

Our Risk Assessment And Method Statement Open Bore Piling

Site: Larchwood House, Great Saling CM7 5DX

Client: Philip Smith

Project Ref: 2074

Project Summary:

23 of 300mmØ SFA Open Bore Piles & 115m² RC Raft

Key dates for the project

Mobilisation to site : TBC

Commencement of Piling : TBC

Completion of Piling (provisional) : TBC

Commencement of RC Raft : TBC

Completion of RC Raft (provisional) : TBC

Detail of who is on site, their role and their contact details:

Site Team TBC

Method Statement for: Open bored piling

Key Plant and tools

Piling rig
Concrete Pump
Digger
Dumper

Key Materials

Reinforcement steel as specified by design
Concrete as specified by design
Spill kit
Rebar protection caps

Activities

Activity: Mobilisation and Site Set Up

The site is currently set up in line with the site requirements and is operational as a construction site.

All vehicles will enter site as per the designated route agreed at Pre-Start Meeting. All vehicle movements will be supervised by a Labourer.

Unloading and storing of equipment and materials will take place at a position agreed at Pre-start. The Foreman will assess this position prior to unloading, taking into consideration other contractors, pedestrians, traffic routes etc.

The Foreman will make sure that all loads are checked for security before unloading commences. A sequence of unloading will be agreed with the Labourer & the Delivery Driver. The Banksman will take control of the safe unloading of equipment & materials & directing the HIAB operator.

In the event of a load having moved or become unstable in some way during transport, unloading will not continue until a safe means of unloading has been determined. Unstable loads should not be allowed to tip or fall to the ground unless there are no other safe options & only after advice has been sought from the Line Manager.

Any provisions for unloading that are already on site will be used to safeguard work at height. The Banksman is responsible for the safe unloading of equipment & materials & directing the HIAB operator. Where possible equipment & materials will be pre-slung to facilitate offloading. Access to trailers will be from a secured or footed ladder.

Waste materials will be kept to a minimum & disposed of in accordance with the site's Waste Management Plan or Agreement.

Fuels will be stored in double-skin fuel bowzers or Jerry Cans at a designated point agreed by the Main Contractor

Noise levels from all plant will be reduced whenever reasonably practicable. All plant will be fitted with efficient silencers. All engines will be switched off when not in use.

Reinforcement cages will be produced on site, they will be constructed on fabrication trestles by CSCS/NPORS trained personnel, working within a fabrication area on the piling mat. Materials will be transported by the attendant excavator. Cages will be transported around site horizontally on two leg chains. Subcontractor risk assessments will be required unless they are working in accordance with our procedures.

The crew shall maintain good housekeeping at all times to reduce slip/trip hazards.

Main contractor on site is to ensure all pile locations are marked and are clear of services. All close proximity services are to be marked in an appropriate manner.

Activity: Pile installation

Two persons must be in attendance when operating or moving the rig.

Throughout the piling process the exclusion zone around the rig will be policed by the Banksman to prevent access by other contractors. Guarding fitted to rigs must remain in place throughout the piling process, only being opened to allow sections of auger to be added, or spoil cleared. Where piling cannot be completed with interlocked guarding in place, work will stop & further instruction sought from the Contracts Manager. Any instructions must be recorded in the Guarding Risk Assessment.

All pile locations are to be marked out and identified by an appropriate person with consideration to drawings provided.

Each piling location is to be prepared with due consideration to be given to proximity of water courses and vegetation to be preserved.

Where appropriate a suitable bund is to be placed at the working area to mitigate the potential risk of liquid spills and or spoil entering the water course or other vulnerable receptors. In addition to this a spill kit is to be available at the piling location for immediate use in the event of an incident

The piling rig will tracked into position under the supervision of the banksman, & the mast and auger plumbed vertical prior to drilling. The flight auger will then bore into the ground to the required design depth.

Drilling will commence only when all necessary checks have been completed and it is safe to proceed.

Auger sections will be added and removed by hand / using the auxiliary winch or attendant excavator to lift each section into position. Dependent on the auger length, the second man will access the top joint from ground level or standing on cleared clamps. Short ladders, tied or footed may also be used as access. There shall be NO climbing of augers.

