



# RAMS – Risk Assessment Method Statement

<b>Document No.:</b>	40-AMC-WS-72-SW-RA-0001	<b>Rev:</b>	0
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<b>PART 1 – General Details</b>			
<b>Title of method statement:</b>	<b>Phase 3 – Concrete Batch Plant Set Up</b>		
<b>Contract Name:</b>	Early Contractor Involvement (ECI)	<b>Contract Number:</b>	RPA-127
<b>Site Address &amp; Telephone No:</b>	AMC UK Site Office, Woodsmith Mine, Off B1416, Sneatonthorpe YO22 5HZ	<b>Start Date:</b>	04-June-2017
		<b>Finish Date:</b>	09-Oct-2017
		<b>Duration:</b>	18 weeks
		<b>Working Hours:</b>	6 am – 6 pm / 7 days per week
<b>Location of Works:</b>	Sneatonthorpe		
<b>Scope of Works / Work Activity:</b>	Install and commission the concrete batch plant.		

<b>PART 2 – RAMS Sign Off, Consultation and Review</b>					
	Signed	Print Name	Position/Status	Date	Notes
<b>Prepared by</b>		Steve Farrell	Site Planning and Preparation	29/03/2017	To be completed by Person Preparing Method Statement or Sub-Contractor)
<b>Employee consultation</b>		TBD	Project Manager		Persons carrying out the work MUST be consulted and sign here
<b>Tech review by</b>		Jonathan White	Project Director	29/03/2017	To be completed by a Competent Person or Sub-Contractor)
<b>H&amp;S, Env. review by</b>		Hugh Medcalf	Environment Advisor	29/03/2017	To be completed by a Competent Person
<b>Authorised for construction (Contractor / Peer Review)</b>		Jürgen Franz	Engineering Director	29/03/2017	To be completed by the Contractor or a peer of the person preparing the RAMS
<b>Rejected by</b>					To be completed by the Contractor or Competent Person

The RAMS must be reviewed by someone other than the person who has prepared it.












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PART 3 – Personnel and Resources			
	Labour (Role/Trade and number of)	Qualification Required, to be shown at induction	
<b>Resources Required:</b> (Including supervision)	1 x Site Manager 1 x Supervisor 1 x Engineering/QAQC  See Appendix A for Labour Loading	Management Safety Certification Supervisor Certification Safety Certification	
<b>Subcontractors</b>	2 x Supervisors 2 x Mobile Crane Operators 2 x Machine Operators 4 x Mechanics 3 x Electricians 5 x Labourers  See Appendix A for Labour Loading	Supervisor Certification Crane Operator Certification Operator Certification Trade Certificate Trade Certificate	
	<b>How will they be supervised</b>	Subcontractor Supervisors & AMC UK	
<b>Plant and Equipment:</b>	Refer to the Plant Register in Appendix B.		
<b>Materials:</b>	<b>Civil Works:</b> Form work Rebar / wire mesh Concrete Grout Aggregate Piping Electrical cables Precast barriers	<b>Batch Plant:</b> Mixing plant Feed Hoppers Feed Conveyor Control room Silos Water Tanks Compressor Stairs, ladders and landings Cladding Concrete reclaimer Generators Storage containers Welfare facilities Concrete Aggregate	

## PART 4 – Key Operational Risks Identification

Key Operational Risks	Reference	Applicable to this activity Y/N
Site access, deliveries and removal of materials	Procedure	Y
Avoidance of buried underground services	Dig Permit	Y
Stability of structures		N
Demolition operations		N
Temporary works		Y
Prevention of falls / work at height	Procedure	Y
Control of lifting operations	Procedure and Lift Plans	Y
Plant and machinery	Procedure	Y
Excavations	Procedure	Y
Confined spaces		N
Working near open water		N
Working with compressed air	Procedure	Y
Cutting/Grinding operations	Hot Work Permit	Y
Personal protective equipment	Procedure	Y
Working on electrical systems	Procedure	Y
Manual handling	Procedure	Y
Control of substances hazardous to health (COSHH)	COSHH Manual	Y
Noise	Procedure	Y
Vibration	Procedure	Y
Non-English speakers		Y
Environment risk assessment	Phase 3 Environmental Aspect and Impacts Assessment (EAIA)	Y
Site waste management	Site Waste Management Plan (SWMP)	Y
Site pollution or water contamination	Environmental Emergency Preparedness Plan (EPPP)	Y
Site – protected animals		N
Site – hedgerows		N
Oil storage	Procedure	Y
Refuelling / Mobile Refuelling	Procedure	Y

## PART 5 – COSHH

COSHH Assessment									
Applicable			Y			Y	Y	Y	
	Explosive	Oxidizing	Highly Flammable	Acutely Toxic	Corrosive	Hazardous to Environment / Aquatic Life	Skin/Eye Irritant	Long Term Health Hazard	Gas under Pressure



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### PART 6 - Record of Reviews of RAMS

#### RAMS Review Record

The RAMS must be reviewed upon a significant change and after a maximum of every 30 days.  
Following each review the RAMS must be re-briefed to the team

