Breathe overall assessment & Logistics Plan to be considered and incorporated in the contractor RAMS.
Asbestos – Removal/ Working with	Red	✓	Contractor	Breathe overall assessment and Asbestos Management Plan to be considered and incorporated in the contractor RAMS.
Assembly or dismantling of heavy prefabricated components	Amber	✓	Contractor	Lifting plans, temporary works approval process.
Bitumen / Tar Boilers				
Carriage of Dangerous Substances in Packages by Road				
Cartridge Operated Tools – Use of e.g. Hilti	Green	✓	Contractor	
Catering / Food handling				
Chain Saws – Use of				
Circular Saws – Use of	Green	✓	Contractor	
Clearance – of site	Green	✓	Breathe	
Compressed air atmosphere - work carried out in caissons				
Compressed Air Power Tools – Use of	Green	✓	Contractor	
Confined Space – Entry Into	Amber	✓	Contractor	Suitable & competent operatives, clear definition of any areas designated as confined spaces on site. RAMS to include PTW system, sign-off of permit by Trust AP Confined spaces if entry is required.
Contaminated Land – Working On				
Cranes – Use of Tower / Mobile/ Crawler	Red	✓	Contractor	Breathe Energy Temporary works process
Crushing Operations				

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Debris Chutes – Use of				
Deliveries – Plant/Material – Unloading of	Amber	✓	Breathe & Contractor	Logistics Plan and specific delivery/ collection RAMS. Falls from height, RA in line with guidance and best practice.
Demolition	Amber	✓	Contractor	Breathe Energy Temporary Works Process
Diving where divers have a system of air supply				
Dumpers – Operating	Amber	✓	Contractor	Plant assessment including assessment of specific risks associated with compact plant
Dust – Airborne	Amber	✓	Contractor	Breathe Air Quality (Dust) Assessment report.
Earthmoving Plant – Operating	Amber	✓	Contractor	Plant assessment including assessment of specific risks associated with compact plant
Earthworks – Ground works, digging into Roadway etc	Red	✓	Contractor	Breathe PTW, GPR surveys
Electricity Inc Temporary Services / Installation /Commissioning	Red	✓	Breathe & Contractor	Temporary services to be provided to agreed isolator position by Trust.
Excavations – Working in and particularly that which puts workers at risk of burial under earthfalls.	Red	✓	Contractor	PTW, GPR surveys, Breathe TW process.
Excavators – Use of and including quick hitches	Amber	✓	Contractor	Plant assessment including assessment of specific risks associated with compact plant.
Explosives – work involving the use of.				
Fire Prevention	Red	✓	Breathe & Contractor	Overall site fire assessment, review and consideration of the Trust Fire Strategy and Evacuation plan.
First Aid.	Amber	✓	Breathe & Contractor	Emergency incident plan
Fork Lift Trucks – Use of	Red	✓	Breathe & Contractor	Logistics Plan, Lifting plan, competent operators, specific training, specific plant assessment including visibility, banksmen. contractor RAMS to cover interface and Contractor responsibilities for management/ banksmen etc.
Flammable Liquids/Substances (Inc LPG) – Use of.	Red	✓	Breathe & Contractor	Overall site fire assessment, review and consideration of the Trust Fire Strategy and Evacuation plan.

Overall Project / Contract Risk Assessment

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Fumes - Airborne	Amber	✓	Contractor	Breathe Air Quality Assessment report
Gas Safety – Installation and Alterations.	Amber	✓	Contractor	
Grit Blasting				
Hand Arm Vibration	Amber	✓	Contractor	Specific HAVS assessment and exposure monitoring to be covers in RAMS.
Harnesses – Use of	Red	✓	Contractor	Training of operatives, certification and inspection of equipment, emergency rescue plans following suspension, health monitoring.
Hazardous Substances (COSHH) – use of chemical or biological substances that puts workers at risk	Amber	✓	Contractor	COSHH register to be maintained on site, control and storage of COSHH materials.
High Pressure Jetting.				
Hoists – Use of				
Hot Work	Red	✓	Contractor	PTW, Fire watch, temporary fire alarm with reporting procedure and/or automation of feedback,
Induction – Business / Site	Red	✓	Breath & Contractor	Breathe to provide Induction. Contractor to ensure operatives attendance.
Inspection and Test plans	Green	✓	Contractor	
Ionizing radiation requiring the designation of controlled or supervised areas				
Ladders & Stepladders – Use of	Amber	✓	Contractor	Last means of access, eliminate other means of access first. Short duration works only, assessment of suitability of task to work from ladder. Specific Assessment for each ladder and activity. PTW system, inspection process in line with PUWER.
Lasers – Use of	Green	✓	Contractor	
Lead – Use of				
Legionella.	Amber	✓	Contractor	Coordination with the client's L8 appointed responsible person.
Lifting Gear – Use of	Red	✓	Contractor	Risk Control Guideline

Overall Project / Contract Risk Assessment

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Lone Working	Amber	✓	Contractor	To be avoided where practicable. Lone worker from any given contactor to be buddied with another contractor/ Breathe team member.
Manual Handling	Amber	✓	Contractor	Specific manual handling assessment for each appropriate task. Assessment to take account of the individual person, specific load, the nature of the lift and the environment.
Mast Climbers – Use of				
Material Storage	Green	✓	Contractor	
Mobile Elevated Working Platforms - Use	Amber	✓	Contractor	Risk Control Guideline
Mechanical Installation.	Red	✓	Contractor	Temporary services to be provided to agreed isolator position by Trust.
Mobile Towers - Use of	Amber	✓	Contractor	PASMA certification for inspector
Non-Destructive Testing (NDT) - Use of				
Noise – Safety.	Amber	✓	Contractor	Periodic noise monitoring, noise exclusion zones
Nuclear Densometers - Use of				
Overhead Services - Working near. Particularly high voltage power lines;				
PCBs (Polychlorinate Biphenyls)				
Personal Protective Equipment – Use of	Amber	✓	Contractor	5 Point PPE as mandatory requirement for all operatives, staff and visitors. Face Fit testing for RPE in line with RA requirements.
Pesticides – Use of				
Petrol/ Fuel – Use of	Amber	✓	Contractor	Plant nappies required for any site refuelling
Piling	Red	✓		Risk Control Guideline, UG Radar surveys
Pipe and Cable Freezing.	Amber	✓	Contractor	Last resort following isolation investigation in conjunction with Trust estates department

Overall Project / Contract Risk Assessment

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Pipe Threading Machinery – Use of	Green	✓	Contractor	
Pipework – Pressure Testing.	Amber	✓	Contractor	Agree testing requirements of any existing pipework with Trust
Pregnant women (new & expectant mothers)	Amber	✓		To be updated should any new or expectant mothers become directly involved in the project.
Public Protection (Inc Neighbours).	Red	✓	Breathe & Contractor	Eliminate and reduce interfaces where possible, coordinate wayfinding with the Trust. Isolate work areas.
Quality - Workmanship	Green	✓	Contractor	Critical concealed items of works to be 100% inspected prior to covering up.
Railway Operations - Working adjacent to				
Reversing Vehicles	Amber	✓	Contractor	Logistics Plan controls to be flowed down into Contractor RAMS
Roadworks - Working on or adjacent to	Green	✓	Contractor	
Roofwork	Red	✓	Contractor	W@H controls. Edge Protection & Netting
Scaffolding, Tube & Fitting - Use of	Amber	✓	Contractor	Use of competent contractor. Design to be developed in conjunction with Trade Contractors to agree suitable means of access to work face and simplify works from scaffold to minimise situations of enforced/enticed mis-use.
Scaffolding, System - Use of				
Site Set-Up / Security	Amber	✓	Breathe	Out of hours inspections by Client Security
Structural Steelwork – Erection of	Amber	✓	Contractor	Breathe temporary works process, TWC appointment.
Structural Concrete – Erection of	Amber	✓	Contractor	
Suspended Access – Use of				
Temporary Works/False-work /	Red	✓	Contractor	Breathe temporary works process, TWC appointment.
Tidiness – Site	Green	✓	Contractor	
Tunnelling				

Overall Project / Contract Risk Assessment

Operation	Risk Rating	Tick activities relevant to contract:	Site specific RA to be provided by (Breathe / contractor):	Additional Control Measure
Traffic Management (Off-Site)				
Underground Services	Red	✓	Contractor	PTW, Radar surveys
Visual Display Units – Use of	Green	✓	Breathe & Contractor	
Waste Management / Recycling	Green	✓	Breath & Contractor	SWMP to coordinate with contractor RAMS
Water – Working on or adjacent to and exposing workers to the risk of drowning				
Weather Conditions – Adverse Weather.	Green	✓	Contractor	Consideration of safety and quality
Welding / Burning / Cutting with heat	Red	✓	Contractor	PTW (Hot Works)
Work Equipment (Portable Tools) – Use of	Green	✓	Contractor	
Working at Height, which puts workers at risk from falling – inc use of Harnesses.		✓	Contractor	Hierarchy of control applied to selection of edge protection and access equipment. SG4 principles applied to scaffold erection, establishment of scaffolder's safe zone during erection.
Workshop – site				
Whole Body Vibration	Amber	✓	Contractor	Risk Control Guideline
Young Persons – working on site	Amber	✓	Breathe & Contractor	Where necessary assessment of individual and proposed role.
OTHER HAZARDS PARTICULAR TO THIS CONTRACT				
Aspergillus	Amber	✓	Breathe & Contractor	
Magnetic interference	Amber	✓	Breathe & Contractor	Await further guidance from Trust regarding locations
Needle Stick Injuries	Amber	✓	Breathe & Contractor	
Radiation	Amber	✓	Breathe & Contractor	Await further guidance from Trust regarding locations
Mental Health Security	Amber	✓	Breathe & Contractor	

Environmental Impacts

The following items have been noted in connection with the work to be carried out on this contract. The list is not exhaustive and everyone involved with the contract is required to identify which operations are likely to be undertaking on the works and produce the relevant Risk Assessments (RA) and Method Statements.

Operation	Risk Rating	Tick activities relevant to the contract	Site specific RA to be provided by (Breathe/ contractor):	Additional Control Measures
Working Hours (Project to advise)	Green	✓	Breathe	No restrictions
Air Pollution / Quality – Release of harmful emissions				
Air Pollution / Quality – Nuisance to local people.	Green	✓	Breathe	Air Quality (Dust) Assessment report
Air Pollution / Quality – Damage to vegetation.				
Water Pollution – Contamination of controlled waters.				
Water Pollution – Interference of legitimate use of resource downstream.				
Water Pollution – Damage to water habitat/aquatic life.				
Water Pollution – Damage to recreational value of waters used by public.				
Water – Minimizing use	Green	✓	Breathe	Local metering to be considered
Noise – Environmental Nuisance/Statutory Nuisance	Amber	✓	Contractor	Risk Control Guideline
Waste –Illegal deposit /storage of waste on site.	Amber	✓	Breathe & Contractor	Breathe to manage all Non-special waste with regulated disposal contractor.
Damage to Plant and Wildlife – Damage to protected species e.g. Newts/Badgers.				
Damage to Plant and Wildlife – Damage to plants and Animals.				
Damage to Plant and Wildlife – Loss of natural habitat for animal species.				
Damage to Plant and Wildlife – Loss of vegetation, trees and plant growth.	Green	✓	Contractor	RAMS development to assess any implications of conditions from local planning authority for working adjacent to protected trees.
Use of Resources and Difficult Materials – Loss of limited natural resource.				
Use of Resources and Difficult Materials – Use of irreplaceable fossil fuels and aggregates.				

Overall Project / Contract Risk Assessment

Operation	Risk Rating	Tick activities relevant to the contract	Site specific RA to be provided by (Breathe/ contractor):	Additional Control Measures
General Environmental Impacts – Visual impact of site.				
General Environmental Impacts – Impact on local amenities and services.				
General Environmental Impacts – Impact on local geology, ecology and local heritage.				
Vibration – Damage to structures/stability.	Amber	✓	Contractor	Risk Control Guideline
Traffic – Conflict with local traffic and pedestrian routes.	Red	✓	Breathe & Contractor	Logistics Plan
Traffic – Conflict with abnormal traffic routes.				

Notes:

All hazardous substances to be used for this contract shall be listed and Product Data Sheets and COSHH Assessments provided, as appropriate, prior to the substances being brought to this location. All COSHH Assessments must be communicated to all operatives using or affected by the substance.
All materials, tools and/or equipment that are heavy or are to be repeatedly handled by operatives for this contract shall be identified and assessed in accordance with the Manual Handling Procedure.
All hand held vibrating tools shall have a vibration assessment carried out which shall be communicated to all the operatives using them. A record shall be kept indicating the amount of time periods each operative has used vibrating tools.
Where deemed necessary a noise level assessment of tools and equipment shall be carried out and the results communicated to all operatives who are or may be affected by the noise.
A copy of this completed assessment must be given to any subcontractors who then need to complete the relevant sections which are applicable to their operations. Upon receipt of the completed form Breathe can clearly identify the information that needs to be provided to control the identified risks.

Contract	PAT-NMGH Energy Centre	Reference	



Compiled by:	Wayne Frankland	Date:	25/01/2019

Record of Plan review		
Reviewed by	**Signed**	**Date**

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Traffic routes

A construction site must be organised in such a way that, pedestrians and vehicles can move without risks to health or safety.

Traffic routes must be suitable for the persons or vehicles using them, sufficient in number, in suitable positions and of sufficient size. A traffic route does not satisfy unless suitable and sufficient steps are taken to ensure that:

- Pedestrians or vehicles may use it without causing danger to the health or safety of persons near it;
- Any door or gate for pedestrians which leads onto a traffic route is sufficiently separated from that traffic route to enable pedestrians to see any approaching vehicle or plant from a place of safety;
- There is sufficient separation between vehicles and pedestrians to ensure safety or, where this is not reasonably practicable:
  - Other means for the protection of pedestrians are provided, and
  - Effective arrangements are used for warning any person liable to be crushed or trapped by any vehicle of its approach;
- Any loading bay has at least one exit for the exclusive use of pedestrians; and
- Where it is unsafe for pedestrians to use a gate intended primarily for vehicles, at least one door for pedestrians is provided in the immediate vicinity of the gate, is clearly marked and is kept free from obstruction.

Each traffic route must be:

- Indicated by suitable signs where necessary for reasons of health or safety;
- Regularly checked; and
- Properly maintained.

No vehicle is to be driven on a traffic route unless that traffic route is free from obstruction and permits sufficient clearance.

Working space

Construction sites must, so far as is reasonably practicable, have sufficient working space and be arranged so that it is suitable for any person who is working or who is likely to work there, taking account of any necessary work equipment likely to be used there.

Introduction

This document represents the Logistic management strategy for St Helier Hospital External Fabric Refurbishment. In particular it addresses site specific risks and those associated with the movement of traffic and pedestrians as well as identifying the necessary control measures to be employed and the rationale for their use.

This is a working document and will be reviewed quarterly as a minimum or when there is a significant change in the location operations and updated to reflect any changes in the work methodology.

The following information is based on the Logistic Traffic Management risk assessment contained in Appendix A and Appendix B

Access and Egress

Main vehicular access for deliveries and plant is via a shared Entrance on Central Drive (Gate 1) which leads to the Storage compound, Welfare compound, and Construction Foot print. For smaller vehicles the exit is into the existing car park (Gate 3) and Across a Temporary Road to be constructed by Breathe at part of this contract. This allows a Construction one way system. Due to the tight turns, larger vehicles will need to be reversed into Central Drive with the assistance of at least 2No Banksmen.

A second vehicular access (Gate 2) is also from central drive, which gives to option to access to south side of the worksite. Smaller vehicles will turn around within the worksite, but again larger vehicles will need to be reversed and banked into central drive.

Pedestrian access is from the Hospital car park toward site pedestrian gate/Turnstile which leads into the welfare compound.

Internal Pedestrian access will be provided from the welfare to the worksite on segregated and signed walkways, which will be indicated with red hoops/ barriers at crossings.

Responsibilities

The Logistics Manager is: **Wayne Frankland**

Supported by: **Paul Caldwell**

Site security is provided by Breathe Energy by means of the site team, during working hours and will control the working area access/egress points.

Turnstile permissions will only be issued after completion of the location induction, any queries or requests to be addressed to: **Wayne Frankland**

All persons entering the location are responsible for their own safety and compliance with this plan.

The PAT Security will be responsible for patrolling the area out of normal working hours.

Parking

There is no parking permitted in the work area or site compound.

Parking is not permitted on any of the streets around the hospital or on any roads within the Hospital site.

Contractors may have use of the Hospital parking facilities for visitors/ general public for the fee’s displayed.

Deliveries

All deliveries must be coordinated with Breathe at the daily coordination meeting. All deliveries must follow the approved route to the work location as shown in Appendix C

All Deliveries must be booked in 48hrs in advance and arrive within the allotted timeslot.

Deliveries will be registered at the access gate providing details of journey start point, a copy of the delivery ticket will be taken by the gateman.

Delivery vehicle drivers must be given the delivery driver induction prior to Arrival at the depot as information will be sent before hand.

This should be accompanied by a “Drivers Card” detailing the rules that apply to them and their vehicle, which they must be asked to display on their dashboard.

Plant operators must receive the plant operator induction module.

Major Deliveries

The following are the main anticipated deliveries:

- Skips approx. 90
- Concrete approx. TBC
- Steelwork approx. TBC
- Roofing approx. TBC
- Cladding approx. TBC
- Earthworks approx. TBC

Personal Protective Equipment

The following is the minimum requirement in the work area

- Safety helmets
- Safety Footwear
- Gloves,
- Eye Protection
- Hi- Visibility clothing.

Consultation

The main requirements of the Logistic Management Plan will be sent to all contractors and communicated to all individuals during the Site Safety Induction. In addition the site Health and Safety information board located at the Welfare compound will identify and communicate current site hazards.

Any party may request alteration to the plan through the coordinator named in responsibilities above, however, requests can only be implemented if they do not adversely impact others.

Security Checkpoints

All vehicles will be met on arrival to site by a member of the Breathe Site Team or nominated sub-contractor.

Waste- Packaging

Breathe provides waste skips for the disposal of material packaging. Breathe requires that all contractors comply with the site Waste Management Plan, in that segregation of waste is managed. Skips will be identified and appropriate signage displayed. Location of skips is shown in Appendix B. Contractors are to dispose of waste into the designated skips, or Tipper skips awaiting fork-lift collection.

The waste Coordinator will regularly inspect signage & waste to ensure that the waste is being placed in the correct skip. The skips will be changed over during the day to minimise traffic congestion

Environmental

Deliveries will only be accepted between the hours 730am-6pm, Monday to Friday unless prior arrangements have been agreed by Breathe.

Central Drive will be maintained and cleaned with the use of a Road Brush, to minimise dust and debris when necessary.

Vehicles must not be parked with engine running; lights are only to be used to facilitate manoeuvring.

Reporting

An open door policy is in place to report any defects, safety concerns, H&S breaches, and improvement suggestions. All communications will be recorded by Breathe and will be acted upon accordingly.

