

NORTH YORKSHIRE POLYHALITE PROJECT – WOODSMITH MINE

MOBILISATION / DEMOBILISATION

Bauer: YPM-BAU-MS-04

AMC UK: 40-AMC-WS-10-SW-RA-0001

Revision	Date	Description	Made by	Checked	Signed
A	19.05.17	Original Issue	A. Khan	G. Jahnert	
B	25.05.17	AMC UK comments incorporated	A. Khan	G. Jahnert	
0	26.05.17	Final AMC UK & Sirius comments incorporated	A. Khan	G. Jahnert	



Document Ref. YPM-BAU-MS-04_Rev0

Page No.2

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

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Work Scope: Mobilisation and Demobilisation

List of Contents

1.	SCOPE OF WORKS.....	3
2.	MOBILISATION OF CRAWLER CRANES.....	3
3.	MOBILISATION OF CUTTER UNITS	6
4.	INSTALLATION OF WELFARE & OFFICE.....	7
5.	INSTALLATION OF WORKSHOP	7
6.	INSTALLATION OF WELDING TENT/SHELTER.....	8
7.	SIGNIFICANT RISKS AND CONTROLS	9
8.	PLANT & EQUIPMENT.....	11
9.	HEALTH AND SAFETY LEGISLATION.....	11
10.	COSHH.....	12
11.	FIRST AID ARRANGEMENTS	12
12.	PERSONAL PROTECTIVE EQUIPMENT	12
13.	ENVIRONMENTAL PROTECTION.....	13
14.	MANUAL HANDLING	13
15.	ACCIDENTS, INCIDENTS AND RIDDOR	13
16.	EXISTING SERVICES / HAZARDS.....	13
17.	MANOEUVRING PLANT AROUND THE SITE.....	13
18.	KEY CONTACTS & SITE PERSONNEL.....	14
	APPENDIX A – DRAWINGS.....	15
	APPENDIX B – RISK ASSESSMENT	16
	APPENDIX C – BAUER POLICY FOR HEALTH, SAFETY AND WELFARE	17
	APPENDIX D – COSHH ASSESSMENTS.....	18
	APPENDIX E – PLANT REGISTER.....	19
	APPENDIX F – PERSONNEL HISTOGRAM	20
	APPENDIX G – MC96/128 AND BC40 ASSEMBLY INSTRUCTIONS.....	21



Document Ref. YPM-BAU-MS-04_Rev0

Page No.3

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

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Checked by: JAG

Work Scope: Mobilisation and Demobilisation

1. SCOPE OF WORKS

The scope of works to be constructed by Bauer Technologies Ltd. (BTL) for Associated Mining Construction UK (AMC UK) comprises the installation of three circular diaphragm wall shafts at the Woodsmith Mine site. This method statement describes the mobilisation and demobilisation of diaphragm wall cutters, crawler cranes, welfare and workshop. Site layout drawing with the location of welfare and workshop is included in Appendix A.

2. MOBILISATION OF CRAWLER CRANES

Prior to the mobilisation of any major items of plant, AMC UK will issue BTL with a Working Platform Certificate to confirm that the platform has been designed and constructed in accordance with the FPS requirements. The diaphragm wall cutter and crawler crane ground bearing pressures will be provided by BTL.

The mobilisation of plant and equipment to site will follow the Bauer Logistics Plan (40-AMC-WS-10-LG-PL-0001) which includes approved routes.

Bauer will mobilise up to six crawler cranes with capacities of 60-160t each. The following sequence details the activities undertaken during mobilisation of crawler cranes which are transported with tracks mounted e.g. up to 110t capacity (demobilisation in reverse order):

- A low loader will access the site via the Welfare Access road.
- The crane base unit will track off the low loader and onto the certified working platform.
- The crane base unit will extend its tracks.
- Jib sections are unloaded by an assist mobile crane or HIAB.
- Jib sections are pinned together on the ground.
- Base machine is married up to jib sections.
- Pendent ropes are pinned together.
- Hoist rope extended to the length of the jib and reeved to hook block.
- Limit switches are connected.
- General safety check is conducted to ensure all pins are in place and secure.
- All loose material removed from jib.
- Safe load indicator (SLI) calibrated to appropriate jib length.
- Jib raised to working height.
- Final inspection of machine.