The rig driver operator is responsible for making sure that no spoil that could cause injury rides up the auger above head height. Spoil will not be removed by hand when the auger is rotating.

Once the correct depth has been achieved augers are to be withdrawn.

During withdrawal of the augers the piling team are to ensure that the working area is kept clear of unauthorised personnel.

Once all the augers have been extracted the rig will track off the pile position under the supervision of the Banksman & the excavator. The attendant excavator will clear the spoil from the pile position to a stockpile for disposal.

The reinforcement cage is then either manually lifted into position, or lowered by the excavator into pile bore.

Concrete, as per specification, is to be placed in the pile bore to the required level as per design.

Plastic protective caps will be placed on the tops of the reinforcing to aid visibility & prevent injury.

Activity: Fabrication of pile cages

All reinforcement to be supplied by a CARES approved supplier.

The Principal Contractor shall set aside a suitable area for the assembly of reinforcement cages, together with an adjacent area for storage of reinforcement bars, helical and completed cages. This area needs to physically be segregated from traffic by fencing or similar, to avoid danger to steel fixers or damage to cages.

The Leading Steel fixer is to construct the cages in line with the design specification. The bars and helical will be assembled into cages using purpose made stands onto which bars are loaded to give stability. As each cage is completed it is removed from the assembly stands either by hand in the case of lightweight cages or by crane/excavator for heavier cages.

After fabrication, the cages are to be stored on timbers or clean hardcore to avoid contamination by soil.

Activity: Recording of activity

Activity is to be recorded and reported to the Project Manager on a daily basis in the daily site report. This will include the information relating to the actual installation of the piles for company and client records.

All variations from the design are to be included in the daily site report.

All reports are to be available as and when requested.

Activity: Quality and Health and Safety review.

A representative from Capital Piling Ltd will attend site at intervals to monitor and record Quality and Health and Safety in line with site requirements and company procedures.

Disposal of waste material

All waste material will be disposed of in accordance with current legislation and site specific requirements.

SUMMARY

Site Rules

- Site personnel must use correctly any personal protective equipment that is issued to them.
- The site is a designated hard hat area. Safety helmets must be worn by everyone in all areas unless a specific exemption has been made in writing by the contract management.
- Operatives must wear suitable footwear at all times.
- Eye, ear, hand protection etc. must be worn for all cutting, grinding and drilling operations. Face masks will be worn if directed by the Site Safety Supervisor.
- Appropriate PPE is to be worn as directed by the Site Safety Supervisor for the handling and use of hazardous substances, chemicals, liquids and gases.
- Ear protection must be worn when operating mechanically or electrically powered plant or when working in the close vicinity of noisy operations or where the noise level exceeds 80 db(A)
- Personnel must know and understand all written emergency procedures and know the location of any muster points and first aid posts. These are defined in the site specific information procedures and sign posted as appropriate.
- All injuries, however minor, must be reported to the Site Safety Supervisor and entered into the site accident book at the earliest opportunity.
- Employees must know the location of the Company COSHH chart of generally assessed substances and follow the guidance given before using any substances on site. If the substance is to be used in large quantities for prolonged periods of time or used in a restricted or confined space then a specific written assessment must be carried out by the Site Safety Supervisor prior to use.
- A specific assessment and procedure must be followed for dealing with live sewage.
- No work activity is to take place within a confined space without a detailed Risk Assessment being carried out by the Site Safety Supervisor who will instruct the work activities accordingly.

- The consumption of alcohol or illegal drugs on site is forbidden. Any person suspected of being under the influence of alcohol or drugs will be removed from site.
- Site personnel have the responsibility to ensure their own safety and that of other persons on site including visitors and the general public.

Required PPE

- Safety Boots
- Hard Hat
- Safety Gloves
- Eye Protection
- Hi Viz
- Hearing Protection

Additional PPE as identified by site operator if needed.

COSHH

All COSHH controlled materials on site are to have the up to date safety data sheet available for each specific item.