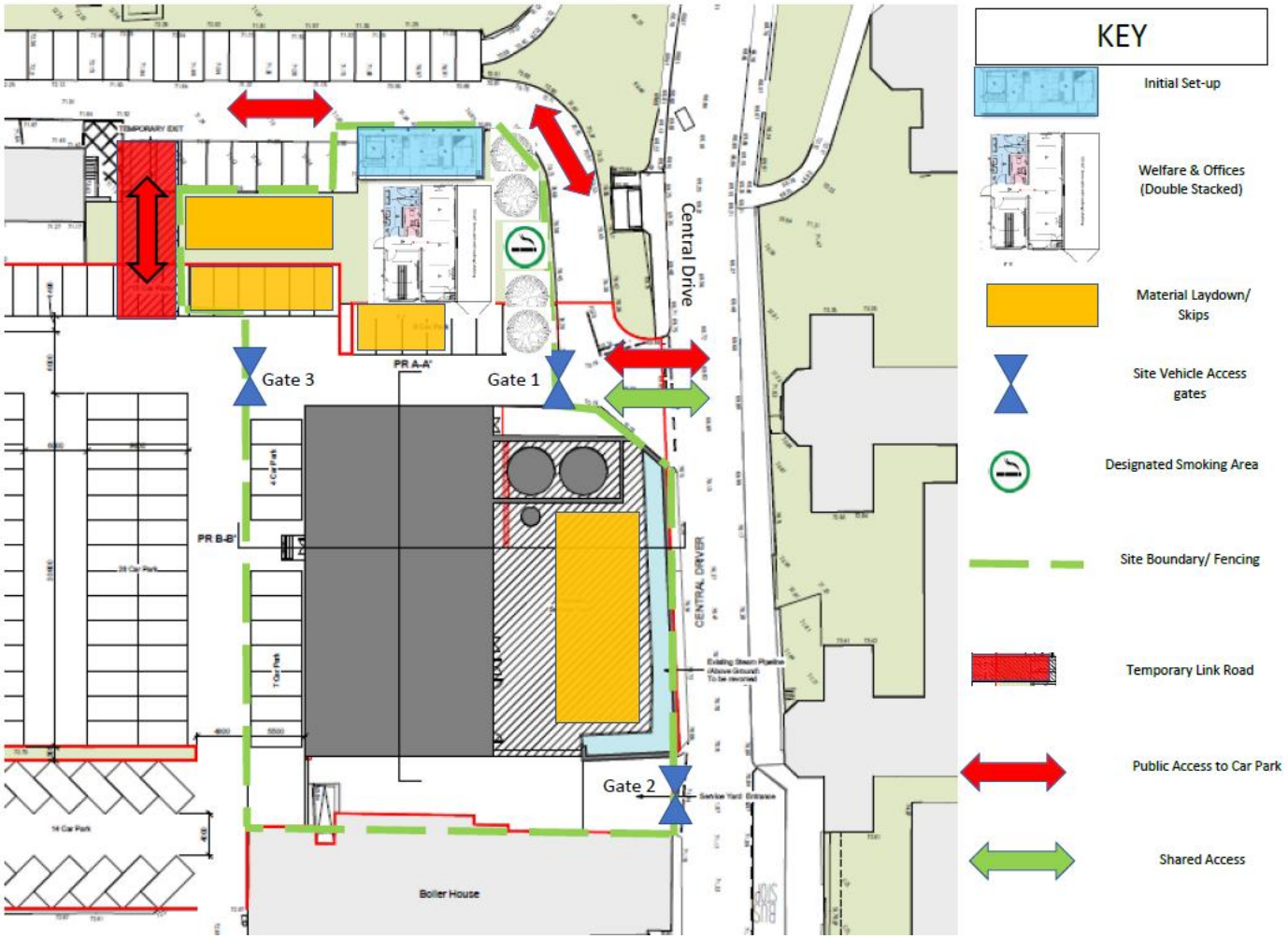
Planned and unplanned worker engagements will be carried out. This is an initiative where staff engage through communication to identify good/bad practices, which are recorded and logged. We will invite contractors to a planned worker engagement meeting to discuss any safety issues on the site.

End

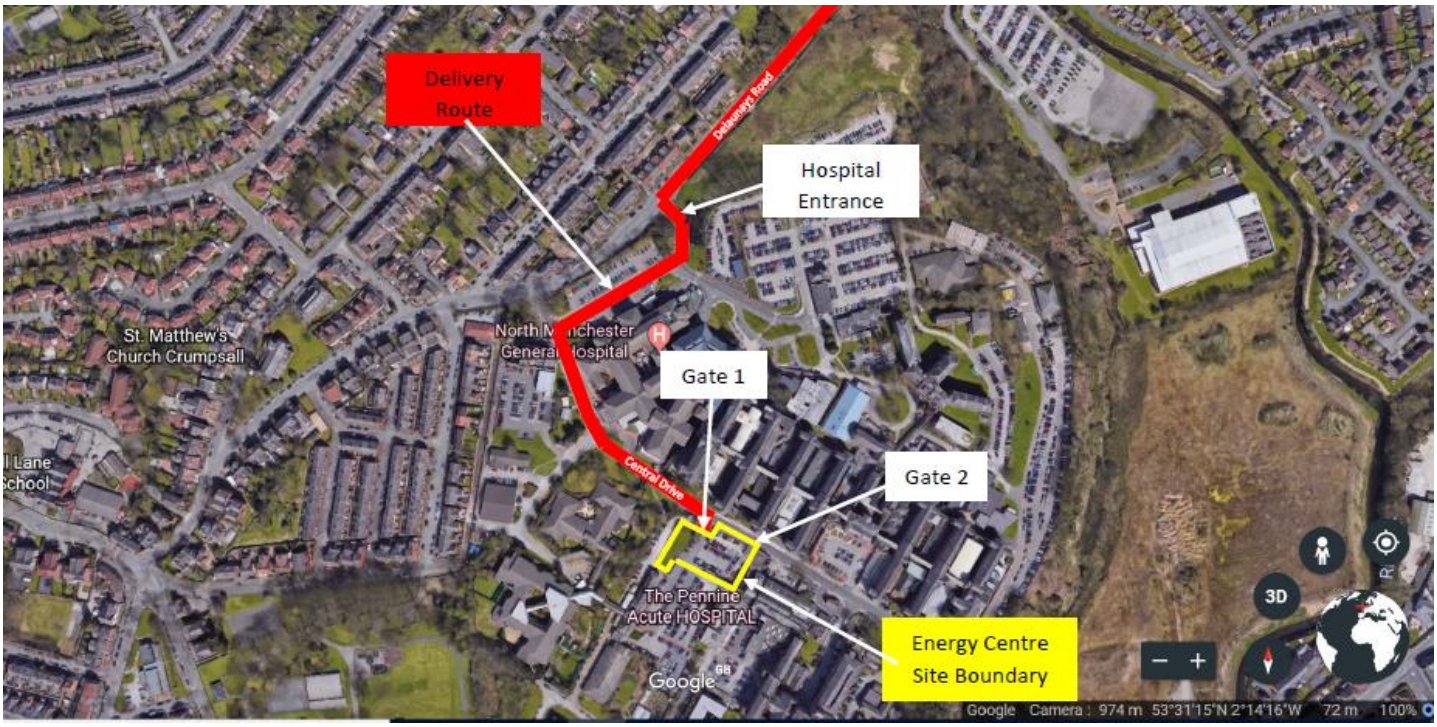
Appendix A - Risk Assessment

No:	Item	Y	N	Comments
1	**Access**			
1.1	Are Vehicle traffic routes suitable for type and volume of traffic, wide enough, turning		N	Breathe Intend to construct a temporary link road to create one way access for vehicles leaving site, but also create the access to the car park for hospital staff/ visitors. Due to site restrictions some reversing under the control of banksmen will be required.
1.2	Are routes sufficiently separated from pedestrians		N	Although the majority the traffic routes on the hospital grounds are separated from pedestrians via traditional footpaths, due to the New Build the existing carparks are being re-shuffled. The Trust have identified 2No areas where some pedestrian de-markation will be required.
1.3	Are all necessary safety features in place		N	Breathe will but in place 2No Traffic mirrors at gates 2 & 3. Breathe will also erect the local speed limit and information in Prominent positions adjacent to site and along the central drive route. We will also highlight the entrance (s)/ exit to site with Red&White waterfilled barriers.
2	**Vehicles**			
2.1	Are vehicles suitable for use	Y		Vehicles to be used for construction works will be suitable for use with regards to task and site conditions and checked as part of Method Statement review.
3	**Drivers**			
3.1	Is there a procedure for ensuring driver competency and supervision	Y		All vehicle operators (on site only) are to provide a certificate of competency. Other vehicle drivers e.g. deliveries will be supervised by the appropriate sub-contractor. Driver site safety information will be provided. ALL site plant drivers to submit a copy of their CPCS/ IPAF cards to Breathe
4	**Pedestrians**			
4.1	Are appropriate measures in place to deal with all range's of pedestrian types	Y		Site personnel, visitors, members of the public and local residents have been taken into consideration in the development of the Traffic Management Plan. Control will be mainly by physical barriers, signage and supervision.
5	**Loading/Unloading**			
5.1	Off-loading of Materials to comply with the working at heights regulations	Y		The relevant party will be responsible for the loading and unloading of their materials. Procedures should be incorporated within method statement, including driver safety when working at height.
6	**Waste**			
6.1	Are there sufficient procedures in place for waste removal	Y		Designated skips will be provided in pre-determined areas. The skips will be changed during the day.
7	**Environmental**			
7.1	Are there procedures in place to minimise environmental impact			Site will operate normal working hours 7.30am to 5.30pm. A road brush will maintain a clean access road
8	**Consultation**	Y		Traffic Management Plan requirements will be briefed during the induction and a copy will sent to all sub-contractors. Driver site safety information instructions will be communicated by contractor prior to arrival on site. A hand out will be issued to all site delivery drivers. These are to be signed and returned to the security office.

Appendix B – Site Plan



Appendix C – Route for Deliveries to Site



Appendix D – Delivery Drivers Rules (Inc Plant Fitters)

All deliveries entering site must read and sign this document prior to arrival on site. It is important that you are aware of the rules for Health and Safety which are in operation here. Failure to comply will result in your removal from site

ALL Deliveries must contact Breathe or the Appropriate sub-contractor 20 mins prior to arrival, so they can be met at the designated entrance Gate and pull straight into the compound. This is to prevent blocking central drive which would effect members of the general public, staff and potentially Ambulances.

Once pulled in Drivers **must wait for attendance** from the receiving company or Breathe Banksmen.

Follow the designated traffic route for access and be aware of pedestrians and pedestrian routes. **Always give way** to pedestrians.

The speed limit is **10mph max! - do not exceed this limit**

A warning beacon or hazard warning lights must be **on** at all times whilst on site.

Do not reverse your vehicle without the supervision of a banksman/vehicle marshal.

Do not leave your vehicle unattended except in emergency.

Mandatory **PPE** for this site when not in your vehicle is hard hat, high-vis jacket, safety footwear, gloves and safety glasses

You must report any **Accident/Incident/Near Miss** to Breathe immediately.

If you require **First Aid** you must report to the site office immediately.

First aiders on site are **Located in the Breathe Site office**

If you hear the **Emergency Alarm**, you should evacuate the site to the muster point number adjacent to Gate 3. **Do Not** attempt to take your vehicle with you – leave it in a safe location.

Unloading requires

A site specific Point Of Work Risk Assessment to be provided before any unloading will be allowed

HIAB operators to produce 12 & 6 monthly test certificates, for both chains and HIAB; together with **Valid** evidence of their own **Competency** before using the equipment.

No Working on wagon/pickup decks unless a **fall arrest/prevention** method is in place.

King Posts in place if long materials such as pipework, steels etc are being unloaded.

Plant Fitters are required to:

- produce a **risk assessment** for the activity that they are doing
- Complete the work in the **designated plant maintenance area**

When **leaving** site please ensure you are considerate and courteous to our neighbours

You and your vehicle may be **searched** on leaving site.

If you have **seen any issues that concern you** or wish to discuss anything with site staff then talk with any member of the site team.

Retain this driver card whilst on site & return to the Banksman on exit. SITE MANAGER 07517 994 663

Driver Name:	
Signature:	
Vehicle registration:	

Emergency Incident Plan

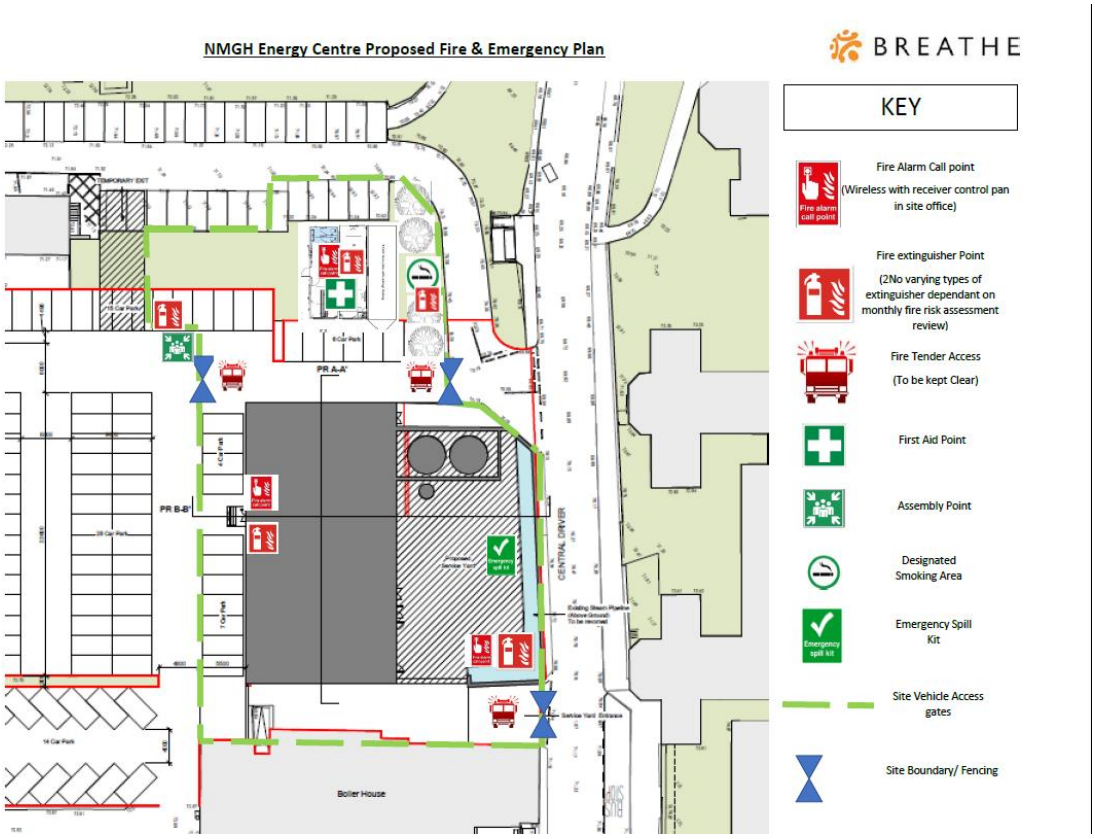
Location:	North Manchester General Hospital – Energy Centre	**Plan Ref No:**	
Plan Owner:	Wayne Frankland	**Contact No:**	.07517994663

Actions Required for any Incident	**By Who**
Raise the alarm	The person discovering the emergency incident, or anyone made aware of it to notify Breathe Energy Site Manager
Establish and maintain a command structure throughout the emergency incident	Site Manager (SM)
Carry out a risk assessment and take action to stop further injury or harm and help damage limitation (Non-Written)	Site Manager
Emergency shutdown of plant, isolation of systems and/or making processes safe	Those competent to do so and instructed to do so by the Site Manager
Ensure all the necessary information is passed to relevant people and that information is acted upon promptly and properly	Site Manager
Liaise with the local emergency services	Site Manager
Take prompt remedial action, such as fire-fighting, administering first-aid and the deployment of spill kits	Only those competent to do so.
Attend the scene of the incident	All trained first-aiders
Keep all those not involved with first aid, rescue or investigation away from the scene of the incident	The most senior person present at that time or person designated by SM

The potential emergency situations have been identified from our Risk Register:

Potential Incident	**Actions Required and by Whom**
Fire	All present to go to assembly point. Fire Marshalls to take roll call. PM to establish if false alarm, before Calling Emergency services and informing Trust to evacuate hospital
Serious incident/ Injury	First Aiders on scene to deal with situation and arrange for Emergency services to be contacted. PM to contact Breathe Energy Construction Director (CD)
Large Spillage	Emergency Co-coordinator to organise mitigation procedures. PM to inform Construction Director and Trust.
Collapse of scaffold or Structure	All Present to Assembly Point. PM to contact appropriate Emergency Service. Trust Emergency Security control room to be informed on _____ and advised which areas are to evacuate. Area to be secured and people prevented from entering area. PM to CD

Evacuation Assembly Point



Emergency Contact Numbers:		
Contact	**Name**	**Number**
Project Manager	Wayne Frankland	07517 994663
Project Engineer	Paul Caldwell	07920 282172
Project Construction Director	Paul Weaver	07789 797993
Project Safety Advisor	TBC	
Environment Agency	Emergency Hotline	0800 807060
Fire, Ambulance and/or Police		999
Spill Contractor	TBC	

Employees should be made aware of the actions required (above) and shown the correct use of any relevant emergency cut-off switches, spillage kits etc.

This Emergency Plan will be tested periodically.

Plan Prepared by:			
Name:	Wayne Frankland	**Position:**	Project Manager
Signature:		**Date:**	

A copy of this plan must be displayed on site notice boards.

Fire Assessment and Arrangements

Contract Name:	Pennine Acute Trist)PAT)	**Reference:**	Pre-commencement
Premises Name:	NMGH Energy Centre	**Premise Address:**	Delaunays Road, M8 5RB
Premises Type:	New Build Energy Centre	**Number of Floors:**	2
Date of Assessment:	24/01/2019	**Date of Next Review:**	1 Month after Commencement
Name of Assessor:	Wayne Frankland	**Signature of Assessor:**	
Name of Approver	Paul Weaver	**Signature of Approver:**	

Identifying Combustible Materials			**If yes, what are they?**
1	Are cylinders of flammable gases used or stored?	Yes	Welding Gases
2	Are flammable liquids used or stored?	Yes	Diesel Fuel
3	Are there highly flammable materials in the workplace?	No	
4	Are quantities of combustible waste permitted to accumulate in the workplace?	Yes	General waste/ Packaging
5	Are excessive quantities of combustible materials stored in the workplace?	No	
6	Are substantial areas of walls or ceilings covered with flammable linings?	No	
7	Are there any other readily combustible materials in the workplace which present a significant hazard?	No	
Is Liquefied Petroleum Gas (LPG) stored on the premises?		Yes	Roof works (Propane)

			If 'No', what action will be taken?
8	Are LPG cylinders stored safely (preferable 4m away from any boundary fence and in a fenced compound)	Yes	
9	Is the store used only for cylinder storage?	Yes	
10	Are empty cylinders treated in the same manner, but kept separate and labelled empty?	Yes	
11	Are permanent warning notices prominently displayed prohibiting smoking and naked lights?	Yes	
12	Are cylinders stored with their valves uppermost?	Yes	

Combustible Materials Control Measures			If 'No', what action will be taken?
13	Is there a system for controlling the amounts of combustible materials and flammable liquids and gases that are kept in the workplace?	Yes	
14	Are all combustible materials and flammable liquids and gases stored safely?	Yes	

Identifying Sources of Ignition			If 'Yes', what are they? Provide details
15	Are there any work activities involving the use of heat or producing sparks?	Yes	Welding, Cutting, Grinding
16	Is there any oil or gas burning equipment?	Yes	propane heat gun
17	Are there any hot ducts or flues and are they cleaned?	No	
18	Are the "No Smoking" regulations strictly enforced?	Yes	No Smoking on site. Only smoke in designated area.
19	Are there any combustible materials in electrical cupboards and plant rooms?	No	
20	Are there any portable heaters?	No	
21	Are there any cooking appliances?	No	
22	Are combustible materials stored in close proximity i.e. unsafe distance from heating appliances and/or flues	No	
23	Could materials be carelessly / inadvertently left on heaters?	Yes	in welfare facilities. issue forms part of induction and signage in place.