Document Ref. YPM-BAU-MS-04_Rev0

Page No.4

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

Checked by: JAG

Work Scope: Mobilisation and Demobilisation

The following sequence details the activities undertaken during mobilisation of crawler cranes which are transported without tracks mounted, e.g. larger than 110t (demobilisation in reverse order):

- A low loader will access the site via the Welfare Access road.
- The crane engine will be started to raise the boom foot section
- The base assembly is then raised by the four built in hydraulic jacks until it is clear of the semi low loader deck. The semi low loader will then drive forward from under the raised crane body and leave the site. (Note that for smaller crawler cranes <110t, the base unit will be delivered with tracks mounted. In this case, the base unit will track off the low loader onto the working platform and extend its tracks to working mode before assembly of the jib commences.
- An assist crane will be positioned at approx. 3 metres from the crane base unit, and set up on its 7.5m span outriggers allowing room for vehicles to pull alongside.
- The delivery vehicle carrying the track frames will be positioned alongside the assist crane.
- The first track frame will be attached by slings to the assist crane.
- The assist crane will lift and slew the track frame through 90 degrees and place on the ground next to the crane base stub axle.
- The slings are then released from the assist crane and refitted to the crawler crane self-assembly ram fitted to boom foot section.
- Using the self-assembly ram, the track frame is lifted and slewed through 180 degrees and fitted on the stub axle at the far side.
- This procedure is repeated to fit the nearside track frame without the need to slew the load with the crawler crane.
- The car body counterweights can now be lifted and positioned in place on each side of the machine.
- Once the car body counterweights are fitted the base unit will rotate through 90 degrees to bring the tracks in line.
- The counterweights are fitted in place by the crawler cranes own built in equipment after preassembly with the assist crane. First the counterweight tray is lifted off the delivery vehicle and placed on the ground in a position in line with the crawler crane.
- Then the slab is placed on top followed by the remaining ballast weights.
- The crawler crane is positioned to attach its own lifting equipment to the A frame assembly and the assembly raised, located and locked on the rear of the crane.
- The cab access walkway sections can now be fitted.
- The machine will now be slewed to face the length of the allocated erection area boom root lowered.
- The assist crane will now reposition beyond the boom root and to one side of the boom build line, to place the boom inserts.
- After placing the first section complete with boom pendants, the section is lifted and positioned to line up the joints. The pins and 'R' clips are now inserted in both boom and pendants.



Document Ref. YPM-BAU-MS-04_Rev0

Page No.5

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

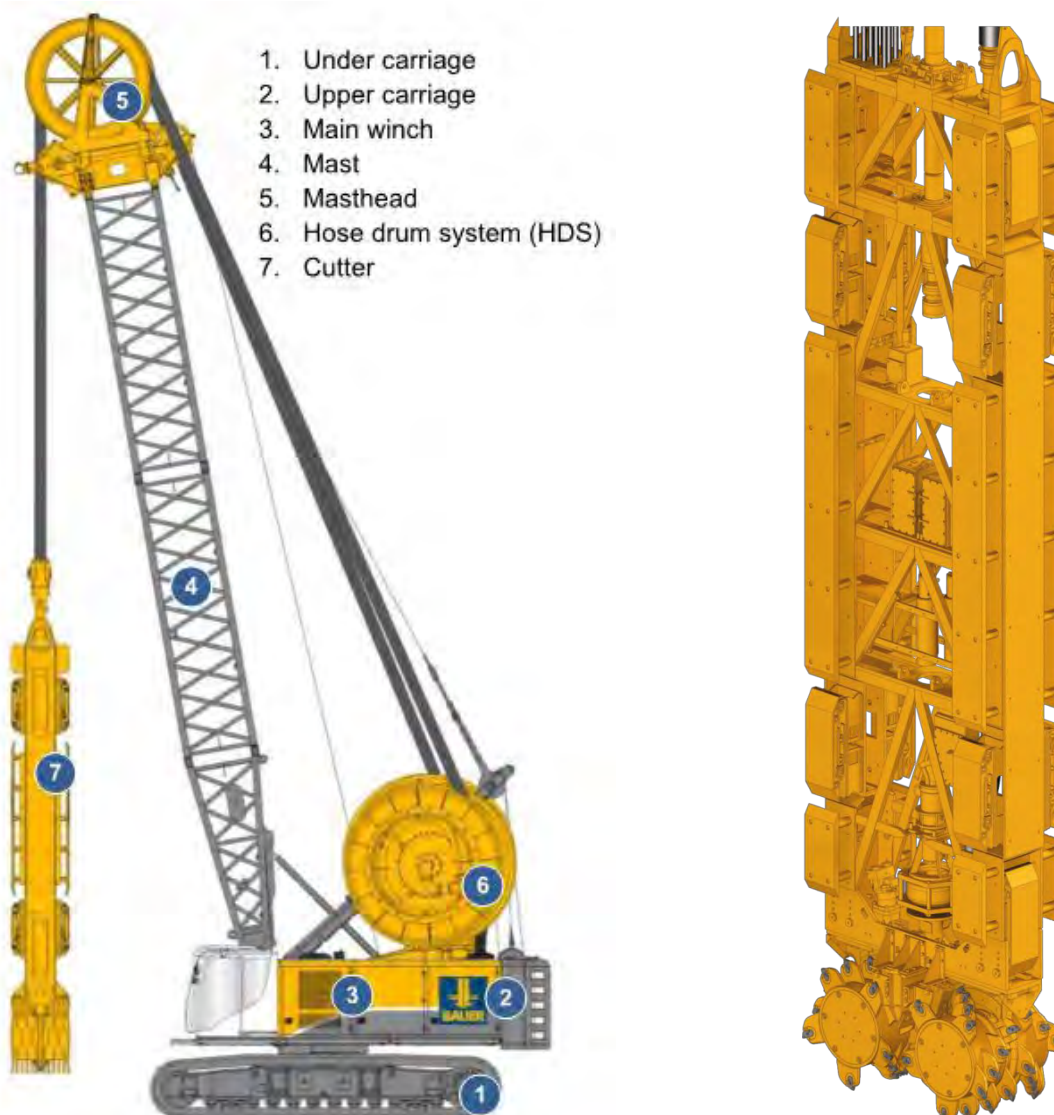
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Work Scope: Mobilisation and Demobilisation