Date of Review	Notes	Signature
01-Feb-2017	Rev. A for Internal review	SF
23-Feb-2017	Rev. B for Project review	SF
27-Mar-2017	Rev. C revised as per Project comments	SW
29-Mar-2017	Rev. 0 Issued for Use	SW



# Risk Assessment

## PART 7 – Risk Assessment

Activity / Task Individual elements of the task being carried out	Hazard Anything with the potential to cause harm.  Include H&S, Environmental, Operational / Process and Design hazards	People Affected E=employee S=Sub-contractor V=visitor P=public O=other	Potential Outcome e.g. injury, damage etc.	Pre-Control Risk Assessment			Control Measures required Control measures must be effectively implemented if they are to work as intended  Include the title and controls of the applicable Operating Procedures identified in Part P4	Post Control Risk Assessment Have risks been reduced as far as reasonably practical			Risk Ranking
				Likelihood 1 - 5	Severity 1 - 5	Risk Score 1 - 25		Likelihood 1 - 5	Severity 1 - 5	Risk Score 1 - 25	
Access to site	Live traffic	E/S/V/P	Road traffic accident causing injury	2	5	10	<ul style="list-style-type: none"> <li>Access to site will be via the new Haul Road or Over-Size Access, off B1416.</li> <li>Signage will be in place to forewarn vehicles of the site access junction.</li> <li>Deliveries are to be staggered to prevent large numbers of vehicles accessing site at the same time.</li> </ul>	1	5	5	Low
Deliveries	Offloading and storage of materials	E/S	Injury due to materials being offloaded/stored incorrectly	2	4	8	<ul style="list-style-type: none"> <li>Supervisor or delegate to control all deliveries.</li> <li>Offloading to be undertaken using mobile equipment.</li> <li>Loose items to be palletized, where possible.</li> <li>Materials to be stacked securely.</li> <li>Stacking heights to be limited to 2 m where practical.</li> </ul>	1	4	4	Low

LIKELIHOOD	RATING	SEVERITY - HEALTH	SEVERITY - SAFETY
Almost Certain (>90%)	5	Multiple worker deaths e.g. Asbestos / Silica dust	Fatal accident to member of public or worker
Probable (50% - 90%)	4	Single worker death / life shortening health effect e.g. Lung disease	Major injury (RIDDOR) resulting in lost time. Irreversible disability
Possible (10% - 50%)	3	Irreversible health effects e.g. Loss of hearing, HAVS, Serious dermatitis	Injury resulting in over 7 days lost time
Remote (1% - 10%)	2	Reversible health effects e.g. Minor dermatitis, respiratory, treatment off site	Injury resulting in 1 to 7 days lost time
Unlikely (<1%)	1	Minor health effect for short period, no lost time e.g. skin irritation	Injury requiring First Aid but no lost time

Severity	Likelihood					RISK RANKING	ACTION REQUIRED
	1	2	3	4	5		
5	5	10	15	20	25	High (12 – 25)	Do NOT start task; either engineer or design out the hazard, look at alternative methods
4	4	8	12	16	20		
3	3	6	9	12	15		
2	2	4	6	8	10	Medium (7 – 11)	Do NOT start task; impose further control measures such as alternative methods or plant / materials
1	1	2	3	4	5		
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Use of mobile equipment	Mobile equipment	E/S	Severe injury or death	2	5	10	<ul style="list-style-type: none"> <li>Designated haul routes to be established across site.</li> <li>Working areas to be taped/barricaded/fenced as necessary.</li> <li>All equipment to have reversing beepers.</li> <li>Operatives to maintain a safe distance from operated plant (e.g. outside of slew area of excavators).</li> <li>All equipment operators to hold training.</li> <li>Equipment to be operated in line with manufacturer's guidance (e.g. seat belts).</li> <li>All people on site to wear high-visibility PPE.</li> </ul>	1	5	5	Low

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Use of mobile cranes	Mobile cranes Lifted loads	E/S	Severe injury or death Property damage	2	5	10	<ul style="list-style-type: none"> <li>Working areas to be taped/barricaded/fenced as necessary.</li> <li>Cranes to set up on stable ground and away from overhead hazards e.g. cables.</li> <li>All equipment to have reversing beepers.</li> <li>All lifting equipment to undergo statutory inspection at regular intervals, as required.</li> <li>All persons to maintain a safe distance from mobile cranes.</li> <li>All crane operators to hold relevant competency tickets.</li> <li>Cranes to be operated in line with manufacturer's guidance (e.g. seat belts).</li> <li>All people on site to wear high-visibility PPE.</li> <li>Use lift plans.</li> </ul>	1	5	5	Low

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Construction works	Slips, trips and falls	S/E	Injury	2	4	8	<ul style="list-style-type: none"> <li>Excavations to be backfilled as soon as possible.</li> <li>Excavations to be taped/barricaded/fenced as necessary.</li> <li>Materials and other equipment not in use are to be stored appropriately and not congest the working area.</li> <li>Loading/unloading to be carried out on level ground, within designated areas.</li> <li>Operatives to be informed of the presence of swales and drainage ditches.</li> </ul>	1	4	4	Low