Identifying Sources of Ignition			If 'Yes', what are they? Provide details
24	Are there light bulbs and fittings near flammable materials?	No	
25	Is electrical equipment or wiring faulty or damaged?	No	
26	Does the electrical equipment have extension leads?	Yes	Site supplies and tools
27	Are there any portable electric appliances that are not subject to routine inspection?	No	
28	Are there multi-point adapters in electrical sockets?	No	
29	Is there a likelihood of arson?	Yes	Potential from General Public
30	Are there any points of entry to the site and buildings that could be used by intruders?	No	
31	After closedown of operations are doors, windows and gates left unsecured?	No	
32	Can combustible materials accumulate on the grounds surrounding the premises?	No	
33	Could contractors/visitors to the project be in a position of not knowing what to do in the event of any emergency?	No	
34	Are any contractors and/or their works unsupervised?	No	
35	Are there any other sources of heat in the workplace?	No	

Combustible Materials Control Measures			If 'No', what action will be taken?
36	Wherever reasonably practicable, do procedures and practices avoid the use of processes utilising heat?	Yes	
37	Has consideration been given to measures that could be taken to prevent the occurrence of arson?	No	Site skips will be lockable or stored away from site Boundary.
38	Are all heaters fitted with guards if required and kept away from combustible materials?	Yes	
39	Is the wiring of the electrical installation inspected at least every five years?	Yes	
40	Are all items of portable electrical equipment inspected at intervals determined by risk assessment and are records available?	Yes	

41	Is the use of extension leads and multi point adapters kept to a minimum?	Yes	
42	Do flexes run in safe places where they will not be damaged?	Yes	
43	Are designated outside smoking areas provided with adequate disposal facilities?	Yes	

Identifying the People at Risk			**If 'Yes', what are they and provide details**
44	Are there any staff who work in remote areas of the building (e.g. basement etc)	No	
45	Can members of the public access the building?	No	
46	Is the workplace used by persons with impaired mobility, hearing or eyesight or with mental disability?	No	
47	Do any young or inexperienced persons work on the premise?	No	

Means of Escape			**If no, what action will be taken?**
48	Are there sufficient escape routes and exits of suitable width for the people present?	Yes	
49	Do exits lead to a place of safety?	Yes	
50	Are all escape routes and exits free from obstruction and floor surfaces free of slip or trip hazards?	Yes	
51	Are all internal fire doors clearly labelled as such and kept closed?	N/A	
52	Are escape routes and exits clearly marked and can all fire safety signs and fire exit notices be clearly seen?	Yes	
53	Are all fire doors on escape routes self-closing, with the self closing devices in working order?	N/A	
54	Are exits clearly indicated where necessary and are all escape routes adequately lit?	Yes	
55	Where appropriate, do all doors used as a means of escape open in the direction of travel?	Yes	
56	Can all doors used as a means of escape be easily and immediately opened from the inside?	Yes	

Means of Escape			If no, what action will be taken?
57	On escape routes, are all vents and service ducts suitably protected and all holes around services such as pipes and cables stopped with fire resistant material to prevent the spread of fire, heat or smoke?	N/A	
58	Are fire instructions clearly displayed throughout the workplace?	Yes	
59	Is the emergency escape lighting, where necessary, regularly tested and maintained in good working order with records kept?	Yes	
60	Have plans been made and rehearsed regarding assisting disabled staff and visitors to evacuate the premises?	No	RA TBC

Fire Alarm and Detection System			If 'No', what action will be taken?
61	If an automatic fire alarm system is fitted, is it regularly tested and maintained in working order with records kept?	N/A	
62	Can the alarm be heard in all parts of the premise?	Yes	
63	Are the fire alarm call points unobstructed and clearly visible or suitably indicated?	Yes	
64	Are the smoke and heat detectors regularly inspected for signs of damage?	N/A	

Means of Fighting Fire			If 'No', what action will be taken?
65	Is there sufficient fire fighting equipment of the correct type provided throughout the premises?	Yes	
66	Are portable fire extinguishers, fire blankets, etc suitably located and available for use?	Yes	
67	Have all fire fighting appliances been inspected/tested within the last year and are records available?	Yes	

Provision of Training and Information			If 'No', what action will be taken?
68	Have all employees been provided with suitable information, instruction and training on: The action to be taken on discovering a fire? The sound of the fire alarm? The action to be taken when the alarm is raised? The location of the fire escape routes and exits? The location of the fire assembly areas? The use of fire fighting appliances where appropriate? Not using lifts as a means of escape? Are records kept of all training?	Yes	
69	Are fire evacuation drills held bi-annually?	Yes	
70	Are there an appropriate number of fire marshals?		
71	Have those fire marshals been suitably trained?		
72	Are visitors and contractors provided with fire evacuation procedure information?	Yes	

Control of Contractors		If 'No', what action will be taken?	
73	Prior to contractors undertaking any hot work on the premise, are the contractor's arrangements to control the fire risk checked for adequacy?	Yes	

Other

Recommendations

Action Plan – Control Measures			
Detail of Action	**Responsible Person**	**Due date**	**Completion Date**

Closing Assessment
Having completed the assessment and introduced control measures make a revised evaluation of the risk to life should a fire occur at the premises: **Amber**

First Aid Assessment and Arrangements

Contract:	Pennine Acute Trust	**Location / Site:**	North Manchester General Hospital
Date of Assessment:	27/01/2019	**Date of Next Review:**	1 Month after Project commencement
Name of Assessor:	Wayne Frankland	**Signature of Assessor:**	
Name of Approver	Paul Weaver	**Signature of Approver:**	

Hazard Identification	Guidance	Details / Actions
Are there any specific risks associated with the scope of work? • Hazardous substances; • Dangerous tools; • Dangerous machinery	You will need to consider: • Specific training for First Aiders; • Extra first-aid equipment; • Precise siting of first-aid equipment; • Informing emergency services; • First-aid room.	The Majority of tasks will involve Plant. FA must take into account concrete activities First Aid points will be strategically placed to get a full coverage of the site. Sub-contractors will also carry first Aiders in addition to Breathe
Are there parts of your establishment where different levels of risk can be identified?	You will probably need to make different levels of provision in different parts of the establishment.	No
What is the record of accidents and cases of ill health? What type are they and where did they happen?	You may need to: • Locate the provision in certain areas; • Review the contents of the first- aid box.	None to date.
Are there young workers, inexperienced workers on site, or employees with disabilities or special health problems?	You will need to consider: • Special equipment; • Local siting of equipment.	Unknown at this point
Are the premises spread out, e.g. are there several buildings on the site or multi-floor buildings?	You will need to consider provision in each building or on several floors.	New Build can be segregated from the public. Other works are spread out within the hospital buildings. In these instance's FA personnel will carry small mobile kit.
Is there shift-work or out-of hours working?	Remember that there needs to be first-aid provision at all times people are at work.	If required FA personnel will be present.
Is the workplace remote from emergency medical services?	You will need to: • Inform local medical services of your location; • Consider special arrangements with the emergency services.	No
An Automated External Defibrillator (AED) will be available to all workplaces unless the requirement is risk assessed out	An AED may be risk assessed out if; • There is a low population of over 45's as the risk of a heart attack increases between the ages of 45-58 • There is close proximity of emergency services response only a few minutes away as the quicker defibrillation is administered the higher the chance of survival • There is close proximity of a Public AED – with easy and authorised access	An AED will be located in Breathe site Office. The site is also located close the Accident and Emergency ward, so a quick response is assured.

Hazard Identification	Guidance	Details / Actions
Do you have employees who travel a lot or work alone?	Consider issuing personal: • First-aid kits and training staff in their use; • Communicators to employees.	No
Do employees work at sites occupied by other employers?	You will need to make arrangements with the other site occupiers and confirm the arrangements in writing.	No
Do you have any work experience trainees?	Remember that your first aid provision must cover them.	Unknown at this point
Do members of the public visit your premises?	You have no legal responsibilities for non-employees, but HSE strongly recommends you include them in your first-aid provision. Breathe's Plc's Public Liability Insurance covers litigation with regards first aid treatment to non-employees	No
Do you have employees with reading or language difficulties?	You will need to make special arrangements to give them first-aid information.	Unknown at this point.
Further Comments		
There are No shower facilities planned for the main welfare. During periods of large concrete works, contractor is to provide temporary COSHH Shower which will be temporarily plumbed by Breathe.		

Contract / Office:	PAT - NMGH		
Address:	Breathe Site Office, North Manchester General Hospital, Delaunays Road, Crumpsall, Manchester, M8 5RB		
Maximum Number of Personnel Employed:	50	**No of people in age range 45-58**	unknown
No of First Aiders Required:	2	**No of Appointed Persons Required:**	1
Are AED's being provided by Breathe?	Yes	**If AED's are being provided, how many are being provided?**	1
Identify location(s) of any first aid room provided by others:	None		
Identify any medical personnel provided by others:	None		
Specify how to raise the alarm / call for assistance:	Dial 999.		
Name and address of nearest available accident and emergency (A&E) unit	North Manchester General Hospital, Delaunays Road, Crumpsall, Manchester, M8 5RB		
Detail arrangements for transporting an injured person to hospital:	Project is on a Hospital site, so could be walked round are taken in Colleagues Car or walking. If serious assistance from Emergency services required.		
Detail any telephone / communication facilities available:			

Other Relevant Information / Instructions:

Plan is to have a First Aid Alarm incorporated with in Fire Alarm system which differentiates between the two Emergency Types. To be reviewed and confirmed upon installation.

Name of First Aiders	Location
Name of Appointed Persons	**Location**
Type of First Aid Box / Kits on site	**Location**
If AED's are being provided populate the section below	**Location**
Public AED	
Public AED	
Public AED	
Breathe provided AED	***Breathe Site Office (on Order)***
Breathe provided AED	
Breathe provided AED	

Prepared by:	Wayne Frankland	**Position:**	Project Manager
Signature:		**Date:**	

SITE WASTE MANAGEMENT PLAN

For:

The Pennine Acute Hospitals NHS Trust

North Manchester General Hospital

	Position	Name	Signature	Date
Prepared by:	Project Manager	Wayne Frankland		
Reviewed by:	Construction Director	Paul Weaver		
Authorised by:				

Breath declare that we will take all reasonable steps to ensure that all waste from the site is dealt with in accordance with the waste Duty of Care in s.34 of the Environmental Protection Act and the Environmental Protection (Duty of Care) Regulations, that materials will be handled efficiently to minimise wastage and that all waste arising from site will be managed appropriately.

	Position	Name	Sign	Date
For Breathe:	Project Manager	Wayne Frankland		

Review and update record

Appendices	
	Section
Appendix 1	Copy of Waste Carrier's or Broker's Licence
Appendix 2	Site Waste Management Plan Checklist
Appendix 3	Waste Predictions and Summary Sheet
Appendix 6	Declaration of Conformity

	Date		Three monthly review record	
#	Planned	Actual	Purpose and details of amendments	Issue
1	27/01/2019		Initial issue for use and employer review	1
2	27/04/2019		Periodic Review	2
3	27/07/2019		Periodic Review	3
4	27/10/2019		Periodic Review	4
5	27/01/2020		Periodic Review	5
6	27/04/2020		Project Close down	6

Contract	PAT – North Manchester General Hospital – Energy Centre
Client:	The Pennine Acute Hospitals NHS Trust
Principal Contractor:	BREATHE
Person drafting this SWMP:	Wayne Frankland
Site location:	Delaunays Road, Crumpsall, Manchester,
Description of proposed works:	New Build Energy Centre on an Existing Live Hospital Site
Estimated cost of contract:	

Guidance Notes on Preparation

Generally the text will only need to be changed or added between the prompts '<< >>'.

Work through the text checking the content and adding contract specific data at the prompts. You can also use the 'find' function (Ctrl+F) to quickly search and find all the '<<', for example.

When using copy and paste to insert text into the tables in this Plan, use the paste special and unformatted text feature to avoid bringing in the various fonts and formatting from the source document.

Note: This plan must be accessible to any authorised officer carrying out a regulatory check.

Contents

1. Introduction
2. Legislation and Guidance
3. Definition of Waste
4. Storage and Transportation
5. Disposal of Waste
6. Potential Wastes and Management Options
7. Completion of Work

Appendix 1 Copy of Waste Carrier's/Broker's Licence
Appendix 2 Site Waste Management Plan Checklist
Appendix 3 Waste Predictions and Summary Sheet
Appendix 4 Declaration of Conformity

1. Introduction

This Site Waste Management Plan (SWMP) applies to all activities throughout the contract. This plan is appropriate for Construction type activities.

The following methods were adopted during the conception, design and specification phases to reduce the amount of waste arising during construction:	
Method	Resource saving (quantify if possible)
Steel Frame Construction	Components made off-site
Recycled 6F2 to sub-base of building (Not Piling mat)	Use of Recycled Product
Architectural elements ie. Doors, louvers, glazing + sanitary.	Components made off-site Packaging to be Recycled on site
Envelope offcuts i.e. Brick slips, metal cladding, inner lining + insulation.	Components made off-site Packaging + offcuts to be recycled on site

All personnel will be made aware of the relevant requirements in this Plan at the initial site Induction and in subsequent tool box talks. The Plan will be available in the site office for inspection at any time.

Breathe will ensure that:

- A Waste Coordinator is appointed to drive the waste minimisation culture on this Contract. The Waste Coordinator on this contract is Paul Caldwell
- Each waste stream is identified and appropriate storage and disposal measures provided in line with Duty of Care;
- Comply with the Waste Hierarchy of reduce, re-use, recover, recycle, and disposal as the final option;
- Only when all other routes are exhausted will waste be sent to landfill, accompanied by a Pre-Treatment Confirmation Form;
- Targets for re-use and recycling will be recorded at the start of the contract on the Waste Targets and Monitoring Form and monthly progress towards this monitored;
- Sites in England and Scotland consign Hazardous waste with a Unique Consignment Note number
- The waste is segregated, secured, labelled and disposed of safely and completely;
- Waste Transfer Notes are correctly completed for each consignment of inert or non-hazardous waste;
- Hazardous Waste Consignment Notes are correctly completed for each consignment of hazardous waste;
- Waste contractors' carriers licences and permits are verified with the Environment Agency (copies to be placed in the Contract File);
- The procedures detailed in this Site Waste Management Plan are brought to the notice of all employees and subcontractors' employees; and
-

A summary of all the Duty of Care information required by the Breathe environmental management system is contained in the Waste Predictions and Summary Sheet (Appendix 3). This will be completed for each waste material leaving or entering the site. All supporting documentation will be kept in the Contract Filing System.

Appendix 2 is a checklist of actions that should be completed at the appropriate time in the contract.

2. Legislation / Guidance

- Control of Pollution (Amendment) Act
- Waste (England and Wales) Regulations
- Environmental Protection Act
- The Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations
- Environmental Protection (Duty of Care) Regulations
- Environment Act
- Landfill (England and Wales) Regulations
- Hazardous Waste Regulations
- Environmental Permitting Regulations
- Waste Minimisation in Construction – Site Guide, CIRIA Special Publication 133,
- Waste Management – the Duty of Care, Code of Practice, HMSO
- Landfill (Scotland) Regulations
- Special Waste Amendment (Scotland) Regulations
- Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

3. Definition of Waste

Waste is defined in Article 1 (1) (a) of the Waste Framework Directive (2006/12/EC) and means… 'any substance or object which the holder discards or intends or is required to discard'. All waste that falls within the scope of this definition will be recorded in this SWMP.

'Holder' means 'the producer of the waste or the natural or legal person who is in possession of it'. It rests, in the first place, with the producer or holder of a substance or object to decide whether it is being discarded and is waste.

Waste is widely defined and includes excess unwanted materials, effluents, unwanted surplus substances arising from the application of any process and any substance or article which is broken, worn out, contaminated or otherwise damaged. Waste becomes controlled by legislation when it is discarded by the holder. Materials being returned to the company stores or supplier for credit are not considered as waste. Materials sold for re-use or re-cycling are still classified as waste and subject to all the statutory controls, including Duty of Care.

Waste ceases to be waste once it has achieved 'Final Recovery'. This is when the waste material (in the view of the Regulator) has been incorporated into a final product.

4. Storage and Transportation

Under the Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations, it is a criminal offence for anyone who is not registered as a waste carrier to transport controlled waste. Brreathe is registered as a waste carrier and a copy of the company carrier's licence is attached as Appendix 1.

All waste carriers to be used on the Contract will be listed in the Waste Summary Sheet (Appendix 3). Confirmation will be obtained from the Environment Agency that all carriers' registrations are currently valid, and the evidence filed in the Contract Filing System.

At the site compound the waste will be stored in an appropriate, clearly labelled container. The Waste Coordinator will maximise the recycling opportunities and ensure that waste streams are separated to facilitate this.

Hazardous waste will be sufficiently described to waste contractors to enable them to comply with any labelling etc. requirements under the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations.

All materials brought to site will be stored and handled appropriately to minimise unnecessary wastage. Any site welfare facilities will be equipped with sufficient waste disposal containers for their needs, including recycling containers for plastic and cans.

Sewage from welfare facilities and site toilets is connected into the existing drainage system.

5. Disposal of Waste

Any waste which cannot be used on site will be recycled or disposed of off site, via a registered carrier to:-

- A licensed landfill site; or
- A licensed transfer station; or
- A licensed recycling facility; or
- An exempt site.

Every proposed destination site will be checked to ensure that a valid permit or waste exemption has been issued by the Environment Agency for the type of waste to be received. Copies of the relevant licences shall be obtained and filed in the Contract Filing System.

To further comply with Breathe's Duty of Care, if there are any suspicions regarding the waste contractor, the Contract Team will confirm that the waste is being taken to the site agreed with the Carrier. This may be done by:

- Telephoning the destination site to confirm arrival;
- Receiving written confirmation of receipt from the destination site;
- Timing the carrier's return trips; and/or
- Following a load and taking photographs as necessary.

Any actions from the above list will be recorded in the Contract Filing System.

Any illegal activities will be dealt with immediately by notification to the Environment Agency..

In addition, Breathe will be acting as a registered broker for waste generated by their sub-contractors. A copy of the combined Carrier's or Brokers Licence is attached as Appendix 1.

The disposal of non-hazardous and inert waste will be covered by a fully completed Breathe Waste Transfer Note.