- Repeat this with the remaining sections and head until boom complete.
- When completed, the crane is moved forward to line up the top pin holes joining the root to the boom. When in line the upper two pins are fitted, and locked with `R` clips.
- As the crane lifts the boom the lower pin holes will come into line and the joint pins inserted and locked with `R` clips.
- The derricking system is now lowered to allow the pendant connection to the foot section to be transferred and connected to the boom pendants.
- The weight is now taken leaving the boom head just touching the ground.
- Signal cables will now be fitted and checked at this stage.
- The main hoist rope is then lowered off and pulled along the booms length and fed through point sheaves, allowing an excess amount to be fed through the hook block, rigged on the required falls, and anchored.
- All pins, `R` clips, and pendants on the boom arrangement will be visually checked before lifting the boom.
- The Rated Capacity Indicator (or SLI) will now be checked for the correct mode selection, accuracy and functionality.
- The Fitter will now complete the Crane Erection Checklist.

3. MOBILISATION OF CUTTER UNITS

BAUER crawler crane types BAUER MC96 and MC128 with BC40 cutters will be deployed as diaphragm wall excavation units. The cranes and cutter units will be transported to site in sections and assembled in the work area. A low loader will access the site via the Welfare Access road. The MC base units will then track off the low loader onto the working platform. The MC units and BC cutters will then be assembled in line with the manufacturer's instructions (refer to Appendix G).



Figures 1 and 2: MC base unit (left) and BC cutter (right)



Document Ref. YPM-BAU-MS-04_Rev0

Page No.7

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

Checked by: JAG

Work Scope: Mobilisation and Demobilisation

4. INSTALLATION OF WELFARE & OFFICE

Prior to mobilisation of welfare and office accommodation, AMC UK will design and install a level concrete slab. AMC UK will also excavate an area for the installation of a cesspool underground. The cesspool be a sealed tank with no outlets. The cesspool will be manufactured and maintained in accordance with a British or EU specification. The cesspool will have a high level indicator. It will be sucked out by a sewage pump truck on a regular basis, typically twice per week. The contents will be disposed of at a registered facility as per the Site Waste Management Plan.

The loads from the welfare and office structure will be provided by BTL. BTL will also provide the dimensions of the excavation for the septic tank.

The welfare & office structure is a 2 storey modulus building with approximate dimensions of 35m x 15m x 6m (L x W x H) and will come in the RAL colour 7035 (example pictures have been included in Appendix A. The welfare and office structure will be in place for the duration of the works and will accommodate approximately 100nr. staff including workers, management and BTL visitors. All BTL personal will be brought to site as outlined in the BTL Logistics Plan, ensuring that vehicles parking on site are controlled due to limited amount of parking bays.

The welfare & office block will be installed using a hiab or a crane and therefore AMC UK will be required to issue BTL with a Working Platform Certificate to confirm that the platform has been designed and constructed in accordance with the Federation of Piling Specialists (FPS) requirements. All lifts will be carried out in accordance with an approved lift plan.

It is anticipated that the installation of the welfare and office setup will take approximately 2 weeks.

A detailed method statement including the technical details and detailed risk assessment will be submitted once the supplier has been appointed and carried out a site visit. An indicative welfare office setup drawing is included in Appendix A.