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Work at height	Falls from height	S/E	Fatal fall, falling objects	2	5	10	<ul style="list-style-type: none"> <li>Work at height to be avoided if possible</li> <li>Edge protection to be provided where required</li> <li>Work at height equipment suitably inspected by a competent person at regular intervals</li> <li>Suitable fall protection to be provided where necessary e.g. safety harness</li> <li>All persons provided with suitable information, instruction, training and supervision.</li> </ul>	1	5	5	Low

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Use of COSHH materials (concrete, cement, etc.)	COSHH materials	E/S	Injury	3	3	9	<ul style="list-style-type: none"> <li>Use of COSHH materials to be avoided where possible.</li> <li>All COSHH materials to be stored in a lockable, banded COSHH store at the Woodsmith Mine when not in use.</li> <li>COSHH Assessments to be produced for all COSHH materials, including fuel, oil, cement, concrete.</li> <li>SDS (safety data sheets) to be held on site and readily accessible at all times during site works.</li> <li>Only trained and competent operatives to use COSHH materials, in line with COSHH Assessment.</li> <li>Suitable PPE to be provided in accordance with COSHH assessment findings.</li> <li>First-aid arrangements provided including trained personnel, first aid kit and eye wash station.</li> <li>Suitable health surveillance to be provided where necessary.</li> </ul>	2	3	6	Low

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Lifting of heavy/bulky objects	Manual handling	E/S	Injury	3	3	9	<ul style="list-style-type: none"> <li>Manual handling to be avoided where practicable (e.g. through mechanical lifting).</li> <li>For bulky objects which can be safely lifted by hand (e.g. small drainage pipes), use 2-person lifting.</li> </ul>	2	3	6	Low
Placing form work and rebar	Struck by materials or tools	E/S/V	Injuries	3	2	6	<ul style="list-style-type: none"> <li>Use of Field Level Risk Assessments</li> <li>Conduct start of shift safety meeting</li> </ul>	2	2	4	Low
Placing concrete	Struck by materials or tools	E/S	Injuries	2	2	4	<ul style="list-style-type: none"> <li>Use of Field Level Risk Assessments</li> <li>Conduct start of shift safety meeting</li> </ul>	1	2	2	Low
Specialist works	Various	E/S/V/P	Various	-	-	-	<ul style="list-style-type: none"> <li>Risk assessments to be produced by appointed contractors for all specialist works.</li> </ul>	-	-	-	-

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		Likelihood						



# Method Statement

## PART 8 – Contacts and Emergency

Emergency Contact Numbers	Name:	Contact Number:
Person Responsible For Works	Jonathan White	+
Supervisor	TBD	TBD
Hospital	Scarborough General (A&E) Whitby Community Hospital (medical treatment only)	(EMERGENCY 999/112)
First Aider	TBD	
Location of First Aid Box	First Aid boxes will be available at the Site Offices, Concrete Batch Plant, and within all AMC UK vehicles.	
Process Impact Assessment Contacts	N/A	
Gas Emergency Call Out	National Grid	
Electricity Emergency Call Out	Northern Power Grid	
Water Emergency Call Out	Yorkshire Water	
Sewage Emergency Call Out	Yorkshire Water	0
Emergency Procedures & Permits Required	Permit to Excavate, Permit to Lift	

## PART 9 – Method Statement

### Overview of Works

The purpose of this project is to construct the temporary concrete batching plant for future shaft construction works on a prepared platform. The works comprise:

- Installing temporary office and welfare facilities.
- Installing temporary concrete batching plant slabs.
- Installing a temporary wedge pit/sump.
- Erecting the temporary concrete batching plant.
- Installing temporary concrete recycling equipment.
- Installing temporary generators.
- Installing temporary water storage tanks.

See Appendix C for the site master plan, and concrete batch plant plan view and sections.

See Appendix D for information on typical water storage tanks.

### Housekeeping

- This scheme involves the co-ordination of a number of elements of work, including earthworks, concrete construction and mechanical installation; as such, high standards of housekeeping are of particular importance.
- All materials not being used during the days work must be transported and stored at the designated location within the site.
- Materials transported onto site for incorporation into the works must be stored close to the relevant working area.
- Daily inspections on housekeeping will be undertaken.

### Delivery and Storage of Materials

- See the Phase 3 Project Management Plan document number 40-AMC-WS-71-PM-PL-0001, Section 3.2.4.

### Abnormal Loads

The estimated abnormal loads, with reason(s) in parenthesis, related to setting up the concrete batch plant are:

- 1 x Batch Plant Mixer Assembly (width)
- 1 x Batch Plant Weighting Unit (width)
- 6 x Batch Plant Cement Silos (length)
- 2 x 73t Truck Crane (axles over weight)

- 1 x 5m<sup>3</sup> Front End Loader (width)

See Appendix B for the Plant Register.