Disposal of hazardous waste is strictly controlled by separate legislation in England and Wales. The Hazardous Waste Regulations contain a revised definition of what constitutes Hazardous Waste. Every site in Wales registers with Natural Resources Wales as a producer of hazardous waste and obtains a premises code for use on all Consignment Notes and the premises code issued shall be noted in the Waste Summary Table (Annex 4).

Sites in England and Scotland will note their Unique Consignment Note number in the Waste Predications and Summary Sheet (Appendix 3).

Every movement of waste must be accompanied by a Transfer Note, or, in the case of Hazardous Waste, a Consignment Note. These will be retained, filed and held at the site office. Waste Transfer Notes will be retained for at least two years and Consignment Notes for three years as required by legislation. Completed Waste Transfer Notes and Consignment Notes will be filed in the Contract Filing System.

All Transfer and Consignment Notes should show that the waste hierarchy has been considered prior to the disposal of waste.

The Waste Co-ordinator will be responsible for ensuring the skips are checked regularly and the contents disposed of correctly, and for keeping all relevant Hazardous Waste Consignment Notes and Waste Transfer Notes for filing.

6. Potential Wastes and Management Options

At the start of the contract, the Contract team will anticipate the different waste streams and estimate the quantities to be re-used, recycled or disposed of. This data will be recorded in the Waste Predictions and Summary Sheet containing the initial targets set for re-using and recycling the different waste streams, is to be printed and filed in paper form as Appendix 3 to this Plan.

As a minimum, each month, the actual waste figures for the previous period will be updated. A record sheet will be filed with the Waste Targets and Monitoring Form with this SWMP.

7. Completion of Work

Within three months of the contract completion the project team must:

- Review actual waste vs predicted quantities;
- Identify any deviations away from the plan with explanation;
- Identify any cost savings; and
- Identify lessons learnt that can be communicated to the wider business

The Declaration of Conformity (Appendix 4) is signed by the Project Manager.

Appendix 1 - Copy of Waste Carrier's/Broker's Licence

Certificate of Registration under the Waste (England and Wales) Regulations 2011

Regulation authority

Name	Environment Agency
Address	National Customer Service Centre 99 Parkway Avenue Sheffield S9 4WF
Telephone number	03708 506506

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011.

Carriers details

Name of registered carrier	Breathe Energy Limited
Registered as	an upper tier waste broker and dealer
Registration number	CBDU253496
Address of place of business	13 A Tottenham Mews London W1T 4AQ
Telephone number	07841017625
Date of registration	Tuesday 4th September 2018
Expiry date of registration (unless revoked)	Saturday 4th September 2021

Making changes to your registration

Your registration will last 3 years and will need to be renewed after this period. If any of your details change, you must notify us within 28 days of the change.

Appendix 2 - Site Waste Management Plan Checklist

This Checklist should be completed by the person responsible for producing the Site Waste Management Plan. If waste is being managed to sufficient standards, the contract should be able to answer 'yes' to all questions.

Questions to consider	Tick if 'Yes'	Comment: If 'yes', what action have you taken/do you propose to take? If 'no', why not?
Questions 1-21 to be completed before work on site begins		
1. Have you read and understood the company Policies?	Yes	Appoint a Waste Co-ordinator
2. Have relevant sub-contractors producing significant waste streams been identified and their competence verified?	Yes	On this contract Breathe will be providing skips through competent waste management companies.
3. Has a careful evaluation of materials been made so that over-ordering and site wastage is reduced?	Yes	Breathe not supplying materials, but subcontractors are contracted to conform with Breathe Policies.
4. Have areas suitable for all components and materials been identified to prevent damage during storage?	Yes	Clear defined storage areas will be identified.
5. Has full consideration been given to the use of secondary and recycled materials?	Yes	Recycled 6F2 to be used as sub-base under Structure.
6. Is unwanted packaging to be returned to the supplier for recycling or re-use?	Yes	Sub-contractors to assist.
7. Can unused materials be returned to purchaser or used on another job?	Yes	Will be managed through subcontractors
8. Has a 'Waste Co-Ordinator' with responsibility for waste management planning and compliance with environmental legislation been assigned?	Yes	Paul Caldwell
9. Has a contract programme been developed to include likely waste arising's?	No	Action Required
10. Has an area of the site been designated for waste management, including segregation of waste?	Yes	Skips to be placed in storage compound.
11. Have targets been set for the different types of waste likely to arise from the contract? Giving due consideration to the waste hierarchy	No	Action required
12. Have measures been put in place to deal with expected (and unexpected) hazardous waste?	Yes	Asbestos to be removed by specialist contractors.
13. Has disposal of liquid wastes such as wash-down water and sewage been considered?	No	Once contractor appointed formulate Risk Assessment and agreed action.
14. Have opportunities been considered for re-use of materials on-site?	No	Action required
15. Have opportunities been considered for re-use of materials off-site?	Yes	Any un-recycled waste will be sent to waste to power plant.
16. Have opportunities been considered for on-site processing and re-use of materials?	No	Not adequate space.
17. Have opportunities been considered for reprocessing materials off-site?	Yes	Managed through Waste management company

Questions to consider	Tick if 'Yes'	Comment: If 'yes', what action have you taken/do you propose to take? If 'no', why not?
18. Have you identified the most appropriate sites for disposal of residual waste (non-hazardous and hazardous) from the contract?	Yes	Managed through waste management company
19. Do any of the planned waste activities require a environmental permit or an exemption to be registered?	No	Not a requirement
20. Have copies of all relevant duty of care documentation and other waste related legal documents been obtained and referenced on the Waste Summary Table	Yes	Maintained in waste Predictions summary sheet.
21. Have toolbox talks been planned for all site personnel about waste management on-site?	Yes	Forms part of main induction. TBT will be carried out when Site established and when waste is significantly being produced.
Questions 22-29 must be completed during the delivery of the contract on site		
22. Are selected waste materials segregated to allow best value to be obtained from good waste management practices?	Yes	Inert waste (Rubble) from breaking out/ demolition, and ferrous materials will be segregated.
23. Are containers/skips clearly labelled to avoid confusion?	Yes	Will be when set-up
24. Is the waste being stored securely to prevent any losses, in particular of hazardous substances?	Yes	Plan shows fenced compound. General waste in locked skip
25. Are Duty of Care procedures complied with, including provision of transfer/consignment notes and checking authorisation of registered carriers, registered exempt sites and licensed waste management facilities?	Yes	Site waste management plan and co-ordinator.
26. Are any checks made that waste is received at the intended site?	No	Future action once works ongoing.
27. Is implementation of agreed waste management procedures monitored?	Yes	Jelf Visit Monthly
28. Are reports regularly produced regarding waste quantities and treatment/disposal routes, and on costs incurred?	Yes	Monthly Reports to be reviewed and filed with this plan.
Questions 30-32 to be completed once operational activity on site is complete		
30. Has a final report of the use of recycled and secondary materials, waste reduction, segregation, recovery and disposal, with costs and savings identified, been completed? *(see section 7 and Appendix 6).*		
31. Have key waste management issues been considered for action at future contracts?		
32. What lessons have been learnt and communicated within the company?		

Appendix 3 - Waste Predictions and Summary Sheet

<< Insert completed form Waste Predictions and Summary Sheet >>

Appendix 4 - Declaration of Conformity

This 'Declaration of Conformity' must be completed within three months of contract completion.

Comparison to Predictions

The 'Predictions' and 'Totals' pages of the Waste Targets and Monitoring Sheet should be filed in this section once completed to allow a comparison of the estimated quantities of each waste type against the actual quantities produced.

Deviations from the Plan

<< All measures documented within this Site Waste Management Plan have been adhered to throughout this Contract.

or

If any of the measures within this Site Waste Management Plan have not been adhered to, provide an explanation why not here: >>.

Estimate of Cost Savings

Estimate any cost savings achieved by completing and implementing this Plan e.g. actual waste costs compared to predicted costs.

Waste Types	Tonnes	Cost	
		Predicted	Actual
Inert			
Non-Hazardous			
Hazardous			

We confirm that this Plan has been monitored on a regular basis and revised and updated as necessary.

Name:		Signature:		Date:	
Position:		Company:			

SSIP SAFETY SCHEMES IN PROCUREMENT

FOUNDER MEMBER

CHAS®

CERTIFICATE OF ACCREDITATION

This is to certify that

Breathe Energy Ltd

is accredited within the Contractors Health and Safety Assessment Scheme (CHAS) having demonstrated compliance with and sound management of current health and safety legislation.

CHAS® ACCREDITED

VALID UNTIL 14 MARCH 2019

020 8545 3838

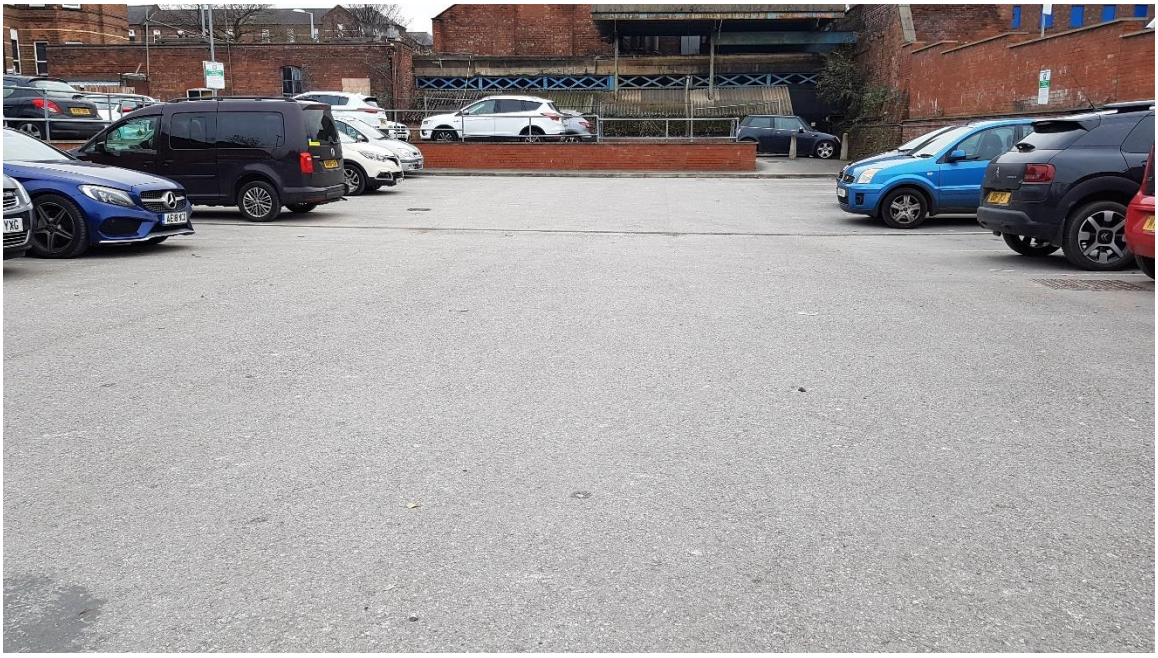
CHAS.co.uk


3050E
3000E
3050N
3000N
1050N
1000N
950N
900N
CENTRAL DRIVE
BRICK WALL H2.5
BRICK WALL H1.10
GABBIE FENCE H1.0.5
PIPE RACK H 6.0
CONC. STEEL WALKWAY
SHRUBS/TREES
GRASS
GRAVEL
TARMAC
PAVING
BUSH
STUMP
SIGN
BENCH
BIN
LIGHT POLE
TREE
MANHOLE
GULLY
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The Pennine Acute Hospitals NHS Trust

BREATHE



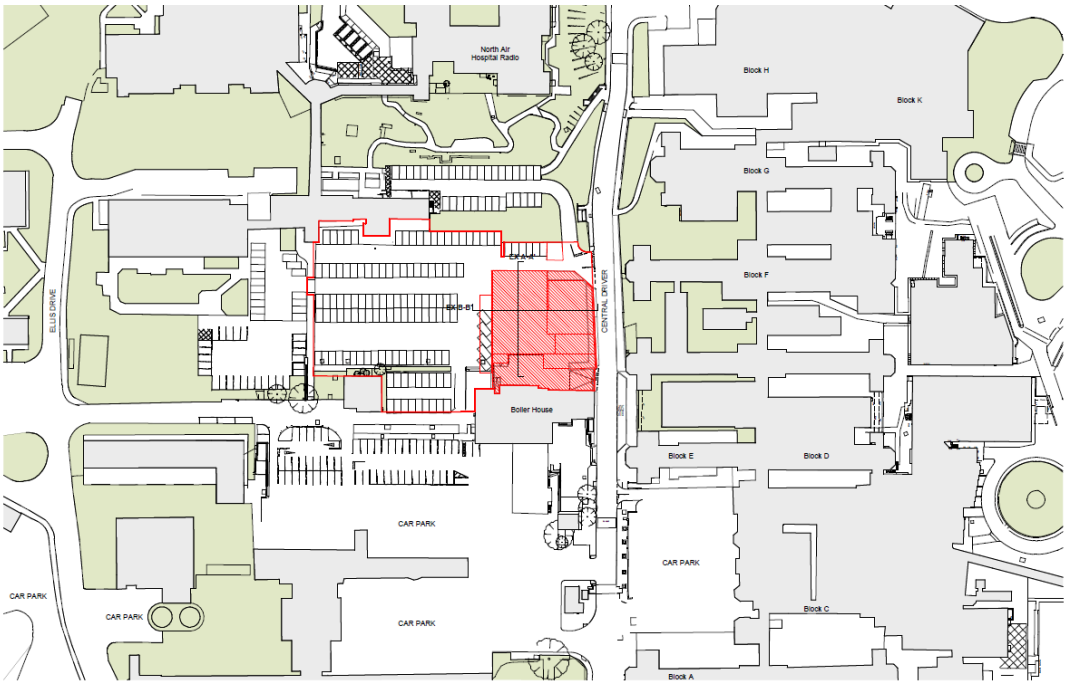


NMGH – Energy Centre

DUST IMPACT ASSESSMENT

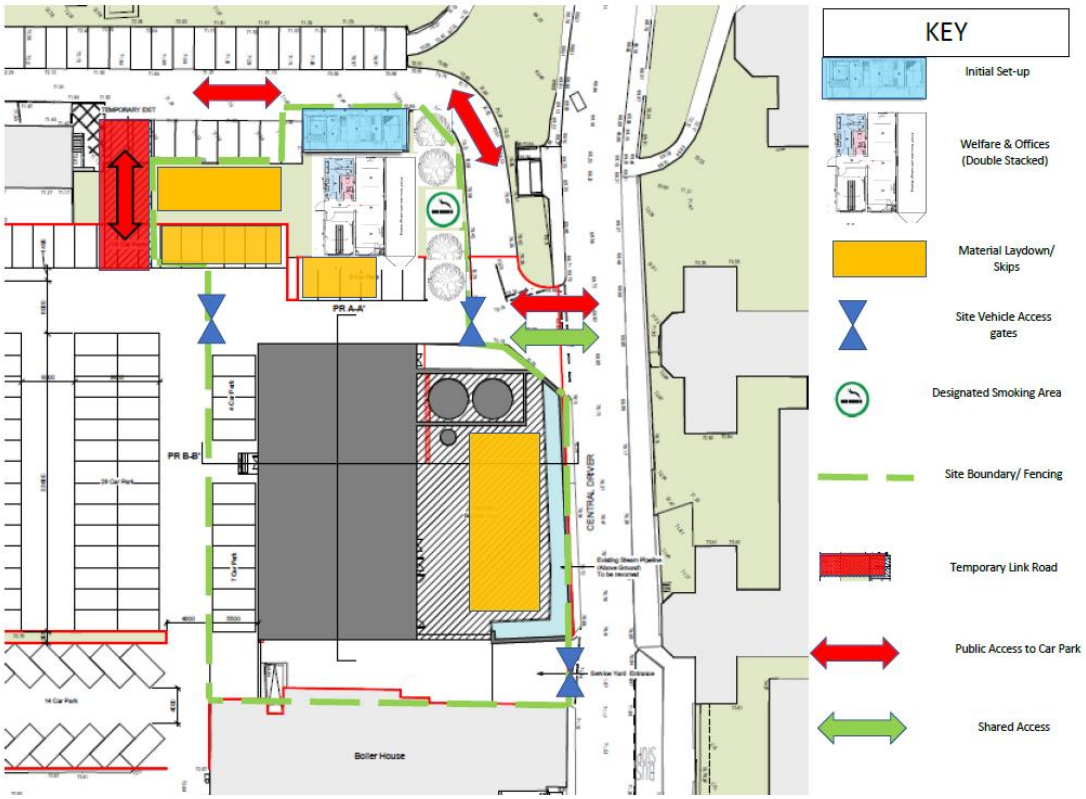
Assessor: Wayne Frankland | Project Manager | January 2019

PLAN- Surrounding Buildings & Logistics



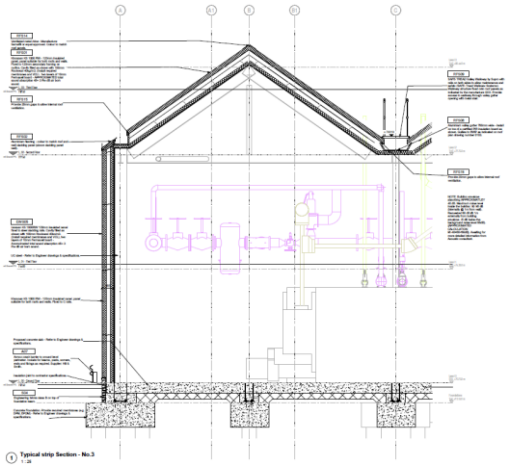
NMGH Proposed Site Logistics Plan

BREATHE



DESCRIPTION

The project consists of a New Build Energy Centre including CHP combi-steam boiler provision at North Manchester General Hospital. The footprint of the building is 544 m2 with a volume of 3825 m3. There are some external groundworks and service installations to feed the new Energy Centre. The Project is being built in an existing car park of the hospital and the site will use the existing Tarmacadam approach roads. Beneath the hard surfaces and sub-base we would expect the find loamy and clayey soils.



KEY POINTS/ ISSUES

- The Construction will be Steel frame on CFA pile cap foundations, with cladded elevations and roofing. Ground floor and mezzanine floor will be in-situ ready mix concrete.
- There is minimal demolition in the removal of small retaining walls and above ground steam pipework.
- To be built in the grounds of an existing live Hospital within an existing Tarmacadam car park and adjacent to existing hospital buildings, roads and footpaths.
- According to landis.org.uk/soilscapes the soil type for M8 5RB will be Loamy and Clayey
- Area has an average annual rainfall of 1118.6mm. This is Higher than Average and will assist in keeping dust particles down.

Rainfall (mm)			
20%	Average	80%	
61.2	112.2	177.4	Jan
45.6	83.0	123.1	Feb
46.3	92.2	135.4	Mar
36.9	70.5	95.5	Apr
33.4	62.8	98.0	May
40.9	77.9	114.0	Jun
48.5	79.7	106.4	Jul
55.7	91.8	125.9	Aug
60.1	92.6	133.2	Sep
62.4	119.3	165.5	Oct
67.3	114.5	155.3	Nov
82.7	122.3	148.2	Dec
-	1118.6	-	Annual

ASSESSMENT

STEP 1 – SCREEN REQUIRMENT FOR A MORE DETAILED ASSESSMENT

There are existing human receptors within 350m by means of the existing hospital buildings and a public highway within 50m. There are zero ecological receptors within 500m of the site boundary. The Trust will expect a high level of appearance and dust control on site for aesthetics and to prevent dust to adjacent areas where sensitive patients may be sited.