Due to the location of site a satellite dish will be installed on top of the office & welfare accommodation in order to receive internet. For the installation of satellite dish please refer to the satellite dish installation procedure.

5. INSTALLATION OF WORKSHOP

In order to store spare parts and consumables and to maintain and repair diaphragm wall equipment BTL requires a workshop on site. BTL fitters and mechanics will work on equipment from this workshop in order to ensure efficiency and reduce the risk of delays by not having to take equipment off site for repair or maintenance. Please refer to Appendix A for the position of workshop.

The workshop will have openings to the sides (approximately 7 nr.) where BTL steel storage containers coloured in yellow and equipped with spare parts and hydraulic hoses will be installed. This would allow the fitters and mechanics to access the store containers from inside the workshop.

Prior to installation of the workshop AMC UK will design and install a level concrete slab with drainage. A temporary building or a tent will be installed for the workshop. The approximate dimensions of the workshop are 25m x 15m and 9m high. The workshop will be an aluminium frame on top of the concrete slab installed by AMC UK with white coloured fire resistant tarpaulin covers on

top. A method statement covering the technical details and detailed risk assessment will be submitted once the supplier has been appointed and carried out a site visit.



Figures 3: Example of workshop with store containers installed to the sides



Figures 4: Example of internal setup of workshop

6. INSTALLATION OF WELDING TENT/SHELTER

A suitable area will be required to carry out hot works in order to repair any damaged equipment. BTL will install a welding tent/shelter where hot works can be carried out safely. The tent/shelter will be erected between 2 steel storage containers coloured in yellow as shown in Figure 5 below. The approximate dimensions of the welding tent/shelter are 6m x 8m x 6m (L x W x H). The tent will be an aluminium frame on top of the concrete slab installed by AMC UK with white coloured fire resistant tarpaulin covers.



Figures 5: Example of welding tent/shelter

The details regarding the erection and the works being carried along with the associated risks & controls are covered in a separate method statement.

7. SIGNIFICANT RISKS AND CONTROLS

The following key risks have been identified for the diaphragm wall works. Risk mitigations have been planned in line with the full risk assessment for diaphragm wall construction (refer to Appendix B).

1) Risk: Slips, trips and falls

Controls: Implement solid housekeeping procedures and maintain piling platforms and walkways. Provide adequate storage facilities for small tools and consumables as well as designated material storage/laydown areas. Provide waste segregation facilities. Ensure that all operatives wear safety footwear with adequate ankle protection. Clean up slurry spillages on walkways immediately to avoid slippery surfaces. De-ice walkways as required during winter months.

2) Risk: Working platform failure causing plant to overturn

Controls: In advance of the works, Bauer have provided ground bearing pressure calculations for heavy plant. Sirius Minerals will design and install the working platform in line with the required loadings. This includes implementation of dewatering systems as required. Before offloading of any tracked plant, AMC UK will issue Bauer with a FPS Working Platform Certificate confirming suitability of the provided working platform for the specific plant items.



Document Ref. YPM-BAU-MS-04_Rev0

Page No.10

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

Checked by: JAG

Work Scope: Mobilisation and Demobilisation

Subsequently, the Bauer site supervisor will inspect the condition of the piling platform before each shift. Inspections will be recorded on the supervisor's daily reports. Any defects will be reported to AMC UK immediately who will carry out maintenance as soon as possible.

3) Risk: Working at height / falls from height

Controls: The need for working at height will be eliminated as much as practicable. Where working at height cannot be avoided, adequate edge protection will be made available wherever possible. Where use of edge protection is not practicable, alternative access systems will be provided (scaffold, MEWP or similar). As a last resort, fall arrest systems will be used (e.g. safety harness and lanyard).

4) Risk: Fuel spillage

Controls: Wherever possible, refuelling is to be carried out at least 5m-10m from access to surface water and open excavations that have a pathway to groundwater. Refuel plant with a suction hose refuelling system where possible. If plant does not have suction hoses fitted, refuel with care using a pump operated refuelling system. Provide double bunded diesel bowsers and use plant nappies / drip trays as proactive measure. Have spill kits available on major plant items and in designated spill response stations around the project.

5) Risk: Emergency response time

Controls: Due to the remote location of the project, AMC UK will ensure that emergency services have been issued with the site coordinates and have been made aware of access routes and muster points. The AMC UK Construction Phase Health and Safety Plan will outline the Emergency Procedures to be followed in case of incidents on site. The emergency procedures will be communicated to all personnel during the AMC UK Project Site Induction.

6) Risk: Fatigue

Controls: Schedule shift pattern with consideration to fatigue related occupational illness. Review shift pattern with operatives and change working times if required. Ensure that adequate welfare facilities are available.