### **Re-fuelling (generally)**

- Fuel deliveries and re-fuelling of plant and equipment will be undertaken in accordance with AMC UK's pollution prevention guidance. The Fuel Storage and Handling Pollution Prevention Guidance is included in the Phase 3 Environmental Management Plan (EMP). See document number 40-AMC-WS-71- EN-PL-0001, Appendix B.
- Re-fuelling of small plant and equipment will be undertaken with a spill-kit in place at all times during the re-fuelling operation.
- Should any spillages occur, AMC UK's Environmental Emergency Preparedness Plan (EPP) contained in the Phase 3 Environmental Management Plan (EMP) will be followed. See document number 40-AMC-WS-71- EN-PL-0001, Appendix B.

### **Re-fuelling on site with fuel trailer**

- A towable fuel trailer will be taken to suitable locations and secured.
- Re-fuelling with fuel trailer will be undertaken away from any pollution pathways such as watercourses, open excavations and other areas with pathway to the groundwater.
- The machine shall approach the fuel trailer with care; use a spotter when necessary.
- Adequate space will be maintained between the machine and fuel trailer, ensuring space for the pump operator without being so far away that the hose becomes stretched or a trip hazard.
- The machine shall apply its parking brakes and the engine turned off; on level, firm ground.
- A dip tray will be placed on the ground under the tank inlet and other places where dripping might occur.
- Spill absorbent pads and spill kits need to be available for catching any spill that might occur during re-fuelling.
- The machine's bonnet/hatch door will be secured to prevent it from swinging shut.
- The cap from the machine's fuel tank will be removed.
- The fuel trailer's generator will be switched on.
- The hose will be extended and the hose nozzle locked into the fuel tank when possible.
- Refuelling the machine will be undertaken at an appropriate flow speed to prevent overfilling.
- The refuelling of machines will always be supervised throughout the whole process, even at automatic refuelling fuel trailers.
- Upon refuelling the machine, the fuel trailer's generator will be switched off, the nozzle will be shaken into the machine fuel tank, the fuel tank cap secured, and the hose will be placed back into the designated location.
- The machine and the ground around the refuelling point will be inspected for spillages.
- Should any spillages occur, the spill reporting and clean up procedure will be followed.

Fuel deliveries are to be undertaken in bulk loads to reduce the number of deliveries to site.

6,000 litre fuel trailers, double skinned with at least 110% secondary containment, are to be used at the site to provide adequate storage in case inclement weather affects planned deliveries.

Spill absorbent pads and spill kits will be immediately available as a precaution.

### **Permit to Excavate**

- A Permit to Excavate will be issued ahead of all mechanical excavation works; the Permit will detail all known underground utilities and stipulate a safe system of work for excavation which may include CAT scanning and trial holes to locate all known services.

### **Compound Fencing**

- 2 m tall anti-climb fencing will be provided by others around the work site perimeter.
- Temporary fencing may be in place of the anti-climb fencing.

### **Concrete Batch Plant Excavation**

The following plant will be used to undertake the excavation works:

#### **Excavator**

- Excavators will be used for mechanical excavation works associated with slabs and foundations.

#### **Front End Loader**

- A front end loader will be used to excavate for shallow slabs.
- A front end loader may be used to remove excavated material from the immediate construction area. Alternatively, it may be used for backfilling after concrete forms are removed.

### **Wheel Wash**

- If tires become soiled, the project provided wheel wash will be used if equipment such as mixer trucks use the public road to transport concrete.

### **Setting Out**

- All works will be undertaken to a line and level marked on site by a surveyor.

### **Archaeological Considerations**

- Works will be carried out on a prepared platform already checked for archaeological items. As such, AMC UK does not expect any archaeological encounters.
- Should any archaeology be encountered at any stage of the works, excavation works will stop, an exclusion zone will be established, and the guidance of a qualified archaeologist will be followed.

### **The Importance of Surface Water Management During Construction**

- High levels of silt suspended in water can suffocate fish by clogging their gills, can remove essential

oxygen from the water and can kill plants, animals and insects living in the water by stopping sunlight reaching them.

- Silt pollution spoils the appearance of watercourses, is easily traceable to the site from where it originated and in the past has been a major cause of prosecution.
- When a site is water logged, water accumulates on the surface which is associated with several types of hazards and inconveniences, including:
  - Unsafe surfaces for vehicle traffic.
  - The concealment of trip hazards on the ground or excavations.
  - Aiding in the transportation of contaminated or polluted water.
  - Hosting wildlife such as rats, exposing site operatives to disease.
  - Halting progression of works.
  - Erosion of surfaces.
  - Pollution of watercourses.
  - Reduction of stability and bearing capacity of excavations, slopes or cuttings.

### **Measures to Reduce Silt Generation**

- The work site will be prepared by others complete with ditches, filters, clean-outs, etc. AMC UK will monitor the water management system which it affects and will perform remedial action as necessary. Such action may include stopping excavation works during heavy rain, or adding filter material (e.g. bales of heather/hay) to the system.