Summary: A detailed assessment is required to determine potential dust impacts to human receptors. Ecological receptors are negligible.

STEP 2 – ASSESS THE RISK OF DUST IMPACTS

Demolition Assessment of Dust Impacts

The only demolition to take place is the removal of some existing brickwork retaining walls which will be removed as part of the earthworks cut & fill.

Dust Emissions Magnitude: Small

Although the scale of the work is very small, the works will be carried out within 20m and 50m of receptors of the car park and hospital building's respectively (1-10 Receptors) with a further 10-100 receptors within 350m. However, this will be carried out in the early stages of the contract over a period of approximately 2 weeks. We also need to consider that the risk to human health his higher than usual due to the probability of interfacing with patients with low-immune systems that may be susceptible to dust.

Sensitivity of the Area: Medium

Using table 6 from IAQM guidance, the Assessor therefore 'Defines the Risk of Impacts' from demolition as Low Risk.

Table 6: Risk of Dust Impacts - Demolition

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Medium Risk
Medium	High Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible

Earthworks Assessment of Dust Impacts

The total area within the site boundary is less than 2500 m2 but the soils are loamy and clayey which are at the small to medium end when it comes to dust particle size, although at peak there will be less than 2No heavy earth moving vehicles each day. Any bunds/ stockpiles that are to be formed will be less than 4m high and the total material moved will be less than 20,000 tons.

Dust Emissions Magnitude: Small

The scale is small but carried out over a period of months over spring and summer. The Earthworks will be carried out within 20m and 50m of receptors of the car park and hospital building's respectively (1-10 Receptors) with a further 10-100 receptors within 350m. We also need to consider that the risk to human health is higher than usual due to the probability of interfacing with patients with low-immune systems that may be susceptible to dust.

Sensitivity of the Area: Medium

Using table 7 from IAQM guidance, the Assessor therefore 'Defines the Risk of Impacts' from Earthworks as Low Risk.

Table 7: Risk of Dust Impacts - Earthworks

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Low Risk	Low Risk	Negligible

Construction Assessment of Dust Impacts

Naturally spoil from piling operations will be created, however as the piling technique will be CFA, where the concrete displaces the soil in one operation with bentonite added creates a slurry. This reduces the amount of soil dust going airborne.

There will be no concrete or mortar batching on site and all will be delivered ready mix.

There will be a requirement to break or cut channels into existing Tarmacadam to allow piling and drainage construction, but guidelines concerning dust exposure limits to operatives will be followed i.e. water dust suppression.

There will be a requirement to import approx. 300 m3 of Sub-base which will need laying and tracked with onsite vehicles.

Once the Sub-structure is complete the remainder of the building is constructed by methods which generate relatively low levels of dust emissions i.e. steel frame, cladding panels, roof sheets.

Dust Emissions Magnitude: Medium

The building construction will be complete within 1 year but within 20m and 50m of receptors of the car park and hospital building's respectively (1-10 Receptors) with a further 10-100 receptors within 350m. We also need to consider that the risk to human health is higher than usual due to the probability of interfacing with patients with low-immune systems that may be susceptible to dust.

Sensitivity of the Area: Medium

Using table 8 from IAQM guidance, the Assessor therefore 'Defines the Risk of Impacts' from Construction as Low Risk.

Table 8: Risk of Dust Impacts - Construction

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Low Risk	Low Risk	Negligible

Trackout Assessment of Dust Impacts

All Haul roads within and external to the site are formed of existing Tarmacadam so a low potential for dust release. At peak there will be less than 10No HDV outward movements in anyone day. However approx. 300 m3 of imported sub-base being delivered to site.

Dust Emissions Magnitude: Medium

However, the central road which the site is located means the HDV vehicles leaving site drive down past the main entrance and onto public roads and highways there will be over 100 receptors within a 20m proximity of the trackout operation. We also need to consider that the risk to human health is higher than usual due to the probability of interfacing with patients with low-immune systems that may be susceptible to dust.

Sensitivity of the Area: High

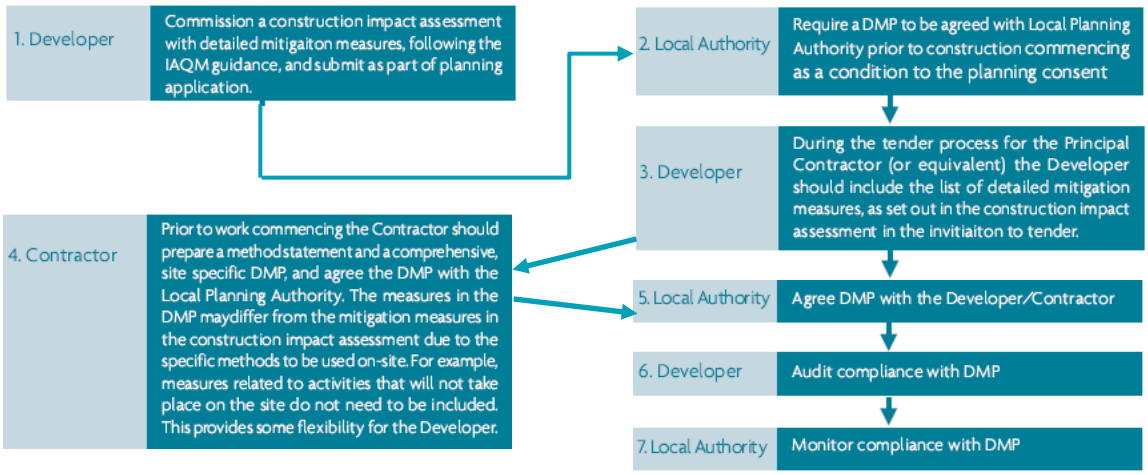
Using table 8 from IAQM guidance, the Assessor therefore 'Defines the Risk of Impacts' from Construction as Medium Risk.

Table 9: Risk of Dust Impacts - Trackout

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Low Risk	Negligible
Low	Low Risk	Low Risk	Negligible

STEP 3 – SITE-SPECIFIC MITIGATION

The below flow chart shows the responsibilities of stakeholder as set out in IAQM guidance for dust mitigation for demolition and construction sites (Note: 'Construction' also includes demolition and earth works). For the purpose of NMGH Breathe Ltd will take on the role of developer and contractor with regards Dust mitigation.



As the Project has defined the risk of impact of some activities to be medium risk, the IAQM guidance advised that the General Activities will be classed medium risk and that the Mitigation measures put in place will be identified and managed on this basis.

The below tables identify the recommended actions as set out in IAQM Guidance. The measures in Red have been deemed N/A by the Assessor for this contact. Green is action to be taken relative to risk.

Key to tables:

H	Highly recommended -Will be actioned and implemented via Construction Phase H&S Plan
D	Desirable -Will be reviewed and actioned where reasonably practicable via Construction Phase H&S Plan
N	Not required -Not required to be actioned but will be monitored and reviewed

Mitigation for all sites: Communications

Mitigation measure	Low Risk	Medium Risk	High Risk
1. Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	N	H	H
2. Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager.	H	H	H
3. Display the head or regional office contact information	H	H	H

Mitigation for all sites: Dust Management

Mitigation measure	Low Risk	Medium Risk	High Risk
4. Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the Local Authority. The level of detail will depend on the risk, and should include as a minimum the highly recommended measures in this document. The desirable measures should be included as appropriate for the site. In London additional measures may be required to ensure compliance with the Mayor of London's guidance. The DMP may include monitoring of dust deposition, dust flux, real-time PM10 continuous monitoring and/or visual inspections.	D	H	H
Site Management			
5. Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.	H	H	H
6. Make the complaints log available to the local authority when asked.	H	H	H
7. Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site, and the action taken to resolve the situation in the log book.	H	H	H
8. Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/ deliveries which might be using the same strategic road network routes.	N	N	H
Monitoring			
9. Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with cleaning to be provided if necessary.	D	D	H
10. Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked	H	H	H
11. Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.	H	H	H
12. Agree dust deposition, dust flux, or real-time PM_{10} continuous monitoring locations with the Local Authority. Where possible commence baseline monitoring at least three months before work commences on site or, if it a large site, before work on a phase commences. Further guidance is provided by IAQM on monitoring during demolition, earthworks and construction.	N	H	H
Preparing and maintaining the site			
13. Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.	H	H	H
14. Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.	H	H	H
15. Fully enclose site or specific operations where there is a high potential for dust production and the site is actives for an extensive period	D	H	H
16. Avoid site runoff of water or mud.	H	H	H
17. Keep site fencing, barriers and scaffolding clean using wet methods.	D	H	H

Mitigation measure	Low Risk	Medium Risk	High Risk
18. Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.	D	H	H
19. Cover, seed or fence stockpiles to prevent wind whipping.	D	H	H
Operating vehicle/machinery and sustainable travel			
20. Ensure all on-road vehicles comply with the requirements of the London Low Emission Zone and the London NRMM standards, where applicable	H	H	H
21. Ensure all vehicles switch off engines when stationary - no idling vehicles.	H	H	H
22. Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.	H	H	H
23. Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on un-surfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate)	D	D	H
24. Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.	N	H	H
25. Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing)	N	D	H
Operations			
26. Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.	H	H	H
27. Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.	H	H	H
28. Use enclosed chutes and conveyors and covered skips.	H	H	H
29. Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	H	H	H
30. Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	D	H	H
Waste management			
31. Avoid bonfires and burning of waste materials.	H	H	H

Measures specific to demolition

Mitigation measure	Low Risk	Medium Risk	High Risk
32. Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).	D	D	H
33. Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.	H	H	H
34. Avoid explosive blasting, using appropriate manual or mechanical alternatives.	H	H	H
35. Bag and remove any biological debris or damp down such material before demolition.	H	H	H

Measures specific to earthworks

Mitigation measure	Low Risk	Medium Risk	High Risk
36. Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable..	N	D	H
37. Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable	N	D	H
38. Only remove the cover in small areas during work and not all at once	N	D	H

Measures specific to construction

Mitigation measure	Low Risk	Medium Risk	High Risk
39. Avoid scabbling (roughening of concrete surfaces) if possible	D	D	H
40. Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	D	H	H
41. Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	N	D	H
42. For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.	N	D	D

Measures specific to trackout

Mitigation measure	Low Risk	Medium Risk	High Risk
43. Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.	D	H	H
44. Avoid dry sweeping of large areas.	D	H	H
45. Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	D	H	H
46. Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	N	H	H
47. Record all inspections of haul routes and any subsequent action in a site log book.	D	H	H
48. Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.	N	H	H
49. Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).	D	H	H
50. Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	N	H	H
51. Access gates to be located at least 10 m from receptors where possible.	N	H	H

STEP 4 – DERERMINE SIGNIFICANT EFFECTS

Following the mitigation that will be put in place via the construction H&S plan and monitored throughout the contract, the assessor is classing this project as low risk, as demonstrated in the below summary table.

Potential Impact	Risk			
	Demolition	Earthworks	Construction	Trackout
Dust Soiling	Low Risk	Low Risk	Low Risk	Low Risk
Human Health	Low Risk	Low Risk	Low Risk	Low Risk
Ecological	Negligible	Negligible	Negligible	Negligible

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Programme Director
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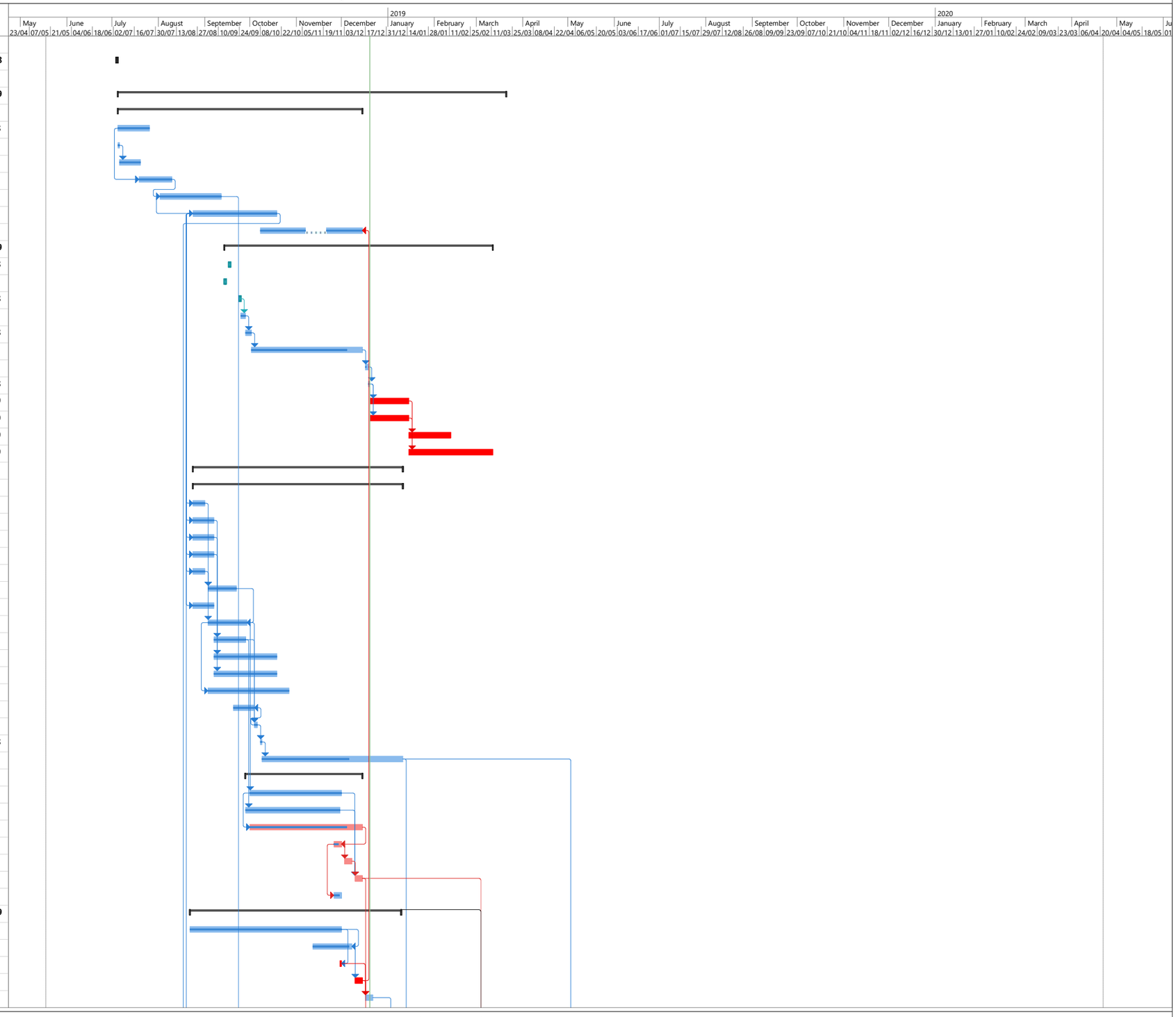
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The Pennine Acute Hospitals NHS Trust

Pennine Acute Trust
North Manchester General & The Royal Oldham Hospitals
Energy Performance Contract
Works Programme

BREATHE

ID	Task Mode	Task Name	Duration	Start	Finish
1					
2		**Proposal**	**1 day**	**Wed 04/07/18**	**Wed 04/07/18**
4					
5		**NMGH Detailed Design**	**176 days?**	**Thu 05/07/18**	**Wed 20/03/19**
6		**Preliminary tasks**	**116 days**	**Thu 05/07/18**	**Fri 14/12/18**
7		Breathe lead in	15 days	Thu 05/07/18	Wed 25/07/18
8		Receipt of Asbestos Management report	1 day	Thu 05/07/18	Thu 05/07/18
9		ObtainAsbestos R&D Quotes for Work Areas	10 days	Fri 06/07/18	Thu 19/07/18
10		Collection of further info & review	15 days	Thu 19/07/18	Thu 09/08/18
11		Survey of existing M&E services	28 days	Thu 02/08/18	Tue 11/09/18
12		Production of existing M&E services drawings	40 days	Fri 24/08/18	Thu 18/10/18
13		Infection Control Guidance	40 days	Mon 08/10/18	Fri 14/12/18
14		**Asbestos**	**119 days?**	**Fri 14/09/18**	**Mon 11/03/19**
15		Issue schedule of areas for Trust to strip	1 day	Mon 17/09/18	Mon 17/09/18
16		Issue schedule of areas with no asbestos management report	1 day	Fri 14/09/18	Fri 14/09/18
17		Walk site with Asbestos R&D Survey companies	1 day	Mon 24/09/18	Mon 24/09/18
18		ObtainAsbestos R&D Quotes for Work Areas	3 days	Tue 25/09/18	Thu 27/09/18
19		Appoint R&D Survey Company	2 days	Fri 28/09/18	Mon 01/10/18
20		R&D Survey and report	54 days	Tue 02/10/18	Fri 14/12/18
21		Breathe assessment of R&D survey	2 days	Mon 17/12/18	Tue 18/12/18
22		Breathe to confirm areas of asbestos remedial works require	1 day?	Wed 19/12/18	Wed 19/12/18
23		Trust to engage plantroom ACM removal works where neede	10 days	Thu 20/12/18	Mon 14/01/19
24		Trust to engage other area ACM removal works where neede	10 days	Thu 20/12/18	Mon 14/01/19
25		Plantroom ACM strip and certify clear	20 days	Tue 15/01/19	Mon 11/02/19
26		Other area ACM strip and certify clear	40 days	Tue 15/01/19	Mon 11/03/19
27		**Energy Centre**	**92 days?**	**Fri 24/08/18**	**Thu 10/01/19**
28		**Planning**	**92 days?**	**Fri 24/08/18**	**Thu 10/01/19**
29		Appoint Architect	6 days	Fri 24/08/18	Fri 31/08/18
30		Appoint Structural Engineer	10 days	Fri 24/08/18	Thu 06/09/18
31		Appoint Acoustic Engineer	10 days	Fri 24/08/18	Thu 06/09/18
32		Appoint Air Quality Consultant	10 days	Fri 24/08/18	Thu 06/09/18
33		Appoint Topo Survey Contractor	6 days	Fri 24/08/18	Fri 31/08/18
34		Topo Survey and Produce drawings	15 days	Mon 03/09/18	Fri 21/09/18
35		Develop concept Energy Centre	10 days	Fri 24/08/18	Thu 06/09/18
36		Develop Architectural plans and elevations for planning	20 days	Mon 03/09/18	Fri 28/09/18
37		Structural Input to archectural design	15 days	Fri 07/09/18	Thu 27/09/18
38		Acoustic survey and report	30 days	Fri 07/09/18	Thu 18/10/18
39		Air Quality Assessment and report	30 days	Fri 07/09/18	Thu 18/10/18
40		Ecology assessment and report	40 days	Mon 03/09/18	Fri 26/10/18
41		Access and sustainability report	10 days	Thu 20/09/18	Thu 04/10/18
42		Prepare Planning Application	2 days	Thu 04/10/18	Fri 05/10/18
43		Submit Planning Application	1 day?	Mon 08/10/18	Mon 08/10/18
44		Planning Approval Process	60 days	Tue 09/10/18	Thu 10/01/19
45		**Detail Design**	**56 days**	**Fri 28/09/18**	**Fri 14/12/18**
46		Architectural Design	45 days	Mon 01/10/18	Fri 30/11/18
47		Structural Design	45 days	Fri 28/09/18	Thu 29/11/18
48		MEP Design	55 days	Mon 01/10/18	Fri 14/12/18
49		PAT for comment & review	5 days	Mon 26/11/18	Fri 30/11/18
50		Undertake revisons to design etc	5 days	Mon 03/12/18	Fri 07/12/18
51		Produce tender drawings & specifications	5 days	Mon 10/12/18	Fri 14/12/18
52		D11 CHP produce tender documents	5 days	Mon 26/11/18	Fri 30/11/18
53		**A01 Lighting measure**	**93 days?**	**Wed 22/08/18**	**Wed 09/01/19**
54		Site Survey	73 days	Wed 22/08/18	Fri 30/11/18
55		Produce drawings and specification	20 days	Mon 12/11/18	Fri 07/12/18
56		Trust decision on LED luminaires and areas to progress	1 day?	Fri 30/11/18	Fri 30/11/18
57		PAT for comment & review	5 days	Mon 10/12/18	Fri 14/12/18
58		Undertake revisons to design etc	5 days	Mon 17/12/18	Fri 21/12/18