7) Risk: Lifting operations / wind speed.

Controls: Bauer will produce lift plans for all cranes and HIABs used on site. The personnel in charge of lifting operations will be competent and certified. All plant and lifting equipment will be subject to periodic thorough examination.

The slingers will inspect every load prior to lifting.

Crane operators will lift in line with the applicable lift plans and the manufacturer's instructions. Operators will monitor the wind speed through anemometers and cease lifting operations for wind speeds exceeding 14 m/s (or as per crane manufacturer's instructions).

Crane operators will not lift over personnel. Operatives will use taglines to control loads during lifting operations. The workshop building has been designed for the local wind loads provided as part of the works information.



Document Ref. YPM-BAU-MS-04_Rev0

Page No.11

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

Checked by: JAG

Work Scope: Mobilisation and Demobilisation

8) Risk: Plant pedestrian interface / High number of heavy plant

Controls: All heavy plant movements will be supervised by qualified banksmen. All plant operators will be competent and certified. Site space proofing drawings will identify likely confined spaces around moving plant. Equipment and material positions have been simulated in these site layout drawings prior to mobilisation to site. During construction, the arrangement of heavy equipment on site will be constantly controlled by the BTL site supervisor.

Pedestrians and plant will be physically separated by implementing walkways as much as reasonably practical.

All movement of heavy equipment will be controlled by banksmen. All persons on site will be briefed during toolbox talks on how to move and work safely on site.

8. PLANT & EQUIPMENT

A detailed list of all plant and equipment is included in Appendix E.

It is anticipated that the below plant and equipment would require movement orders as they will come to site as abnormal loads. Further details regarding the management and movement of vehicles to site can be found in Bauer Logistics Plan (40-AMC-WS-10-LG-PL-0001).

- Cutter – 5 abnormal loads per cutter (MC base & BC cutter). 15 no. abnormal loads for 3 cutters.
- Crane – 2 abnormal loads per crane. 10 abnormal loads in total for 5 cranes.
- Desanding units – 1 abnormal load per desanding unit. 3 number in total for 3 desanding units.

9. HEALTH AND SAFETY LEGISLATION

All works are to be carried out in accordance with this method statement and the following documents:

- AMC UK Construction Phase Health & Safety Plan Woodsmith Mine Site - Phase 4 - Diaphragm Wall Construction 40-AMC-WS-71 PM-PL-0002.
- AMC UK Environmental Management Plan (EMP) Woodsmith Mine Site - Phase 4 - Diaphragm Wall Construction 40-AMC-WS-71-EN-PL-0004
- AMC UK Environmental Emergency Preparedness Plan (EPPP) Woodsmith Mine Site - Phase 4 - Diaphragm Wall Construction and Bentonite Plant Installation and Operation 40-AMC-WS-71-EN-PL-0005
- AMC UK Site Waste Management Plan (SWMP) Woodsmith Mine Site - Phase 4 –Diaphragm Wall Construction 40-AMC-WS-71-EN-PL-0006
- Bauer Health and Safety Plan 40-AMC-WS-10-HS-PL-0001
- Bauer Environmental Plan 40-AMC-WS-10-EN-PL-0001



Document Ref. YPM-BAU-MS-04_Rev0

Page No.12

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

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Work Scope: Mobilisation and Demobilisation

- Bauer Slurry Management Plan 40-AMC-WS-10-EN-PL-0002
- Bauer Policy for Health, Safety and Welfare (Appendix C)
- Risk Assessment (Appendix B)
- COSHH Assessments (Appendix D)
- All relevant regulations, HSE Guidance Notes, Environmental Agency Guidance Notes, Codes of Practice, National and International Standards.

10. COSHH

The Control of Substances Hazardous to Health Regulations, 2002, (C.O.S.H.H. Regulations), requires that an assessment is undertaken of health risks created by work involving substances hazardous to health. These refer to the use of chemicals on a site and state that the precautions to be taken are recorded on a Substance C.O.S.H.H. Record.

The C.O.S.H.H. Assessment Record is based on information obtained from a data sheet received from the substance supplier.

A copy of all the Company's Substance Identification Records are held on site and those relevant to this document are shown in Appendix D.

11. FIRST AID ARRANGEMENTS

The First Aid arrangements for the site are detailed in the AMC UK Construction Phase Health & Safety Plan Woodsmith Mine Site - Phase 4 –Diaphragm Wall Construction 40-AMC-WS-71-PM-PL-0002. Sirius Minerals provides a full time paramedic. In addition, Bauer will provide first aid kits and at least three first aiders per shift.