Emergency Procedures

- Main contractor will induct all site operatives into the site-specific emergency arrangements.
- Capital Piling's crews are equipped with a number of 2kg dry powder extinguishers and first aid provisions to complement the main contractor's arrangements.
- Emergency First Aid & Fire awareness training has been completed by the crew.
- Spillage kits will be provided and our crews instructed in their use.
- All accidents & Near misses must be reported directly to the Capital Piling's Safety Dept. and the Main contractor's site manager

First Aid

First Aider: To be identified on site

First Aid Box Location: To be identified on site

Nearest Hospital:

Broomfield Hospital

Court Road

Broomfield

Chelmsford

CM1 7ET

01245 362000



GENERAL SITE RULES

Company Capital Piling Ltd

Site Safety Advisor:

Jamie Atkins

Item No.	Rule Description
1	Site personnel must use correctly any personal protective equipment that is issued to them.
2	The site is a designated hard hat area. Safety helmets must be worn by everyone in all areas unless a specific exemption has been made in writing by the contract management.
3	Operatives must wear suitable footwear at all times.
4	Eye, ear, hand protection etc. must be worn for all cutting, grinding and drilling operations. Face masks will be worn if directed by the Site Safety Supervisor.
5	Appropriate PPE is to be worn as directed by the Site Safety Supervisor for the handling and use of hazardous substances, chemicals, liquids and gases.
6	Ear protection must be worn when operating mechanically or electrically powered plant or when working in the close vicinity of noisy operations or where the noise level exceeds 80 db(A)
7	Personnel must know and understand all written emergency procedures and know the location of any muster points and first aid posts. These are defined in the site specific information procedures and sign posted as appropriate.
8	All injuries, however minor, must be reported to the Site Safety Supervisor and entered into the site accident book at the earliest opportunity.
9	Employees must know the location of the Company COSHH chart of generally assessed substances and follow the guidance given before using any substances on site. If the substance is to be used in large quantities for prolonged periods of time or used in a restricted or confined space then a specific written assessment must be carried out by the Site Safety Supervisor prior to use. A specific assessment and procedure must be followed for dealing with live sewage.
10	No work activity is to take place within a confined space without a detailed Risk Assessment being carried out by the Site Safety Supervisor who will instruct the work activities accordingly.



11	The consumption of alcohol or illegal drugs on site is forbidden. Any person suspected of being under the influence of alcohol or drugs will be removed from site.
12	Site personnel have the responsibility to ensure their own safety and that of other persons on site including visitors and the general public.

Sheet 1 of 18

SITE SAFETY & ENVIRONMENTAL CHECKLIST				
Site Checklist to be verified and if necessary amended by Capital Piling Site Supervisor				
RIGHT FROM THE START - IS IT RIGHT				
KEY: AR Action Required ND No Defect NA Not Applicable				
1	SAFE PLACES OF WORK	AR	ND	NA
a	Is there safe access for all on site to reach their place of work? I.e. good roads, gangways, passageways, hoists staircases ladders and scaffolds.		✓	
b	Are all walkways level and free from obstruction?		✓	
c	Is edge protection provided or other preventative measures taken to prevent falling from an open edge?		✓	
d	Are all holes and/or openings securely covered over or fenced off?		✓	
e	Is adequate artificial lighting available when work has to continue after dark?		✓	
f	Is the site tidy and materials stored in safe positions?		✓	
g	Are there proper arrangements for the gathering and disposal of scrap materials?		✓	
h	Are nails in timber hammered down or removed?		✓	
i	Is the work area adequately lit? Is sufficient additional lighting available for task lighting inside buildings etc?		✓	
2	EXCAVATIONS	AR	ND	NA
a	Is an adequate support system available before excavation work begins?		✓	
b	Is the trench support system strong enough to support the sides of the excavation?		✓	
c	Is the method for placing the support system a safe one?		✓	
d	Is the angle of batter appropriate?		✓	
e	Is there safe access to the excavation?		✓	
f	Is there a barrier to prevent people falling into the excavation?		✓	
g	Is the stability of the excavation being affected by vehicles passing close to the opening?		✓	
h	If vehicles tip into the open excavation, are properly secured stop blocks provided?		✓	
j	Is the exaction inspected at the start of every shift and after any accidental collapse or event likely to have affected the side stability?		✓	
k	Is a competent person carrying out inspections and are records being maintained on a daily basis?		✓	
3	LADDERS	AR	ND	NA
a	Are ladders are the right means of access for the task?			✓



b	Is every ladder in good condition and free from obvious defects?			✓
c	Are all ladders secured properly (including those used for short periods)?			✓
d	Does the ladder rise at least 1.0m (4 rungs) above the landing? If not are there adequate hand holds at the place of landing?			✓
e	Is a competent person carrying out inspections and are records being maintained?			✓
4	LIFTING GEAR			
a	Is all lifting equipment uniquely marked with separate records kept on site?			✓
b	Is it of adequate capacity and marked (Ser. Nos., SWL, colour coded)?			✓
c	Is it examined every 6 months by a competent person and are records of all examinations available?			✓