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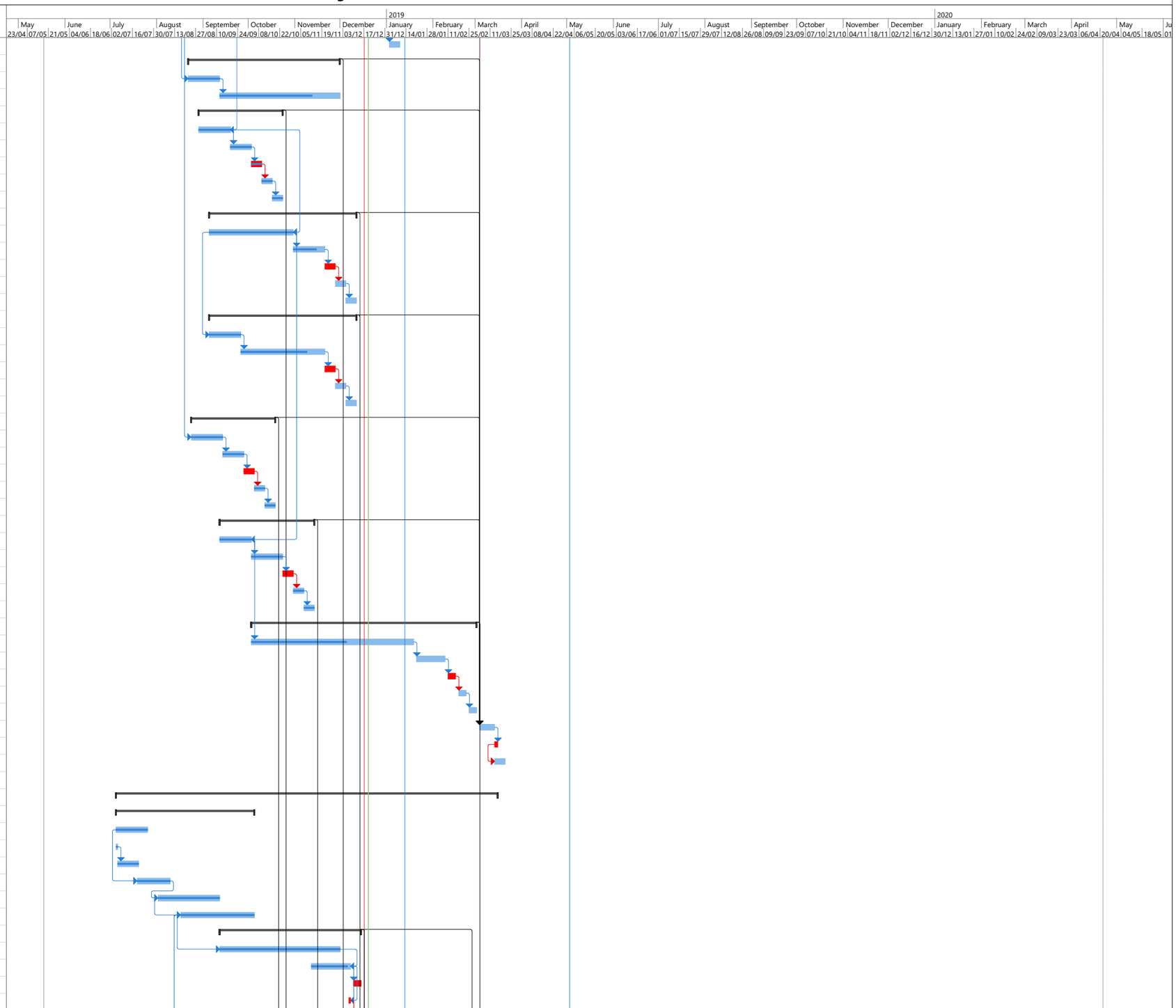
Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

The Pennine Acute Hospitals NHS Trust

Pennine Acute Trust
North Manchester General & The Royal Oldham Hospitals
Energy Performance Contract
Works Programme

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ID	Task Mode	Task Name	Duration	Start	Finish
59		Produce tender drawings & specifications	5 days	Thu 03/01/19	Wed 09/01/19
60		**B11 NMGH High Efficiency AHU Filters**	**73 days**	**Wed 22/08/18**	**Fri 30/11/18**
61		Site Survey	15 days	Wed 22/08/18	Tue 11/09/18
62		Manufacturer to cost replacement filters	58 days	Wed 12/09/18	Fri 30/11/18
63		**B13 NMGH Steam Trap Replacement and repair**	**40 days**	**Wed 29/08/18**	**Tue 23/10/18**
64		Site Survey	15 days	Wed 29/08/18	Tue 18/09/18
65		Produce drawings and specification	10 days	Wed 19/09/18	Tue 02/10/18
66		PAT for comment & review	5 days	Wed 03/10/18	Tue 09/10/18
67		Undertake revisons to design etc	5 days	Wed 10/10/18	Tue 16/10/18
68		Produce tender drawings & specifications	5 days	Wed 17/10/18	Tue 23/10/18
69		**B14 NMGH - Split Unit Controls**	**70 days**	**Wed 05/09/18**	**Tue 11/12/18**
70		Site Survey	40 days	Wed 05/09/18	Tue 30/10/18
71		Produce drawings and specification	15 days	Wed 31/10/18	Tue 20/11/18
72		PAT for comment & review	5 days	Wed 21/11/18	Tue 27/11/18
73		Undertake revisons to design etc	5 days	Wed 28/11/18	Tue 04/12/18
74		Produce tender drawings & specifications	5 days	Wed 05/12/18	Tue 11/12/18
75		**B15 NMGH - Split Unit Replacement**	**70 days**	**Wed 05/09/18**	**Tue 11/12/18**
76		Site Survey	15 days	Wed 05/09/18	Tue 25/09/18
77		Produce drawings and specification	40 days	Wed 26/09/18	Tue 20/11/18
78		PAT for comment & review	5 days	Wed 21/11/18	Tue 27/11/18
79		Undertake revisons to design etc	5 days	Wed 28/11/18	Tue 04/12/18
80		Produce tender drawings & specifications	5 days	Wed 05/12/18	Tue 11/12/18
81		**B17 NMGH - Valve and Pipe Insulation**	**40 days**	**Fri 24/08/18**	**Thu 18/10/18**
82		Site Survey	15 days	Fri 24/08/18	Thu 13/09/18
83		Produce drawings and specification	10 days	Fri 14/09/18	Thu 27/09/18
84		PAT for comment & review	5 days	Fri 28/09/18	Thu 04/10/18
85		Undertake revisons to design etc	5 days	Fri 05/10/18	Thu 11/10/18
86		Produce tender drawings & specifications	5 days	Fri 12/10/18	Thu 18/10/18
87		**C11 NMGH BMS Optimisation**	**45 days**	**Wed 12/09/18**	**Tue 13/11/18**
88		Site Survey	15 days	Wed 12/09/18	Tue 02/10/18
89		Produce drawings and specification	15 days	Wed 03/10/18	Tue 23/10/18
90		PAT for comment & review	5 days	Wed 24/10/18	Tue 30/10/18
91		Undertake revisons to design etc	5 days	Wed 31/10/18	Tue 06/11/18
92		Produce tender drawings & specifications	5 days	Wed 07/11/18	Tue 13/11/18
93		**C12 NMGH BMS Upgrade**	**100 days**	**Wed 03/10/18**	**Fri 01/03/19**
94		Site Survey	70 days	Wed 03/10/18	Fri 18/01/19
95		Produce drawings and specification	15 days	Mon 21/01/19	Fri 08/02/19
96		PAT for comment & review	5 days	Mon 11/02/19	Fri 15/02/19
97		Undertake revisons to design etc	5 days	Mon 18/02/19	Fri 22/02/19
98		Produce tender drawings & specifications	5 days	Mon 25/02/19	Fri 01/03/19
99		Update budgets and produce cost plan	8 days	Mon 04/03/19	Wed 13/03/19
100		Final review & sign off by PAT	2 days	Thu 14/03/19	Fri 15/03/19
101		Incorporate changes into final documentation	5 days	Thu 14/03/19	Wed 20/03/19
102					
103		**TROH Detailed Design**	**173 days?**	**Thu 05/07/18**	**Fri 15/03/19**
104		**Preliminary Tasks**	**65 days**	**Thu 05/07/18**	**Thu 04/10/18**
105		Breathe lead in	15 days	Thu 05/07/18	Wed 25/07/18
106		Receipt of Asbestos Management report	1 day	Thu 05/07/18	Thu 05/07/18
107		ObtainAsbestos R&D Quotes for Work Areas	10 days	Fri 06/07/18	Thu 19/07/18
108		Collection of further info & review	15 days	Thu 19/07/18	Thu 09/08/18
109		Survey of existing M&E services	28 days	Thu 02/08/18	Tue 11/09/18
110		Production of existing M&E services drawings	35 days	Fri 17/08/18	Thu 04/10/18
111		**A01 TROH Lighting measure**	**68 days?**	**Wed 12/09/18**	**Fri 14/12/18**
112		Site Survey	58 days	Wed 12/09/18	Fri 30/11/18
113		Produce drawings and specification	20 days	Mon 12/11/18	Fri 07/12/18
114		PAT for comment & review	5 days	Mon 10/12/18	Fri 14/12/18
115		Trust decision on LED luminaires and areas to progress	1 day?	Fri 07/12/18	Fri 07/12/18



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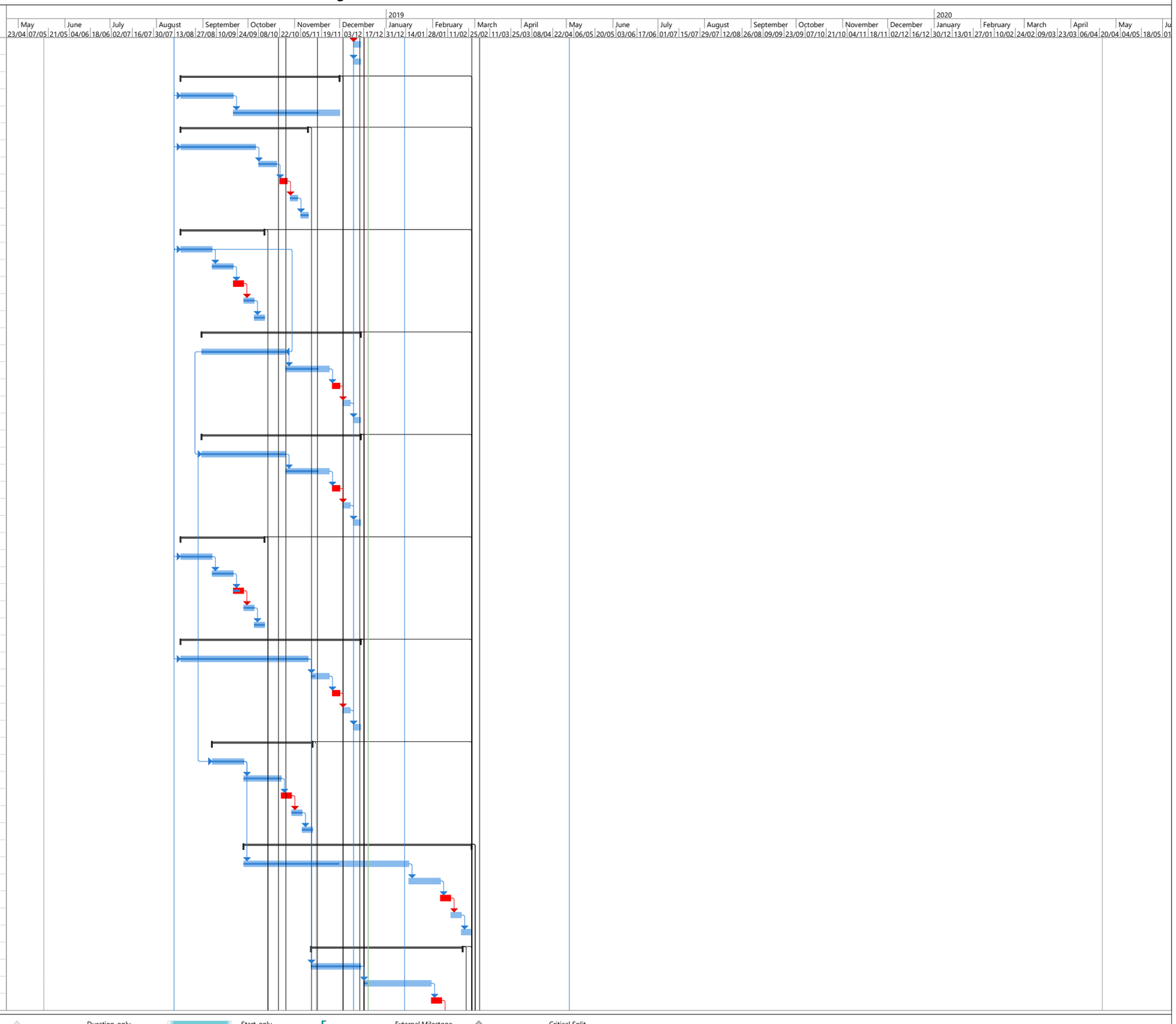
Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

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ID	Task Mode	Task Name	Duration	Start	Finish
116		Undertake revisons to design etc	5 days	Mon 10/12/18	Fri 14/12/18
117		Produce tender drawings & specifications	5 days	Mon 10/12/18	Fri 14/12/18
118		**B01 TROH High Efficiency AHU Filters**	**76 days**	**Fri 17/08/18**	**Fri 30/11/18**
119		Site Survey	25 days	Fri 17/08/18	Thu 20/09/18
120		Manufacturer to cost replacement filters	51 days	Fri 21/09/18	Fri 30/11/18
121		**B02 TROH ECDC motors on AHUs**	**61 days**	**Fri 17/08/18**	**Fri 09/11/18**
122		Site Survey	36 days	Fri 17/08/18	Fri 05/10/18
123		Produce drawings and specification	10 days	Mon 08/10/18	Fri 19/10/18
124		PAT for comment & review	5 days	Mon 22/10/18	Fri 26/10/18
125		Undertake revisons to design etc	5 days	Mon 29/10/18	Fri 02/11/18
126		Produce tender drawings & specifications	5 days	Mon 05/11/18	Fri 09/11/18
127		**B03 TROH Steam Trap Replacement and repair**	**40 days**	**Fri 17/08/18**	**Thu 11/10/18**
128		Site Survey	15 days	Fri 17/08/18	Thu 06/09/18
129		Produce drawings and specification	10 days	Fri 07/09/18	Thu 20/09/18
130		PAT for comment & review	5 days	Fri 21/09/18	Thu 27/09/18
131		Undertake revisons to design etc	5 days	Fri 28/09/18	Thu 04/10/18
132		Produce tender drawings & specifications	5 days	Fri 05/10/18	Thu 11/10/18
133		**B04 TROH - Split Unit Controls**	**76 days**	**Fri 31/08/18**	**Fri 14/12/18**
134		Site Survey	40 days	Fri 31/08/18	Thu 25/10/18
135		Produce drawings and specification	21 days	Fri 26/10/18	Fri 23/11/18
136		PAT for comment & review	5 days	Mon 26/11/18	Fri 30/11/18
137		Undertake revisons to design etc	5 days	Mon 03/12/18	Fri 07/12/18
138		Produce tender drawings & specifications	5 days	Mon 10/12/18	Fri 14/12/18
139		**B05 TROH - Split Unit Replacement**	**76 days**	**Fri 31/08/18**	**Fri 14/12/18**
140		Site Survey	40 days	Fri 31/08/18	Thu 25/10/18
141		Produce drawings and specification	21 days	Fri 26/10/18	Fri 23/11/18
142		PAT for comment & review	5 days	Mon 26/11/18	Fri 30/11/18
143		Undertake revisons to design etc	5 days	Mon 03/12/18	Fri 07/12/18
144		Produce tender drawings & specifications	5 days	Mon 10/12/18	Fri 14/12/18
145		**B07 TROH - Valve and Pipe Insulation**	**40 days**	**Fri 17/08/18**	**Thu 11/10/18**
146		Site Survey	15 days	Fri 17/08/18	Thu 06/09/18
147		Produce drawings and specification	10 days	Fri 07/09/18	Thu 20/09/18
148		PAT for comment & review	5 days	Fri 21/09/18	Thu 27/09/18
149		Undertake revisons to design etc	5 days	Fri 28/09/18	Thu 04/10/18
150		Produce tender drawings & specifications	5 days	Fri 05/10/18	Thu 11/10/18
151		**B08 TROH - Laundry Night Shut Down**	**86 days**	**Fri 17/08/18**	**Fri 14/12/18**
152		Site Survey	61 days	Fri 17/08/18	Fri 09/11/18
153		Produce drawings and specification	10 days	Mon 12/11/18	Fri 23/11/18
154		PAT for comment & review	5 days	Mon 26/11/18	Fri 30/11/18
155		Undertake revisons to design etc	5 days	Mon 03/12/18	Fri 07/12/18
156		Produce tender drawings & specifications	5 days	Mon 10/12/18	Fri 14/12/18
157		**C01 TROH BMS Optimisation**	**47 days**	**Fri 07/09/18**	**Mon 12/11/18**
158		Site Survey	15 days	Fri 07/09/18	Thu 27/09/18
159		Produce drawings and specification	17 days	Fri 28/09/18	Mon 22/10/18
160		PAT for comment & review	5 days	Tue 23/10/18	Mon 29/10/18
161		Undertake revisons to design etc	5 days	Tue 30/10/18	Mon 05/11/18
162		Produce tender drawings & specifications	5 days	Tue 06/11/18	Mon 12/11/18
163		**C02 TROH BMS Upgrade**	**100 days**	**Fri 28/09/18**	**Tue 26/02/19**
164		Site Survey	70 days	Fri 28/09/18	Tue 15/01/19
165		Produce drawings and specification	15 days	Wed 16/01/19	Tue 05/02/19
166		PAT for comment & review	5 days	Wed 06/02/19	Tue 12/02/19
167		Undertake revisons to design etc	5 days	Wed 13/02/19	Tue 19/02/19
168		Produce tender drawings & specifications	5 days	Wed 20/02/19	Tue 26/02/19
169		**D02 TROH Steam Main Rationalisation**	**65 days**	**Mon 12/11/18**	**Wed 20/02/19**
170		Site Survey	25 days	Mon 12/11/18	Fri 14/12/18
171		Produce drawings and specification	25 days	Mon 17/12/18	Wed 30/01/19
172		PAT for comment & review	5 days	Thu 31/01/19	Wed 06/02/19