12. PERSONAL PROTECTIVE EQUIPMENT

- High Visibility Clothing (EN 471)
- Eye Protection (EN 166F)
- Hearing Protection (EN 352)
- Safety Helmets (EN397 MM, LD)
- Protective Gloves (EN 388)
- Safety Harness for working at height (EN 361)
- Protective Footwear (EN 345 P) – Safety boots must have steel mid sole.

All Personal Protective Equipment will be replaced as required during the contract. Safety harnesses will be stored appropriately and inspected on a regular basis as part of the lifting gear inspection regime.



Document Ref. YPM-BAU-MS-04_Rev0

Page No.13

Date: 26.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

Made By: AK

Checked by: JAG

Work Scope: Mobilisation and Demobilisation

13. ENVIRONMENTAL PROTECTION

All works to be compliant with AMC UK Environmental Management Plan (EMP) Woodsmith Mine Site - Phase 4 –Diaphragm Wall Construction (Doc. No. 40-AMC-WS-71- EN-PL-0004).

- Noise: There is no significant noise generated during mobilisation works however all noise is monitored by AMC UK.
- Vibration: There is no risk of vibration during mobilisation that will affect the local community
- Dust: Dust suppression will be implemented by AMC UK (e.g. dampening of dusty areas)
- Spillages: Drip trays and plant nappies to be used when fuelling or using oils. Spill kits to be available and in an unlikely event of spillage the effected are to be immediately cleaned.

14. MANUAL HANDLING

Mechanical plant is provided as far as possible to reduce manual handling to a minimum. Due to the nature of the work, cranes will be mainly used for most lifting operations and moving of plant and equipment.

Manual handling will be limited to the carrying of light steel parts, pipework, small lifting equipment such as shackles etc.

15. ACCIDENTS, INCIDENTS AND RIDDOR

The arrangements for Reporting of Injuries, Diseases and Dangerous Occurrences under the regulations are as detailed in the company safety manual, a copy of which will be held by the site supervisor. The ultimate responsibility for reporting / investigating is held by the BTL Health & Safety Manager. In the unfortunate event of any accident or near miss, the BTL Health & Safety Manager will be informed immediately and he in turn would forward details to the AMC UK Health & Safety Manager and if necessary, the HSE. This also applies to environmental incidents.

16. EXISTING SERVICES / HAZARDS

No existing services have been notified to BTL by AMC UK.

17. MANOEUVRING PLANT AROUND THE SITE

In order to carry out any major repair works to the cutters the cutter units (MC base + BC cutter) will require safe and designed access routes to track from the work areas to the workshop. Adequate space on the concrete slab in front of the workshop will be provided in order to lay down the BC cutter unit and if required the jib of the MC unit to carry out repair works as required.

A firm, dry, level all weather hard standing shall be provided as a stable working platform for the heavy plant to work off and installed to the BRE Specification, 'Working platforms for tracked plant'. The working platform for the cutter must be installed flat at 0 degrees. The working platform for the



Document Ref. YPM-BAU-MS-04_RevA

Page No.14

Date: 19.05.2017

Contract Title: NORTH YORKSHIRE POLYHALITE PROJECT –
WOODSMITH MINE

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Work Scope: Mobilisation and Demobilisation

cranes can be inclined up to 0.5 degrees. Any ramps to access the platform, or within the platform must not exceed 1 in 10.

The appointed ganger/banksman will supervise all plant manoeuvres and direct the attendant excavator(s) in their duties.

A Working Platform Certificate (FPS/WPC/1) must be issued by AMC UK to BTL prior to commencement of the site works.

18. KEY CONTACTS & SITE PERSONNEL

Name	Company	Position	Assist
Jonathan White	AMC UK	Operations Director	
Thomas Prinz	AMC UK	Site Supervisor	
Siegfried Wenninger	AMC UK	Lead Engineer - Mining	TBC
TBC	AMC UK	H&S Manager	TBC
Gustav Jahnert	Bauer	Senior Project Manager	
Asad Khan	Bauer	Site Agent	
Norbert Hoffmann	Bauer	Site Agent	
TBC	Bauer	Site Supervisor	TBC

All site personnel will have as a minimum a CSCS card and where applicable a CPCS card. All operatives will have their CSCS/CPCS cards.

Site Supervisors to hold SSSTS certification and Site Managers will hold SMSTS certification.