### **Concrete Batch Plant Installation – Sequence of Works**

The following sequencing will be undertaken:

- Setup welfare facilities. The welfare is detailed below.
- Stake out the excavations for concrete slabs and the wedge pit. This will include concrete works for the batch plant, silos, aggregate bins, conveyors, and concrete reclaimer.
- Excavate for the concrete works.
- Form the slabs while installing reinforcing bar / wire mesh.
- Install anchor bolts and inserts which will be cast in the concrete.
- Install services conduits.
- Cast the concrete.
- Prepare and stage batch plant components while the concrete is curing.
- Erect the batch plant components when the concrete is cured sufficiently to support the loads.
- Strip the concrete forms after sufficient curing.
- Backfill and compact around the slabs.
- Continue erecting the batch plant components.
- Install electrical as practical concurrent with the mechanical installation.
- Install the generators (one working and one back up) and fuel trailer.



- Grade the area with gravel.
- Commission the concrete batch plant.

### **Details of Welfare**

- The following welfare will be provided by AMC UK for this phase and will be set up at the beginning of the construction sequence:

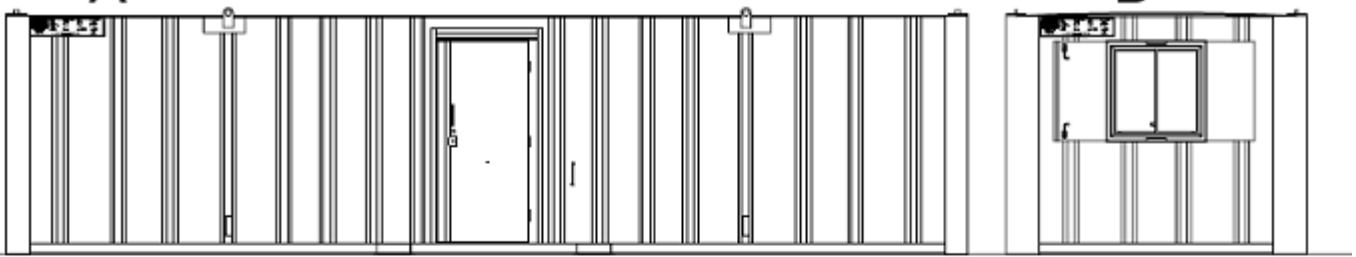
The following facilities will be provided at the Woodsmith Mine by AMC UK for setting up the concrete batch plant:

- 1 x Site office
- 1 x Site office with kitchenette
- 1 x Canteen with kitchenette
- 1 x Toilet block
- Washing facilities with hot running water within toilet block and kitchenettes
- 1 x Drying room
- 1 x Generator for welfare facility power

For location of the welfare installation please refer to the Site Layout drawing in Appendix C.

### ***Typical Office/Welfare/Storage Units to be Used***

Office/Canteen/Meeting/Drying Room (9.8 m x 3.1 m x 2.5 m tall), steel construction, colour to be RAL 6008, Brown Green:



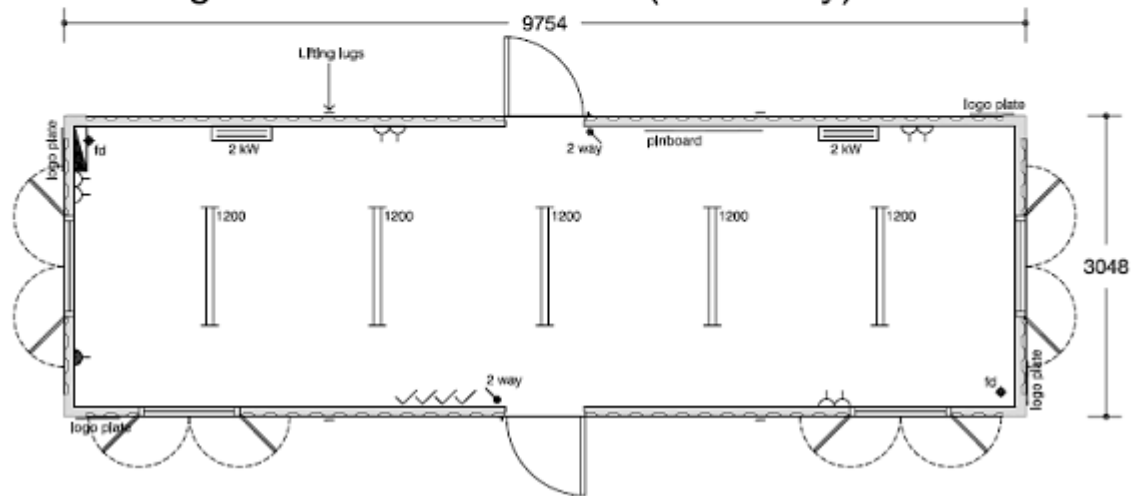
ELEVATION

C

Building Size 9.754m x 3.048m (Externally)