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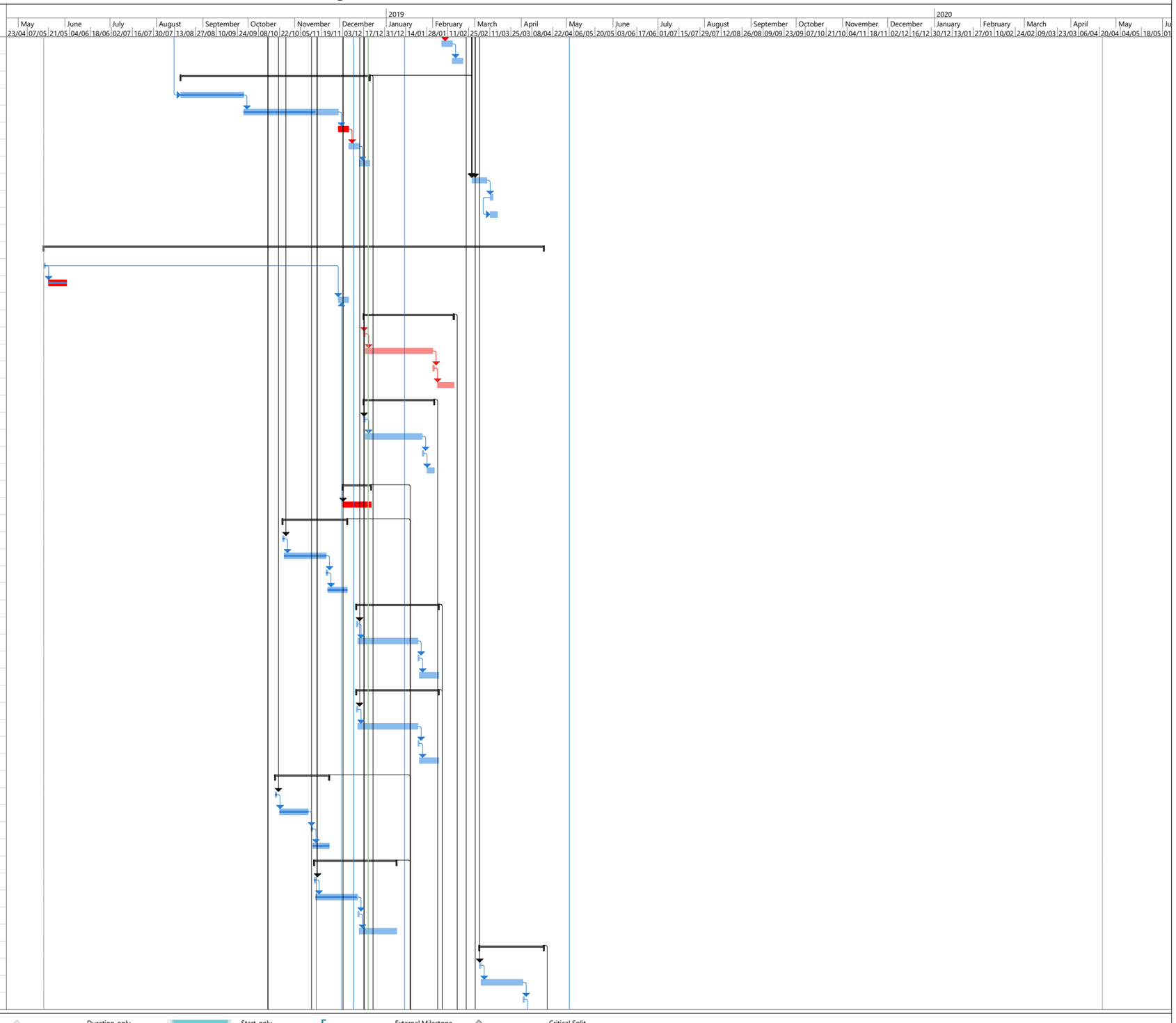
Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

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Pennine Acute Trust
North Manchester General & The Royal Oldham Hospitals
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BREATHE

ID	Task Mode	Task Name	Duration	Start	Finish
173		Undertake revisons to design etc	5 days	Thu 07/02/19	Wed 13/02/19
174		Produce tender drawings & specifications	5 days	Thu 14/02/19	Wed 20/02/19
175		**D02 TROH Steam Main Rationalisation Plantrooms**	**90 days**	**Fri 17/08/18**	**Thu 20/12/18**
176		Site Survey	30 days	Fri 17/08/18	Thu 27/09/18
177		Produce drawings and specification	45 days	Fri 28/09/18	Thu 29/11/18
178		PAT for comment & review	5 days	Fri 30/11/18	Thu 06/12/18
179		Undertake revisons to design etc	5 days	Fri 07/12/18	Thu 13/12/18
180		Produce tender drawings & specifications	5 days	Fri 14/12/18	Thu 20/12/18
181		Update budgets and produce cost plan	8 days	Wed 27/02/19	Fri 08/03/19
182		Final review & sign off by PAT	2 days	Mon 11/03/19	Tue 12/03/19
183		Incorporate changes into final documentation	5 days	Mon 11/03/19	Fri 15/03/19
184					
185		NMGH Procurement	**227 days**	**Fri 18/05/18**	**Mon 15/04/19**
186		Breathe propose tenderers to PAT	1 day	Fri 18/05/18	Fri 18/05/18
187		PAT review and approval	10 days	Mon 21/05/18	Fri 01/06/18
188		Incorporate Works contract into tender pack	5 days	Fri 30/11/18	Thu 06/12/18
189		**Energy Centre**	**36 days**	**Mon 17/12/18**	**Thu 14/02/19**
190		Issue tender documents	1 day	Mon 17/12/18	Mon 17/12/18
191		Tender period including site visits	25 days	Tue 18/12/18	Thu 31/01/19
192		Tender returns and opening	1 day	Fri 01/02/19	Fri 01/02/19
193		Tender analysis report	9 days	Mon 04/02/19	Thu 14/02/19
194		**A01 Lighting measure**	**27 days**	**Mon 17/12/18**	**Fri 01/02/19**
195		Issue tender documents	1 day	Mon 17/12/18	Mon 17/12/18
196		Tender period including site visits	20 days	Tue 18/12/18	Thu 24/01/19
197		Tender returns and opening	1 day	Fri 25/01/19	Fri 25/01/19
198		Tender analysis report	5 days	Mon 28/01/19	Fri 01/02/19
199		**B11 NMGH High Efficiency AHU Filters**	**15 days**	**Mon 03/12/18**	**Fri 21/12/18**
200		Trust to place order	15 days	Mon 03/12/18	Fri 21/12/18
201		**B13 NMGH Steam Trap Replacement and repair**	**31 days**	**Wed 24/10/18**	**Wed 05/12/18**
202		Issue tender documents	1 day	Wed 24/10/18	Wed 24/10/18
203		Tender period including site visits	20 days	Thu 25/10/18	Wed 21/11/18
204		Tender returns and opening	1 day	Thu 22/11/18	Thu 22/11/18
205		Tender analysis report	9 days	Fri 23/11/18	Wed 05/12/18
206		**B14 NMGH - Split Unit Controls**	**31 days**	**Wed 12/12/18**	**Mon 04/02/19**
207		Issue tender documents	1 day	Wed 12/12/18	Wed 12/12/18
208		Tender period including site visits	20 days	Thu 13/12/18	Mon 21/01/19
209		Tender returns and opening	1 day	Tue 22/01/19	Tue 22/01/19
210		Tender analysis report	9 days	Wed 23/01/19	Mon 04/02/19
211		**B15 NMGH - Split Unit Replacement**	**31 days**	**Wed 12/12/18**	**Mon 04/02/19**
212		Issue tender documents	1 day	Wed 12/12/18	Wed 12/12/18
213		Tender period including site visits	20 days	Thu 13/12/18	Mon 21/01/19
214		Tender returns and opening	1 day	Tue 22/01/19	Tue 22/01/19
215		Tender analysis report	9 days	Wed 23/01/19	Mon 04/02/19
216		**B17 NMGH - Valve and Pipe Insulation**	**26 days**	**Fri 19/10/18**	**Fri 23/11/18**
217		Issue tender documents	1 day	Fri 19/10/18	Fri 19/10/18
218		Tender period including site visits	15 days	Mon 22/10/18	Fri 09/11/18
219		Tender returns and opening	1 day	Mon 12/11/18	Mon 12/11/18
220		Tender analysis report	9 days	Tue 13/11/18	Fri 23/11/18
221		**C11 NMGH BMS Optimisation**	**31 days**	**Wed 14/11/18**	**Mon 07/01/19**
222		Issue tender documents	1 day	Wed 14/11/18	Wed 14/11/18
223		Tender period including site visits	20 days	Thu 15/11/18	Wed 12/12/18
224		Tender returns and opening	1 day	Thu 13/12/18	Thu 13/12/18
225		Tender analysis report	9 days	Fri 14/12/18	Mon 07/01/19
226		**C12 NMGH BMS Upgrade**	**31 days**	**Mon 04/03/19**	**Mon 15/04/19**
227		Issue tender documents	1 day	Mon 04/03/19	Mon 04/03/19
228		Tender period including site visits	20 days	Tue 05/03/19	Mon 01/04/19
229		Tender returns and opening	1 day	Tue 02/04/19	Tue 02/04/19



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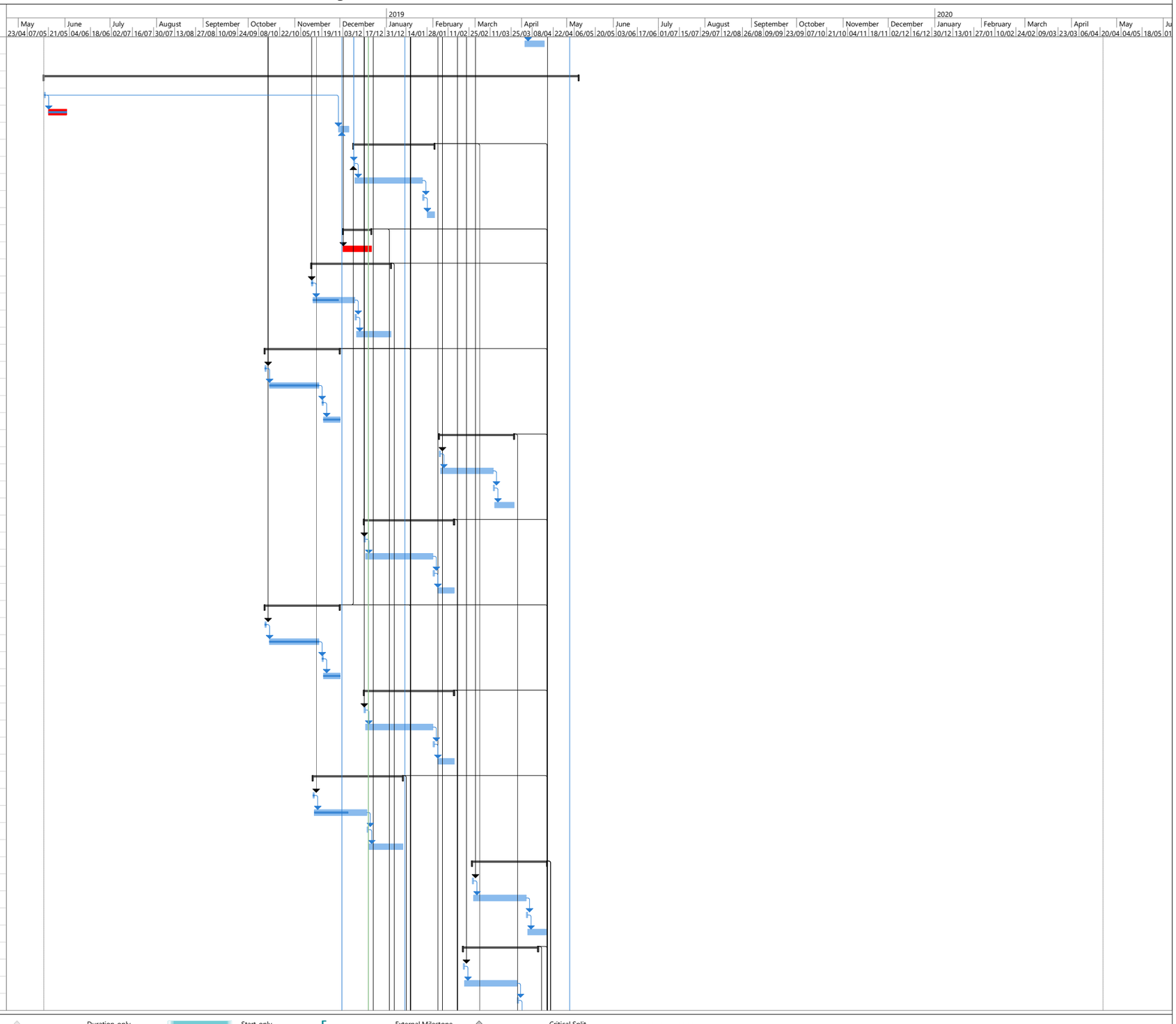
Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
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North Manchester General & The Royal Oldham Hospitals
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ID	Task Mode	Task Name	Duration	Start	Finish
230		Tender analysis report	9 days	Wed 03/04/19	Mon 15/04/19
231					
232		**TROH Procurement**	**241 days**	**Fri 18/05/18**	**Wed 08/05/19**
233		Breathe propose tenderers to PAT	1 day	Fri 18/05/18	Fri 18/05/18
234		PAT review and approval	10 days	Mon 21/05/18	Fri 01/06/18
235		Incorporate Works contract into tender pack	5 days	Fri 30/11/18	Thu 06/12/18
236		**A01 TROH Lighting measure**	**32 days**	**Mon 10/12/18**	**Fri 01/02/19**
237		Issue tender documents	1 day	Mon 10/12/18	Mon 10/12/18
238		Tender period including site visits	25 days	Tue 11/12/18	Thu 24/01/19
239		Tender returns and opening	1 day	Fri 25/01/19	Fri 25/01/19
240		Tender analysis report	5 days	Mon 28/01/19	Fri 01/02/19
241		**B01 TROH High Efficiency AHU Filters**	**15 days**	**Mon 03/12/18**	**Fri 21/12/18**
242		Trust to place order	15 days	Mon 03/12/18	Fri 21/12/18
243		**B02 TROH ECDC motors on AHUs**	**31 days**	**Mon 12/11/18**	**Thu 03/01/19**
244		Issue tender documents	1 day	Mon 12/11/18	Mon 12/11/18
245		Tender period including site visits	20 days	Tue 13/11/18	Mon 10/12/18
246		Tender returns and opening	1 day	Tue 11/12/18	Tue 11/12/18
247		Tender analysis report	9 days	Wed 12/12/18	Thu 03/01/19
248		**B03 TROH Steam Trap Replacement and repair**	**36 days**	**Fri 12/10/18**	**Fri 30/11/18**
249		Issue tender documents	1 day	Fri 12/10/18	Fri 12/10/18
250		Tender period including site visits	25 days	Mon 15/10/18	Fri 16/11/18
251		Tender returns and opening	1 day	Mon 19/11/18	Mon 19/11/18
252		Tender analysis report	9 days	Tue 20/11/18	Fri 30/11/18
253		**B04 TROH - Split Unit Controls**	**36 days**	**Tue 05/02/19**	**Tue 26/03/19**
254		Issue tender documents	1 day	Tue 05/02/19	Tue 05/02/19
255		Tender period including site visits	25 days	Wed 06/02/19	Tue 12/03/19
256		Tender returns and opening	1 day	Wed 13/03/19	Wed 13/03/19
257		Tender analysis report	9 days	Thu 14/03/19	Tue 26/03/19
258		**B05 TROH - Split Unit Replacement**	**36 days**	**Mon 17/12/18**	**Thu 14/02/19**
259		Issue tender documents	1 day	Mon 17/12/18	Mon 17/12/18
260		Tender period including site visits	25 days	Tue 18/12/18	Thu 31/01/19
261		Tender returns and opening	1 day	Fri 01/02/19	Fri 01/02/19
262		Tender analysis report	9 days	Mon 04/02/19	Thu 14/02/19
263		**B07 TROH - Valve and Pipe Insulation**	**36 days**	**Fri 12/10/18**	**Fri 30/11/18**
264		Issue tender documents	1 day	Fri 12/10/18	Fri 12/10/18
265		Tender period including site visits	25 days	Mon 15/10/18	Fri 16/11/18
266		Tender returns and opening	1 day	Mon 19/11/18	Mon 19/11/18
267		Tender analysis report	9 days	Tue 20/11/18	Fri 30/11/18
268		**B08 TROH - Laundry Night Shut Down**	**36 days**	**Mon 17/12/18**	**Thu 14/02/19**
269		Issue tender documents	1 day	Mon 17/12/18	Mon 17/12/18
270		Tender period including site visits	25 days	Tue 18/12/18	Thu 31/01/19
271		Tender returns and opening	1 day	Fri 01/02/19	Fri 01/02/19
272		Tender analysis report	9 days	Mon 04/02/19	Thu 14/02/19
273		**C01 TROH BMS Optimisation**	**36 days**	**Tue 13/11/18**	**Fri 11/01/19**
274		Issue tender documents	1 day	Tue 13/11/18	Tue 13/11/18
275		Tender period including site visits	25 days	Wed 14/11/18	Tue 18/12/18
276		Tender returns and opening	1 day	Wed 19/12/18	Wed 19/12/18
277		Tender analysis report	9 days	Thu 20/12/18	Fri 11/01/19
278		**C02 TROH BMS Upgrade**	**36 days**	**Wed 27/02/19**	**Wed 17/04/19**
279		Issue tender documents	1 day	Wed 27/02/19	Wed 27/02/19
280		Tender period including site visits	25 days	Thu 28/02/19	Wed 03/04/19
281		Tender returns and opening	1 day	Thu 04/04/19	Thu 04/04/19
282		Tender analysis report	9 days	Fri 05/04/19	Wed 17/04/19
283		**D02 TROH Steam Main Rationalisation**	**36 days**	**Thu 21/02/19**	**Thu 11/04/19**
284		Issue tender documents	1 day	Thu 21/02/19	Thu 21/02/19
285		Tender period including site visits	25 days	Fri 22/02/19	Thu 28/03/19
286		Tender returns and opening	1 day	Fri 29/03/19	Fri 29/03/19