Document Ref. YPM-BAU-MS-04_RevA

Page No.15

Date: 19.05.2017

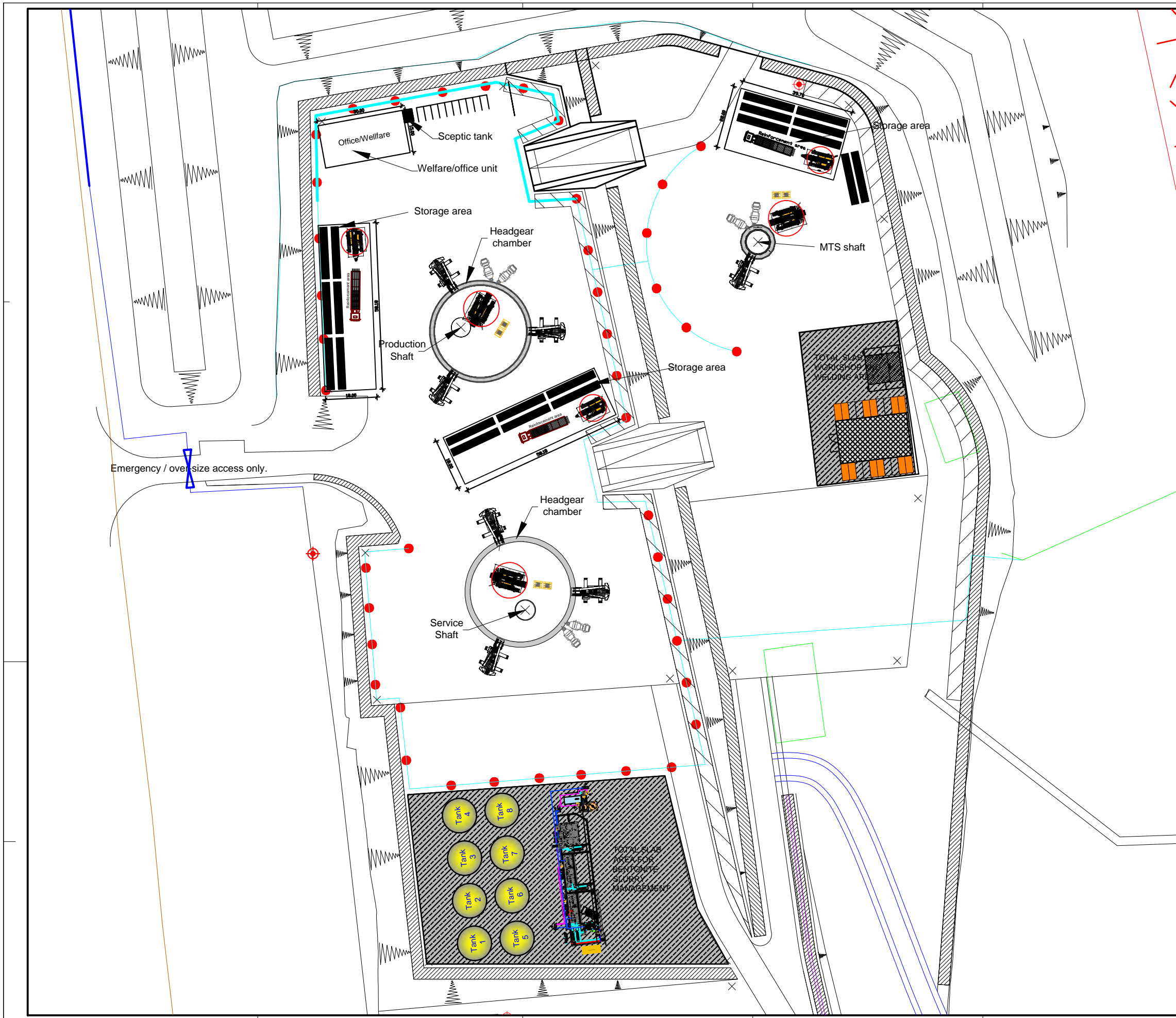
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WOODSMITH MINE