ELEVATION

D

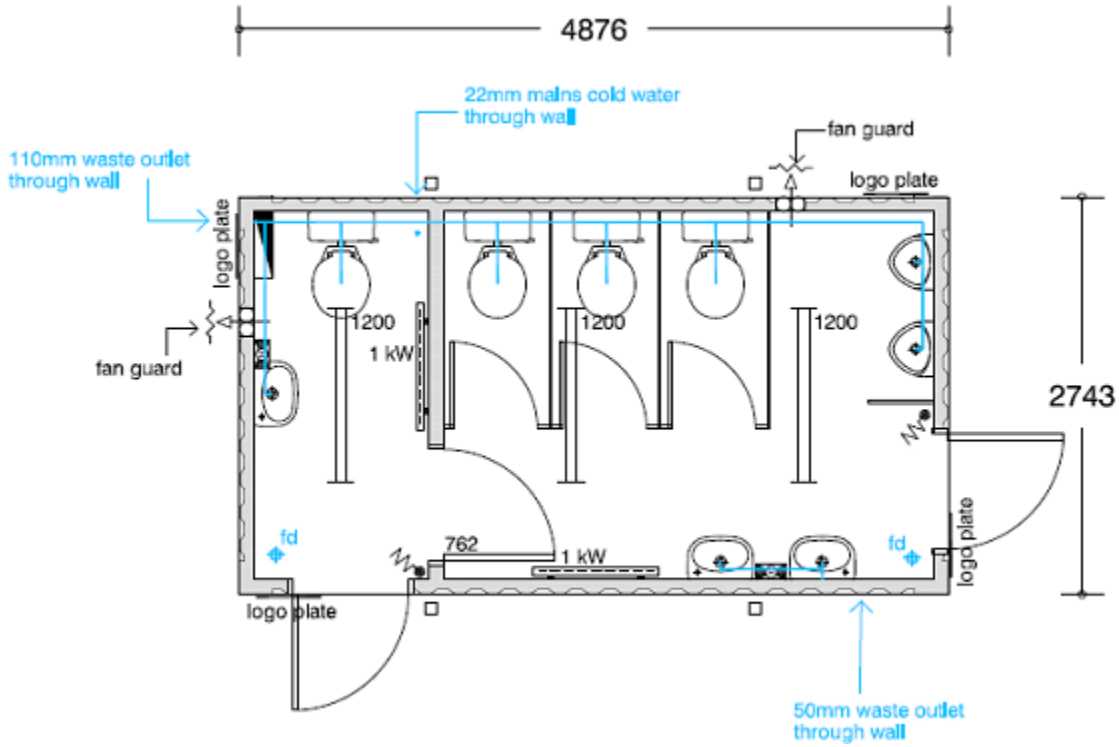


B



Office Container, typical

Toilet unit (4.9 m x 2.8 m x 2.5 m tall), steel construction, colour to be RAL 6008, Brown Green:





## Method Statement

### Appendices:

**Appendix A – Labour Loading**

**Appendix B – Plant Register**

**Appendix C – Drawings**

**Appendix D – Typical Water Tanks**



## Method Statement

### Appendix A – Labour Loading

**Sirius Minerals - Woodsmith Mine**

**Phase 3 - Concrete Batch Plant Installation and Commissioning**

**AMC UK Labour Loading**

Month	Site Management Dayshift 6 am - 6 pm Mon. - Fri.	Site Management Nightshift 6 pm - 6 am Mon. - Fri.	Site Operatives Dayshift 6 am - 6 pm Mon. - Fri.	Site Operatives Nightshift 6 pm - 6 am Mon. - Fri.	Total Dayshift 6 am - 6 pm Mon. - Fri.	Total Nightshift 6 pm - 6 am Mon. - Fri.	Total Number of Locals	Total Number of In-Migrants	TOTAL
Jun-17	5	0	16	0	21	0	13	8	21
Jul-17	3	0	5	0	8	0	5	3	8
Aug-17	3	0	5	0	8	0	5	3	8
Sep-17	3	0	5	0	8	0	5	3	8
Oct-17	3	0	5	0	8	0	5	3	8