Project: PAT Phase 2 Programm
Date: Thu 20/12/18

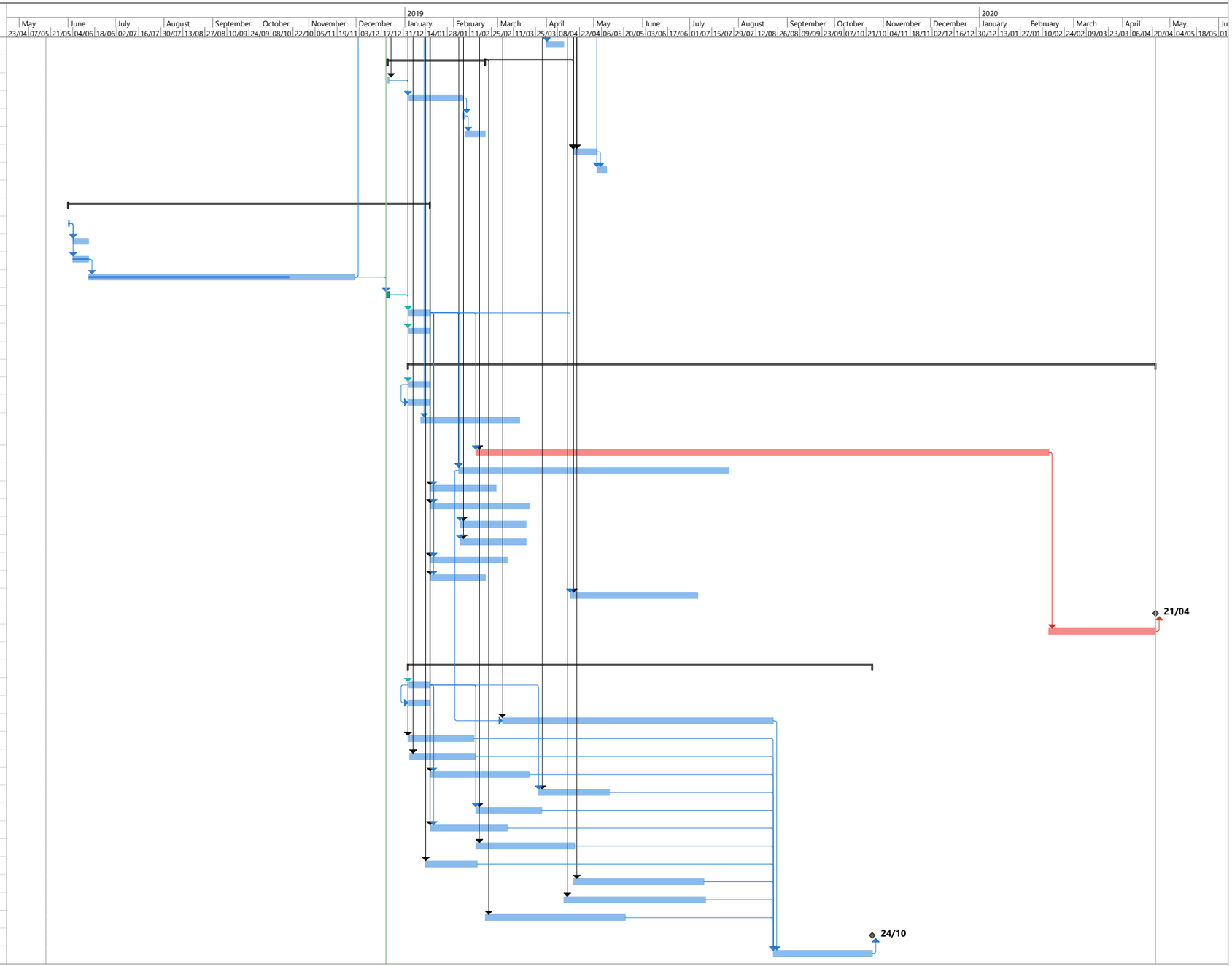
Task	Summary	Inactive Milestone	Duration-only	Start-only	External Milestone	Critical Split
Split	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Deadline	Progress
Milestone	Inactive Task	Manual Task	Manual Summary	External Tasks	Critical	Manual Progress

The Pennine Acute Hospitals NHS Trust

Pennine Acute Trust
North Manchester General & The Royal Oldham Hospitals
Energy Performance Contract
Works Programme

BREATHE

ID	Task Mode	Task Name	Duration	Start	Finish
287		Tender analysis report	9 days	Mon 01/04/19	Thu 11/04/19
288		**D02 TROH Steam Main Rationalisation Plantrooms**	**36 days**	**Fri 21/12/18**	**Wed 20/02/19**
289		Issue tender documents	1 day	Fri 21/12/18	Fri 21/12/18
290		Tender period including site visits	25 days	Thu 03/01/19	Wed 06/02/19
291		Tender returns and opening	1 day	Thu 07/02/19	Thu 07/02/19
292		Tender analysis report	9 days	Fri 08/02/19	Wed 20/02/19
293		Tender analysis report	9 days	Thu 18/04/19	Thu 02/05/19
294		PAT review and approval of recommendations	3 days	Fri 03/05/19	Wed 08/05/19
295					
296		**Contracts & commercials (Works Contract)**	**154 days**	**Fri 01/06/18**	**Wed 16/01/19**
297		Breathe issue draft Audit Service Agreement (ASA) Variation	1 day	Fri 01/06/18	Fri 01/06/18
298		Agree and execute ASA Variation	8 days	Mon 04/06/18	Wed 13/06/18
299		Produce draft Works Contract	8 days	Mon 04/06/18	Wed 13/06/18
300		Negotiate Works Contract	119 days	Thu 14/06/18	Thu 29/11/18
301		Execute Works Contract	1 day	Fri 21/12/18	Fri 21/12/18
302		Agree NMGH sub-contracts	10 days	Thu 03/01/19	Wed 16/01/19
303		Agree TROH sub-contracts	10 days	Thu 03/01/19	Wed 16/01/19
304					
305		**NMGH Construction**	**322 days**	**Thu 03/01/19**	**Tue 21/04/20**
306		Breathe mobilise construction	10 days	Thu 03/01/19	Wed 16/01/19
307		Dilapidation surveys	10 days	Thu 03/01/19	Wed 16/01/19
308		Energy Centre Ground preparation and column base forming (Safe)	45 days	Fri 11/01/19	Thu 14/03/19
309		Energy Centre	245 days	Fri 15/02/19	Thu 13/02/20
310		A01 Lighting measure	120 days	Mon 04/02/19	Thu 25/07/19
311		B11 NMGH High Efficiency AHU Filters	30 days	Thu 17/01/19	Wed 27/02/19
312		B13 NMGH Steam Trap Replacement and repair	45 days	Thu 17/01/19	Wed 20/03/19
313		B14 NMGH - Split Unit Controls	30 days	Tue 05/02/19	Mon 18/03/19
314		B15 NMGH - Split Unit Replacement	30 days	Tue 05/02/19	Mon 18/03/19
315		B17 NMGH - Valve and Pipe Insulation	35 days	Thu 17/01/19	Wed 06/03/19
316		C11 NMGH BMS Optimisation	25 days	Thu 17/01/19	Wed 20/02/19
317		C12 NMGH BMS Upgrade	55 days	Tue 16/04/19	Fri 05/07/19
318		Practical completion	0 days	Tue 21/04/20	Tue 21/04/20
319		ECM Fine tuning and adjustment	46 days	Fri 14/02/20	Tue 21/04/20
320					
321		**TROH Construction**	**206 days**	**Thu 03/01/19**	**Thu 24/10/19**
322		Breathe mobilise construction	10 days	Thu 03/01/19	Wed 16/01/19
323		Dilapidation surveys	10 days	Thu 03/01/19	Wed 16/01/19
324		A01 TROH Lighting measure	120 days	Mon 04/03/19	Thu 22/08/19
325		B01 TROH High Efficiency AHU Filters	30 days	Thu 03/01/19	Wed 13/02/19
326		B02 TROH ECDC motors on AHUs	30 days	Fri 04/01/19	Thu 14/02/19
327		B03 TROH Steam Trap Replacement and repair	45 days	Thu 17/01/19	Wed 20/03/19
328		B04 TROH - Split Unit Controls	30 days	Wed 27/03/19	Fri 10/05/19
329		B05 TROH - Split Unit Replacement	30 days	Fri 15/02/19	Thu 28/03/19
330		B07 TROH - Valve and Pipe Insulation	35 days	Thu 17/01/19	Wed 06/03/19
331		B08 TROH - Laundry Night Shut Down	45 days	Fri 15/02/19	Thu 18/04/19
332		C01 TROH BMS Optimisation	25 days	Mon 14/01/19	Fri 15/02/19
333		C02 TROH BMS Upgrade	55 days	Thu 18/04/19	Tue 09/07/19
334		D02 TROH Steam Main Rationalisation	60 days	Fri 12/04/19	Wed 10/07/19
335		D02 TROH Steam Main Rationalisation Plantrooms	60 days	Thu 21/02/19	Mon 20/05/19
336		Practical completion	0 days	Thu 24/10/19	Thu 24/10/19
337		ECM Fine tuning and adjustment	44 days	Fri 23/08/19	Thu 24/10/19


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BREATHE

Induction Record

Contract:		**Reference:**		**Location:**	
Induction Presenter (Print Name):		**Induction Presenter (Print Job Title):**		**Length of Induction:** (in hours and minutes)	
Record Induction Modules briefed					

Ind No	Print Forename	Print Surname	Trade / Position	Company	CSCS or Equal No	Date

BREATHE

Site Induction / Start Sheet

Project	Contract Number	Induction No.

Name	Gender	Date of Birth	Young Person Assessment
	☐ Male ☐ Female		☐ Over 18 ☐ Under 18

National Insurance Number	

Home Address	Post Code	Nationality	First Language Spoken
	E Mail		eg English
		Emergency Contact Details	
		Relationship	
Contact Telephone No.		Name	
		Contact No.	

Health Questionnaire (please tick Yes or No)

Are you presently or have you ever suffered from **any** form of illness or condition, which may be relevant in an emergency, e.g. Asthma, Diabetes, Epilepsy etc.	☐ Yes ☐ No
Do you have any health issues such as Back Pain, Dermatitis, Arthritis etc?	☐ Yes ☐ No
Are you taking any medication that we need to be aware of?	☐ Yes ☐ No

If you have answered **YES** to any of the above questions please complete the **Supplementary Health Information** section overleaf

Employment Information (please tick box appropriate to your employment status)

Breathe Employee	☐	**Apprentice - Employed by Breathe**	☐
Subcontractor	☐	**Apprentice - Employed by Subcontractor**	☐
Business Action on Homelessness Placement	☐	**Work Experience Placement**	☐
Graduate / Trainee	☐	**Internship**	☐
Client / Visitor	☐		
Recruitment Agency Employee	☐	Please state Agency who recruited you:	

Name of Employer	Company you are working for on this site (if different)

Competency Information

Category of Card held e.g. CSCS, CPCS, JIB or affiliated card	Trade or Plant e.g. Plasterer, Carpenter, General Operative	Card Number	Expiry Date
NO ADMISSION TO SITE if cannot provide valid card	**Alternatively must provide Test Certificate & card application.**	**Check with CSCS that application has been submitted**	

Training & Qualifications (Please tick if applicable to you)

Are you First Aid trained?	☐ Yes ☐ No		
Are you a designated Supervisor on this site?	☐ Yes ☐ No	**Supervisor Competency Form submitted?**	☐ Yes ☐ No
Are you currently on a training course?	☐ Yes ☐ No	Please complete **Training Supplementary Information** overleaf	

Employer Declaration - Work Procedures Explained (to be completed by Supervisor)

I can confirm that the inductee has had the contents of the documentation listed overleaf explained to him/her and I confirm that any subsequent amendments or additional documentation will be explained to him/her prior to any work activity being carried out.

Supervisor Name		Date	
Signature			

Inductee Declaration - Confirmation of Breathe Induction Attended

I confirm that I have received a Breathe site specific induction and that I have read and understood the contents of the documents listed overleaf and will work in accordance with them.

Signature		Date	

Induction Type (Please tick as appropriate) ☐ Full ☐ Supervisor ☐ Plant Operator ☐ Visitor

Company Activity - Specific Documentation to be listed below (to be completed by Supervisor)

List below all documentation that is relevant and applies to the nature of the works being under worker detailed overleaf

Risk Assessment

Method Statement

Inspection & Test Plans (I&TPs)

CoSHH Assessment

Manual Handling

Vibration Assessment

Noise Assessment

Lifting Plan

Other

Training Supplementary Information

What School/College/University, Training centre are you attending?

What qualification are you working towards? e.g. Degree, NVQ 3 or NVQ 4, City and Guilds, CSCS, CPCS?

Duration of Course

Start date

Finish Date

Supplementary Health Information

Please use this section to tell us information about your health that we may need to know in case of emergency, this will be treated in confidence. You may also wish to discuss this with the Breathe Project Manager/Contract Head.

Data Protection

We have a legal duty to protect your data. Your personal details that you are being asked to provide are to be used for identification and verification purposes and in the event of an emergency or claim situation. The information on this form will be retained locally on site, with identification and medical details also held in a central database for both local and central site access reporting purposes. The information you provide is protected under the Data Protection Act and thus will be kept in a secure location and will be used only for the above purposes. If you have any queries concerning how we handle your data, please contact our Data Protection Compliance Officer

Breathe Use Only

Breathe Inductor

Signature

Cards Checked by

Signature

Photograph Taken ☐ Yes ☐ No

Pass Number

Permit to Disturb Ground

Part 1 – Until Stage 4, this permit is only valid for the hand digging of trial holes to confirm the location of known services
All Trial Holes must be hand dug as prescribed within HSG 47 i.e. commencing off the line and working towards the service

Contract Name:		**Permit Number:**	
Contract No:		**Date:**	/ /
Location of Work:		**Expected Depth:**	mm
Activity:		**Maximum Depth:**	mm

Cat and Genny to be used prior to disturbing the ground and at regular periods throughout the activity

CAT & Genny User 1		**CAT + Genny No**		**Calibration Date**	/ /
CAT & Genny User 2		**CAT + Genny No**		**Calibration date**	/ /
CAT & Genny User 3		**CAT + Genny No**		**Calibration date**	/ /

Service Identification (Complete Stage 1 and Stage 2 for Permit to Hand Dig Trial Holes and then complete Stage 3 once trial holes have been completed)

	Stage 1 – Desktop Study		**Stage 2 – Field Study**		**Stage 3 – Trial Holes**	
Service	Service identified on drawing?	Drawing number?	Identified via visual inspection?	Identified by CAT / Genny / Radar?	Verified via Trial hole?	Present?
Electricity UG/OH?	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Gas / Fuel	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Communications	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
High Pressure Lines	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Water	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Sewers	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Drainage	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
Other eg Overhead, Fire hydrant, as-built,	Yes / No		Yes / No	Yes / No	Yes / No	Yes / No
	Drawings and info checked?		**Inspections checked?**		**Trial holes checked?**	
Signed	(Permit issuer /Engineer)		(Permit Holder/Supervisor)		(Permit Holder/Supervisor)	
	Sign:		Sign:		Sign:	

Specific excavation requirements: Mandatory in CCS, or where it is foreseeable that underground apparatus/services may be struck in other Businesses (based on risk assessment); Insulated tools to BS 8020 must be used and flame retardant work wear worn.

PERMIT TO HAND DIG TRIAL HOLES

This permit is valid for the period specified only (The maximum time frame a permit is to be kept open is 7 consecutive days)	From:	Date:		Time:	
	To:	Date:		Time:	
Permit issuer signature				Date	
Permit holder signature				Date	

NOTE:- The Permit Holder MUST have completed the 1 Day Underground Services Course and be demonstrably competent

Part 2 – Once stages 1,2 & 3 have been completed, the decision to proceed is required based on the following points.

Stage 4	**At this stage the permit must be reviewed by the Permit Holder and the issuer where discussions will take place in order to progress with the main works**		
Do any services require isolation?	Yes / No	**Isolation permit required?**	Yes / No
Do any services need to be re-routed?	Yes / No	**Do any services need to be protected?**	Yes / No
Is a review of the RAMS required?	Yes / No	**Method Statement Number detailing method of excavation**	

Method of Support Documented?	Yes / No/ N/A	**Method of Access Documented?**	Yes / No / NA
Method of Edge Protection Documented?	Yes / No	**Is a Temporary works design required?**	Yes / No
Confined space?	Yes / No	**Additional Permits Required? E.g. pump**	Yes / No
If required, have suitable precautions been taken to prevent undermining or damage to foundations or temporary supports?			Yes / No / NA
If present, have precautions been taken to prevent contact with overhead services or near approach to the operation?			Yes / No / NA
If uncharted services have been found has the stats plan been updated / revised and reissued prior to further excavation works taking place?			Yes / No / NA

PERMIT TO DISTURB GROUND

(NO MECHANICAL EXCAVATION MAY TAKE PLACE WITHIN 500mm OF ANY IDENTIFIED SERVICES)

Complete either 5a OR 5b		**Name**	**Position**	**Sign**	**Date**
Stage 5a	**Services located and HAND EXCAVATION ONLY authorised by Agent / Foreman / Senior Engineer**				
Stage 5b	**Services located and MECHANICAL EXCAVATION authorised by Agent / Foreman / Snr Engineer**				

This permit is valid for the period specified only (The maximum time frame a permit is to be kept open is 7 consecutive days from the first day of trial holes)	From:	Date:		Time:		
	To:	Date:		Time:		
Permit Holder:	Name:		Sign:		Date	

NOTE:- The Permit Holder MUST have completed the 1 Day Underground Services Course and be demonstrably competent

EXTENSION OF PERMIT – DAILY CHECKS

I confirm that I, the permit issuer or holder, have checked that circumstances that could affect the validity of the permit have not changed and that I have checked that the area is safe for work to continue.

	Day 2	**Day 3**	**Day 4**	**Day 5**	**Day 6**	**Day 7**
Date						
From time						
To Time						
Name						
Signature						

CLOSE OUT OF PERMIT

Permit Close Out: The work associated with this permit is complete / ceased – No further excavation work may be carried out in this location without the issue of a new permit.

The permit is to be closed by the contract permit coordinator who will ensure any uncharted, disconnected or newly installed services have been recorded for future excavations.	**Permit Coordinator Name**	**Sign**	**Date**

Permit to Disturb Ground

All persons involved in this excavation must be briefed on the contents of this permit

We the undersigned have received and understood the content, controls and arrangements specified in the attached permit and agree that If during excavation any unrecorded services or unidentified buried objects are uncovered, or underground apparatus damaged – work must be suspended and emergency contact informed immediately:

Name	Position	Employer	Signature	Date

Sketch of work area showing areas scanned, marked and where Trial Holes have been excavated. Trial holes to be shown using TH on sketch

Plan
Section

Key

Sketch Author

Scale

Date Drawn

Revision

If any major services are highlighted or subsequently located work must stop until advice from Utility Provider is sought and a specific method statement created.

EMERGENCY ACTION

Electric cable damage - call 0800 40 40 90. Treat the cable as live - it may re-energise at any time without warning. Do not attempt to remove anything in contact with the cable. Keep everyone away from the area or any water that maybe in contact with the service until it has been made safe

Gas service damage call Gas Emergency immediately on 0800 111999
Ban smoking, naked flames and other sources of ignition within at least 5 m of the leak. Help Transco, the Police or Emergency Services as requested