SITE SAFETY & ENVIRONMENTAL CHECKLIST				
RIGHT FROM THE START – IS IT SAFE				
5	TUBULAR SCAFFOLDS	AR	ND	NA
a	Has a handover certificate been provided?			✓
b	Has proper access been provided to the scaffold platform?			✓
c	Are all of the uprights with base plates or properly supported into prevent slipping or sinking?			
d	Have any uprights, ledgers, braces or struts been removed?			✓
e	Have any of the ties to the structure been removed since the scaffold was erected?			✓
f	Are there sufficient boards at all of the working platform levels in use?			✓
g	Are all of the boards free from obvious defects?			✓
h	Are the scaffold boards adequately supported (1.2m) and are they arranged so as to avoid trap ends?			✓
g	Are there any warning notices to prohibit the use of any scaffold that is incomplete? (E.g. not fully boarded etc).			✓
j	At every side where a person 'could fall a distance liable to cause personal injury' are the platform, gangways and runs provided with guard-rails and toe boards.			✓
k	Is a competent person carrying out inspections and are all of the records being maintained?			✓
6	HOISTS			
a	Is a competent person responsible for weekly and six-monthly inspections? Are they being recorded in the appropriate register?			✓
b	Is there an adequate enclosure?			✓
c	Are gates provided at every landing?			✓
d	Are the gates kept shut except when the platform is at the landing?			✓
e	Are the controls so arranged that the hoist can only be operated from one position only?			✓
f	Is there a proper signalling system?			✓
g	If the hoist is for materials only are people prevented from using it? Is there a safety notice? Is it obeyed?			✓
h	Has the hoist been tested by a competent person and is there a record of the six-monthly thorough examination on site?			✓
j	Are all of the correct notices displayed?			✓

7	ROOFWORK			
a	Are crawl boards/ladders necessary and are they being used?			✓
b	Is there proper edge protection for materials and people?			✓
c	Are there warning notices for fragile materials?			✓
d	Are rooflights adequately protected?			✓
e	Are there adequate precautions to prevent falling from the edge of a sheet during sheeting operations?			✓
f	Are people working below protected from falling debris?			✓

SITE SAFETY & ENVIRONMENTAL CHECKLIST

RIGHT FROM THE START – IS IT SAFE

8	MOBILE PLANT	AR	ND	NA
a	Is it suitable for the job?		✓	
b	Is the operative competent and certificated?		✓	
c	Is all of the mobile plant regularly inspected and maintained by a competent person?		✓	
d	Are the weekly inspection registers for excavators and lifting appliances up to date?		✓	
e	Plant turned off and locked when not in use?		✓	
f	Plant positioned away from boundaries where appropriate?		✓	
g	Noise emission levels within site limits?		✓	
9	STATIC PLANT			
a	Is it suitable for the job?		✓	
b	Are there any dangerous parts?		✓	
c	Are they guarded adequately and are the guards secured and in good repair?		✓	
d	Is the exhaust in good condition and adequately muffled with emission/fumes at an acceptable level?		✓	
e	Noise emission levels with site limits?		✓	
f	Is there any damage that needs attention?		✓	
g	Are all operatives trained/competent in the use and operation of the plant?		✓	
h	Is all of the necessary safety equipment provided?		✓	
j	Is it being used correctly?		✓	
l	Is the plant turned off and secured when not in use?		✓	
m	Plant positioned away from boundaries where appropriate?		✓	
10	ELECTRICITY			
a	Is there any sign of damage to apparatus, especially portable apparatus?		✓	