## Method Statement

### Appendix B – Plant Register



**Sirius Minerals - Woodsmith Mine**

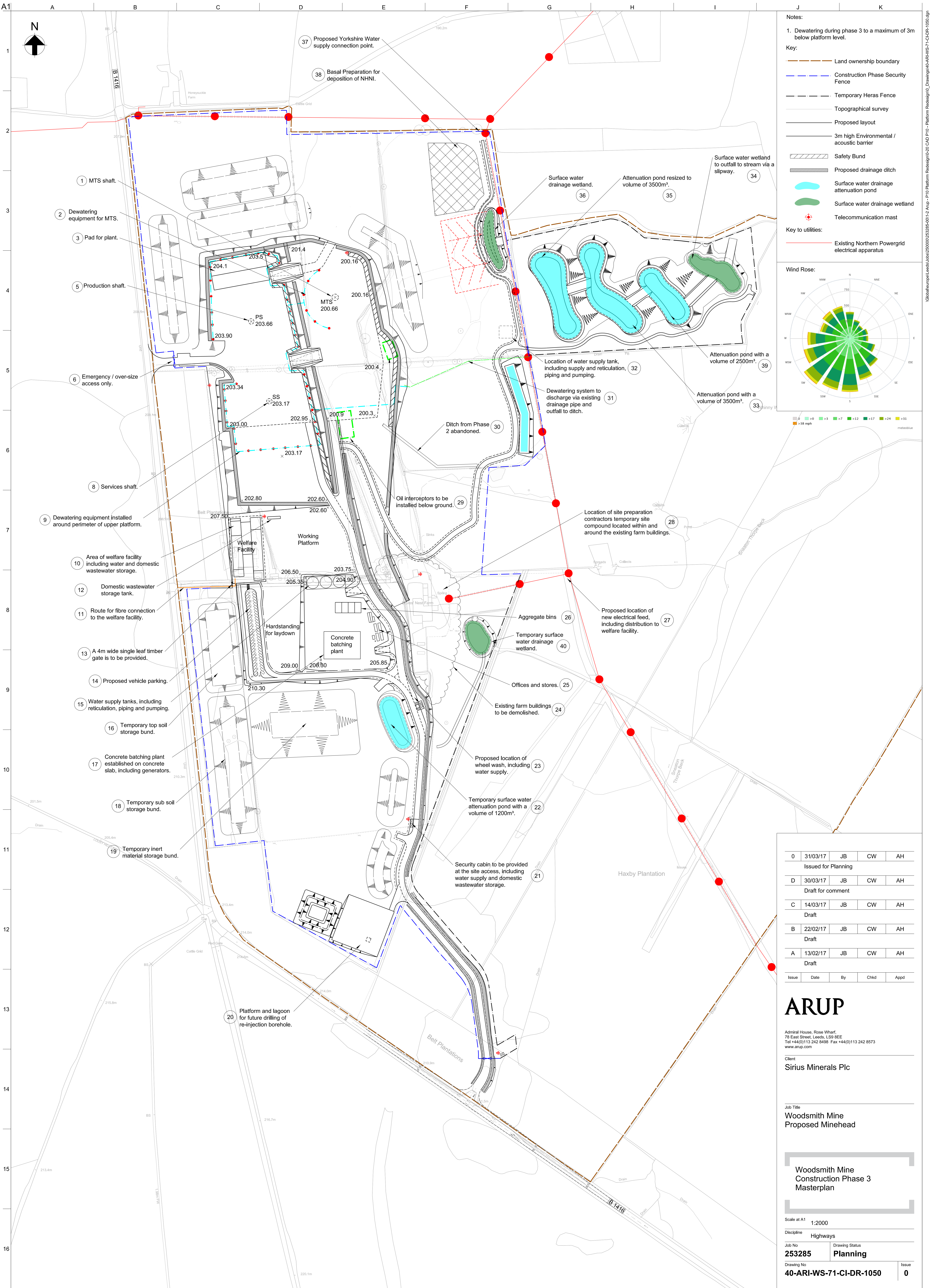
**Phase 3 - Concrete Batch Plant Installation and Commissioning  
Plant Register**

Plant	Numbers	Type	Sound power level LWA [db(A)]	Sound pressure level LpA [db(A)]	Power rating [kW]	% on-time	Start	Finish	24 hour working	Comments
Concrete Batch Plant	1 Unit (18 truck loads)	Liebherr Mobilmix 2.5	As per noise emission forecast, Appendix X	As per noise emission forecast, Appendix X	140	50	4-Jun-17	N/A	Day only	New
73t Mobile Crane	2	Terex T780 or similar	110		335	50	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
5m³ Front End Loader	1	Cat 966M or similar	108		232	70	4-Jun-17	N/A	Day only	New / Less than 5 years old
6T Telehandler	1	Cat TL1255C or similar	104		106	50	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
0.76m³ Excavator	1	Cat 316F L or similar	102		88	50	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
18m Telescopic Boom Lift	1	JLG 600S or similar	104		62	50	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
8m³ Concrete Trucks	2	DAF CF 400MX-11 or similar	106		291	50	18-Jun-17	N/A	Day only	New / Less than 5 years old
1 MVA Batch Plant Generator	1	Frerk	103.3	85 @ 1 m 80 @ 7 m	800	50	18-Jun-17	N/A	Day only	New / Less than 5 years old
1 MVA Batch Plant Generator	1	Frerk	103.3	85 @ 1 m 80 @ 7 m	800	0	18-Jun-17	N/A	Back Up	New / Less than 5 years old
350 kVA Batch Plant Welfare Generator	1	Inmesol	95	72 @7 m	280	100	4-Jun-17	N/A	Day only	New / Less than 5 years old
350 kVA Sub-contractor Welfare Generator	1	Inmesol	95	72 @7 m	280	100	4-Jun-17	N/A	Day only	New / Less than 5 years old
Fuel Tank, towable, 6000 L, double bunded	2	-	N/A	N/A	N/A	N/A	4-Jun-17	N/A	Day only	New / Less than 5 years old
Fuel Tank stationary, 6000 L, double bunded	2	-	N/A	N/A	N/A	N/A	4-Jun-17	N/A	Day only	New / Less than 5 years old
Delivery Lorries	Estimated: 8 per day	various: 20' rigid, 45' artic, low loaders	85		150	25	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old Estimated average values
MEWP	2	Z45D or similar	85		36	25	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
Hand tool: Saw	4	tbc	91		1	5	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
Hand tool: Drill	4	tbc	91		1	5	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old
Welding set	3	Miller	82		35	25	4-Jun-17	1-Jul-17	Day only	New / Less than 5 years old Estimated average values