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APPENDIX A – DRAWINGS



**FOR PLANNING PURPOSES
NOT FOR CONSTRUCTION**

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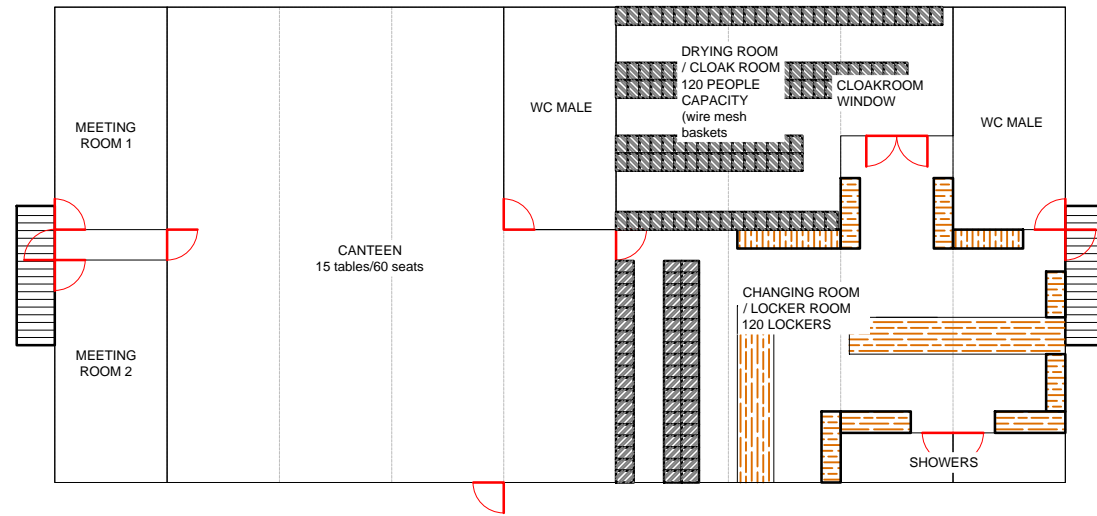
ALL DIMENSIONS AND SERVICES
HAVE TO BE CONFIRMED ON SITE!

CHANGE	DESIGNED BY	SITE ENGINEER	DATE	INDEX

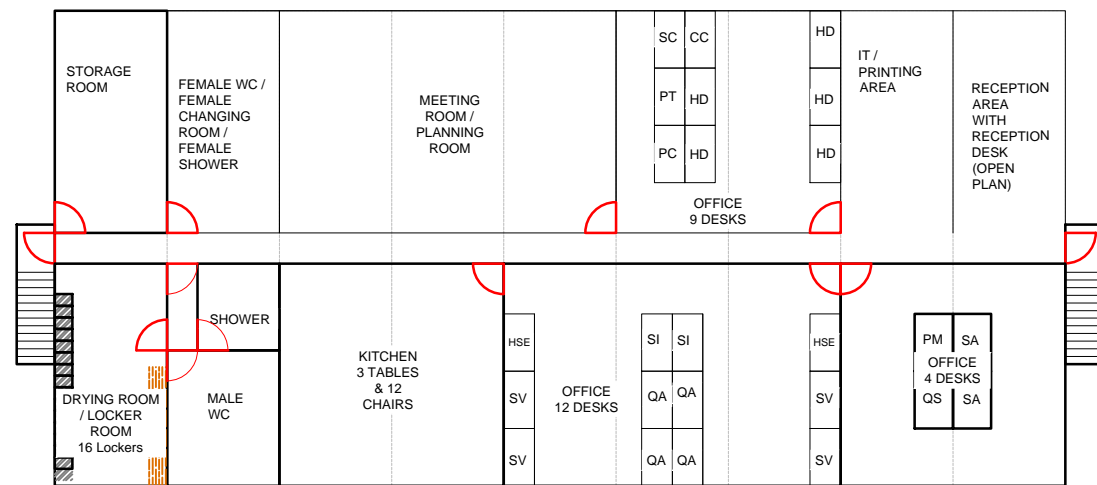
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BAUER Technologies Ltd Millers Three, Southmill Road Bishops Stortford, Herts, UK, CM23 3DH	
CLIENT	Sirius Minerals Plc
MAIN CONTRACTOR	Associated Mining Construction AMC (UK) Limited
SUB CONTRACTOR	BAUER Technologies Limited
PROJECT	NORTH YORKSHIRE POLYHALITE PROJECT
DRAWING	Preliminary Diaphragm Wall Site Installation Option B: SS + PS 60 m and Farmer Tanks
SCALE: No	DRAWN: B. Seifried DATE: 25.05.2017
	CHECKED: N. Hoffmann DATE: 25.05.2017
	PLAN SIZE: A0 DESIGNED BY: BAUER DATE: 25.05.2017
PROJECT NO.: A	DRAWING NO.: Rev_03



GROUND FLOOR



FIRST FLOOR



ROOF TOP

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REV	DATE	DESCRIPTION OF ISSUE	DRN	SL	ENG	BTL	CLIENT
				CHECKED		APPROVED	

CLIENT



BAUER Technologies Ltd
 Millers Three
 Southmill Road
 Bishops Stortford
 Herts
 CM23 3DH

PROJECT
**YORK POTASH MINE
 OFFICE AND WELFARE LAYOUT**

DRAWING TITLE
OFFICE AND WELFARE FOR 100 PEOPLE

SCALE NTS	BTL DRG No.	REV C
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EXAMPLE PICTURES OF WELFARE & OFFICE BUILDING