b	Is there any sign of damage to outer coverings of wires and cables?		✓	
c	Are all connections to power points by proper plugs/connectors etc?		✓	
d	Are there any signs of interference with equipment damaged or otherwise?		✓	
e	Are there overhead lines within the confines of the site?		✓	
f	Has the power supply been cut to the overhead lines?		✓	
g	If lines are live, have other precautions been taken to avoid contact?		✓	
h	Have all precautions been agreed with the power supply company responsible for the power lines?		✓	
j	If there is an electric underground cable near the work being carried out, is the location of the line known, marked and precautions taken to avoid contact and/or damage?		✓	
11	HEALTH RISKS			
a	Have harmful materials been identified and COSHH assessments made?		✓	
b	Are the precautions being followed?		✓	
c	Is the necessary safety equipment provided and capable of being properly used?		✓	
d	Are other unprotected workers kept out of the danger area?		✓	
e	In confined spaces has the atmosphere been tested and an air supply provided where necessary?		✓	
f	Has noise been planned to minimise exposure to noise?		✓	
g	Is adequate hearing protection PPE available		✓	

SITE SAFETY & ENVIRONMENTAL CHECKLIST				
RIGHT FROM THE START – IS IT SAFE				
12	FALSEWORK/FORMWORK	AR	ND	NA
a	Is there a method statement and/or design details available?			✓
b	Is there a need for a formwork co-ordinator and has an appointment been made?			✓
c	Has an erection and dismantling sequence checklist been prepared and issued?			✓
d	Have people and materials been prevented from falling from height?			✓
e	Is it inspected regularly and are the inspections being recorded?			✓
13	RISKS TO THE PUBLIC			
a	Have all risks to members of the public off site been assessed? E.g. falling materials, site plant and traffic (access & egress)?		✓	
b	Is the site perimeter fence adequate to keep the public off site?		✓	
c	Is the site secure during non-working hours and periods?		✓	
d	Are all Statutory warning signs clearly displayed and adequately secured to prevent removal?		✓	
e	Are specific hazards on site made safe during non-working hours and periods? E.g. excavations, material stacks, plant etc?		✓	
14	CARTRIDGE TOOLS/ABRASIVE WHEELS			
a	Have operatives been properly trained?		✓	
b	Do operators wear appropriate PPE?		✓	

15	WELFARE			
a	Have suitable toilets been provided?		✓	
b	Are there sufficient wash basins, to allow arm submersion under the taps, with hot/warm water, soap and towels?		✓	
c	Is there a room or area where clothes can be dried?		✓	
d	Is there a room where workers can take shelter and have meals with the facilities for boiling water?		✓	
e	Is there a provision to keep the welfare facilities clean and tidy?		✓	
f	Are there suitable first aid arrangements on site?		✓	
g	Is there a supply of drinking water provided?		✓	
h	Is there a supply of cups provided for drinking water?		✓	
16	FIRE & EMERGENCIES			
a	Does the site have the right number and type of fire extinguishers?		✓	
b	Are there adequate escape routes and are they clearly marked and kept clear?		✓	
c	Do workers know what to do in an emergency?		✓	
d	Is there any way of raising an alarm – does it work?		✓	
17	COMPRESSED GASES			
a	Are cylinders properly stored?			✓
b	Are cylinder valves properly closed when not in use?			✓
c	Are cylinders are in use sited outside and clear of huts and offices?			✓

<u>SITE SAFETY & ENVIRONMENTAL CHECKLIST</u>				
RIGHT FROM THE START – IS IT SAFE				
18	OIL STORAGE	AR	ND	NA
a	Are storage tanks protected from impact damage?			✓
b	Are the tanks provided with a bund?			✓
c	Are protective gloves provided and used?			✓
d	Is there a suitable fire extinguisher available near the tank?			✓
e	Is the containment tank free from corrosion?			✓
f	Are the fuel supply hoses and connections in good condition?			✓
g	Is the fuel bund of sufficient capacity in the event of a leak?			✓
h	Are fuel tanks and bowsers locked when not in use?			✓
j	Are storage tanks stored away from water courses and drainage systems?			✓
k	Are emergency spill kits available?			✓
19	TRAFFIC ROUTES & VEHICLES			
a	Have separate pedestrian routes around the site been provided?		✓	
b	Has a one-way system or turning points around the site been provided?		✓	
c	Where vehicles have to reverse, are they controlled by a banksman?		✓	
d	Are passengers prevented from riding in dangerous positions?		✓	