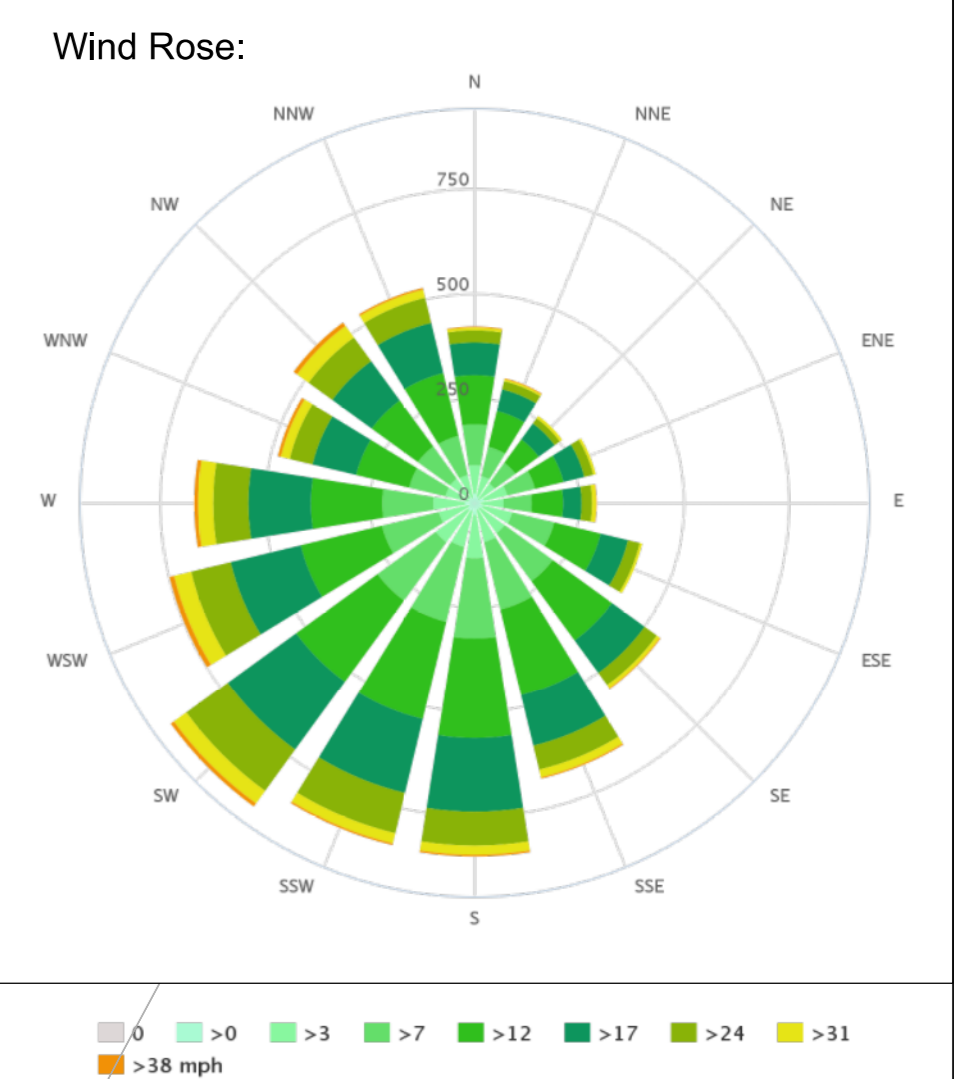


## Method Statement

Appendix C – Drawings



- Notes:
- Dewatering during phase 3 to a maximum of 3m below platform level.
- Key:
- Land ownership boundary
  - Construction Phase Security Fence
  - Temporary Heras Fence
  - Topographical survey
  - Proposed layout
  - 3m high Environmental / acoustic barrier
  - Safety Bund
  - Proposed drainage ditch
  - Surface water drainage attenuation pond
  - Surface water drainage wetland
  - Telecommunication mast
- Key to utilities:
- Existing Northern Powergrid electrical apparatus



0	31/03/17	JB	CW	AH
Issued for Planning				
D	30/03/17	JB	CW	AH
Draft for comment				
C	14/03/17	JB	CW	AH
Draft				
B	22/02/17	JB	CW	AH
Draft				
A	13/02/17	JB	CW	AH
Draft				
Issue	Date	By	Chkd	Appd

**ARUP**

Admiral House, Rose Wharf  
 79 East Street, Leeds, LS9 9EE  
 Tel +44(0)113 242 8498 Fax +44(0)113 242 8573  
 www.arup.com

Client  
**Sirius Minerals Plc**

Job Title  
**Woodsmith Mine  
 Proposed Minehead**

**Woodsmith Mine  
 Construction Phase 3  
 Masterplan**

Scale at A1 1:2000  
 Discipline Highways  
 Job No 253285  
 Drawing Status Planning  
 Drawing No 40-ARI-WS-71-CI-DR-1050  
 Issue 0





## Method Statement

### Appendix D – Typical Water Tanks



Typical Water Tanks  
15 m diameter x 6 m high  
Tank Walls Colour: RAL 6008, Brown Green  
Cover Colour: Black