20	MOBILE ELEVATED WORKING PLATFORMS (MEWPs)			
a	Does the working platform have adequate barriers to prevent people and/or materials from falling off?			✓
b	Have precautions been taken to prevent people from being struck by the moving platform? E.g. barrier or fence around the base.			✓
c	Are the operators trained and competent?			✓
d	Do operators wear a harness and safety line in the elevated platform?			✓
e	Is the power supply isolated and the equipment secured at the end of the working day?			✓
21	MANUAL HANDLING			
a	Have the risk of manual handling been addressed?		✓	
b	Are hoists, fork lift trucks, wheel barrows etc being used to ensure that manual lifting and handling of heavy objects are kept to a minimum?		✓	
c	Are materials such as cement, ordered in 25kg bags?		✓	
d	Can the handling of heavy blocks be avoided?		✓	
22	PROTECTIVE CLOTHING		✓	
a	Has adequate PPE been provided? e.g. hard hats, footwear, gloves, goggles masks etc.		✓	
b	Is the equipment in good order and worn by all operatives who need it?		✓	

<u>SITE SAFETY & ENVIRONMENTAL CHECKLIST</u>				
RIGHT FROM THE START – IS IT SAFE				
23	RESPIRATORY PROTECTIVE EQUIPMENT (Other than disposable respirators)	AR	ND	NA
a	Is the RPE suitable for the task?			✓
b	Have operatives been trained in the use of the RPE?			✓
c	Are daily checks by the user undertaken?			✓
d	Is the RPE cleaned regularly?			✓
e	Are monthly examinations of BA/Self Escape sets being carried out and recorded on the proper forms?			✓
f	Are canisters/filters of half mask respirators in good condition and regularly changed to suit the environmental conditions?			✓
g	Is the type of respirator documented in the in the relevant Work Method Statement?			✓
24	DUST			
a	Adequate suppression?		✓	
b	Lorries sheeted when leaving site?			✓
25	WASTE			



a	Is the waste correctly separated and stored?			✓
b	Are containers for waste are not overfilled & emptied regularly?			✓
c	Is the litter collected off site regularly?			✓
26	WATER POLLUTION			
a	No discharge into water course without prior written approval		✓	
b	No visual pollution in watercourses. e.g. silt, oil, litter etc.		✓	
c	Protection of watercourses against spillage and silting.		✓	
d	Static plant provided with drip trays?		✓	
e	Is plant positioned away from watercourses and drainage systems?		✓	
f	Are fuel drums stored in bunded areas?		✓	
27	PLANNING			
a	Are environmental issues highlighted in the Work Method Statement?		✓	
28	FLORA & FAUNA			
a	Is protection to existing planted areas in position?			✓
29	CULTURAL HERITAGE			
a	Watching brief / certificates in place prior to work commencing			✓
30	AUTHORITY LICENSE			
a	Have correct licenses/applications/road closures been applied for and on record?		✓	



RISK ASSESSMENT

<u>RISK ASSESSMENT</u>															
Activity/Work type		BURIED SERVICES				Date of Assessment		18 September 2018	Date of re-assessment		..... / ..... / ..... Or after an incident				
Identify hazards that are applicable to this activity/work type															
Physical hazards identified						Health hazards identified									
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other	8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity										
Risk rating															
Likelihood of Occurrence: Certain = 3 Reasonably likely = 2 Unlikely = 1				Severity of harm: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Risk rating: 7 – 9 High. Action required 4 – 6 Medium. Consider further action 1 – 3 Low. No action required							
Hazard Number	Who is at Risk	Likely-hood	Sever-ity	Risk	Controls required	Likelihood	Sever-ity	Risk							
		Pre-controls				Post Control									
15	Employees & Other Site Operatives	3	3	9	CAT scan to be carried out to identify any buried services before any site activities are to be undertaken. All services found to be marked on site.	1	3	3							



					Consult site hazard directory (if exists) and site services information drawings. Look for cables lying on the surface of the ground that may be hidden in the undergrowth.			
1	Employees & Other Site Operatives	3	3	9	Permit to Dig system to be in operation. Service drawings to be viewed Operatives to be aware of nearest emergency facility and procedures.	1	3	3

RISK ASSESSMENT							
Activity/Work type	MANUAL HANDLING			Date of Assessment	18 September 2018	Date of re-assessment	..... / ..... / ..... Or after an incident
Identify hazards that are applicable to this activity/work type							
Physical hazards identified				Health hazards identified			
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold
2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow
4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet
6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other
8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity		
Risk rating							



Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1		Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1		Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required		
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk
		Pre-controls				Post Control		
21	Employees	3	2	6	Reduce the requirement for manual handling by using mechanical means wherever possible. Operatives not to lift loads greater than 25kg or loads that are unmanageable. Use correct lifting techniques. i.e. bend knees, keep back straight Use levers and rollers to assist moving large/heavy loads. When using greater manpower, one person only to control the lift Loads to be placed close to point of work to reduce distances load to be carried. Minimise the weight of the materials, e.g. lightweight blocks rather than dense, small elements etc. Use PPE.	1	2	2
9	Employees	3	2	6	Clear lifting area of debris / trip hazards Use mechanical plant to move the load	1	2	2



RISK ASSESSMENT															
Activity/Work type		NOISE FROM PLANT/OPERATIONS			Date of Assessment		18 September 2018		Date of re-assessment		...../...../..... Or after an incident				
Identify hazards that are applicable to this activity/work type															
Physical hazards identified						Health hazards identified									
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other	7	Ground obstruction	16	Crushing	25	Disease	34	Other
8	Fire/explosion	17	Flying particles	26	Gassing			8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity			9	Slip/trip	18	Other	27	Heat/humidity		
Risk rating															
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1				Risk rating: 7 – 9 High. Action required 4 – 6 Medium. Consider further action 1 – 3 Low. No action required							
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk							
		Pre-controls				Post Control									
20	Employees, Other Site Workers & Public	3	2	6	Noisy operations will be planned to take place away away from the general workforce. At 7r protection db(A) operatives will be advised that hearing protection should be worn.	1	2	2							



					Ear protection must be worn where noise exceeds 85db(A). Plant and equipment will be selected that has the lowest possible noise levels wherever possible. Plant to be regularly maintained. Operative exposure time to be controlled. Orientate the plant to direct noise away from the work area.			



RISK ASSESSMENT

RISK ASSESSMENT																																																																			
Activity/Work type		OVERHEAD SERVICES				Date of Assessment		18 September 2018	Date of re-assessment		...../...../..... Or after an incident																																																							
Identify hazards that are applicable to this activity/work type																																																																			
Physical hazards identified						Health hazards identified																																																													
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation	3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare	5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air	7	Ground obstruction	16	Crushing	25	Disease	34	Other	8	Fire/explosion	17	Flying particles	26	Gassing	9	Slip/trip	18	Other	27	Heat/humidity
Risk rating																																																																			
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1				Risk rating: 7 – 9 High. Action required 4 – 6 Medium. Consider further action 1 – 3 Low. No action required																																																											
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk																																																											
		Pre-controls				Post Control																																																													
1	Employees	3	3	9	Operatives to be aware of emergency service locations and procedures. Limit height of poles etc. Work to be avoided away from the overhead lines where possible	1	3	3																																																											



14	Employees & Other Site Workers	3	3	9	Signs and goal posts to be erected where required. Isolate power supply PICOM to brief piling rig drivers on location of overhead services. All piling rig movements to take place under control of PICOM with mast lowered.	1	3	3

<u>RISK ASSESSMENT</u>							
Activity/Work type	WORKING CLOSE TO THE PUBLIC			Date of Assessment	18 September 2018	Date of re-assessment	...../...../..... Or after an incident
Identify hazards that are applicable to this activity/work type							
Physical hazards identified				Health hazards identified			
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold
2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow
4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet
6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other
8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity		
Risk rating							



Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1		Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1			Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required	
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk
		Pre-controls				Post Control		
4	General Public	3	3	9	All vehicles to be controlled by a banksman when moving and/or reversing on site or off the site.	1	3	3
3	General Public	3	3	9	Erect fans or fully enclosed walkways to protect dropped items	1	3	3
6 & 9	General Public	3	2	6	Cordon off the working area with Chapter 8 barriers suitably positioned by a competent person. Provide firm base or close boarded and panelled deck walkway for pedestrians	1	2	2
12	General Public	2	2	4	All protrusions to be taped or positioned behind hoarding	1	2	2
13	General Public	2	3	6	Cordon off working areas with barriers suitably positioned by a competent person. Signage to be positioned to guide the public/traffic through the safest route. All site works to be secured at the end of each shift.	1	3	3



RISK ASSESSMENT

RISK ASSESSMENT															
Activity/Work type		WORKING WITH PLANT				Date of Assessment		18 September 2018	Date of re-assessment		...../...../..... Or after an incident				
Identify hazards that are applicable to this activity/work type															
Physical hazards identified						Health hazards identified									
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other	8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity										
Risk rating															
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1				Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required					
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk							
		Pre-controls				Post Control									
4	Employees & Other Site Workers	3	3	9	All reversing vehicles to be banked by a competent person	1	3	3							
11	Employees & Other Site Workers	3	3	9	All plant to have adequate visual aids (& sensors). Any plant with moving parts to be properly guarded	1	3	3							



16	Employees & Other Site Workers	3	3	9	All plant operators to be certificated operators All plant to be supplied with current certificates of test and examination. All mobile plant to be accompanied by a competent banksman.	1	3	3
18	Employees	3	2	6	All tools with abrasive wheels to be changed by qualified operatives only	1	2	2



RISK ASSESSMENT											
Activity/Work type		NIGHT TIME WORKING			Date of Assessment		18 September 2018		Date of re-assessment		
									...../...../..... Or after an incident		
Identify hazards that are applicable to this activity/work type											
Physical hazards identified					Health hazards identified						
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	29	Radiation	30	Ice/snow
2	Burial	11	Rotating machinery	20	Noise	31	Glare	32	Wet	33	Lack of air
3	Falling objects	12	Sharp objects	21	Poor posture	32	Wet	33	Lack of air	34	Other
4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	23	Manual handling	24	Vibration	25	Disease
5	Deep water	14	Overhead lines	25	Disease	26	Gassing	27	Heat/humidity		
6	Poor access	15	Hidden pipes/cables								
7	Ground obstruction	16	Crushing								
8	Fire/explosion	17	Flying particles								
9	Slip/trip	18	Other								
Risk rating											
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1			Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required		
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk			
		Pre-controls				Post Control					
4	Employees, Other Site Workers & General Public	3	2	6	All vehicle movement to be controlled by banksman. Vehicles to exhibit lights during hours of twilight and darkness. Barriers, warning lights and signs to be erected where appropriate.	1	2	2			
9	Employees & Other Site Workers	2	2	4	Adequate task and safety lighting to be provided to all work areas and access routes. All hazards to be removed from the area. Cordon off the working area	1	2	2			



					and/or access walkways with Chapter 8 barriers where appropriate, positioned by a competent person.			
34	Employees, Other Site Workers & General Public	3	2	6	REDUCED VISIBILITY All personnel to wear High Visibility safety waistcoat or jacket at all times. Adequate lighting to be provided.	1	2	2
34	Employees	3	2	6	TIREDNESS/FATIGUE Supervisor responsible for the work to check all personnel for tiredness prior to starting work and to monitor all operatives during working operations.	1	2	2

RISK ASSESSMENT							
Activity/Work type	VIBRATION WHITE FINGER			Date of Assessment	18 September 2018	Date of re-assessment	...../...../..... Or after an incident
Identify hazards that are applicable to this activity/work type							
Physical hazards identified				Health hazards identified			
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold
2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow
4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet
6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other
8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity		
Risk rating							



Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/Ill health = 2 First aid only = 1			Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1			Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required	
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk	
		Pre-controls				Post Control			
24	Employees	2	2	4	Use low vibration hand tools wherever possible. Reduce the time spent using vibrating equipment. Take regular breaks, rotate operatives using the vibrating equipment. Carry out routine maintenance to ensure tools operate efficiently. Maintain a warm body temperature to ensure good blood circulation to hands. Wear good quality gloves to keep hands warm and to help absorb vibration.	1	2	2	

<u>RISK ASSESSMENT</u>					
Activity/Work type	REMOVAL OF VEGETATION	Date of Assessment	18 September 2018	Date of re-assessment	...../...../..... Or after an incident
Identify hazards that are applicable to this activity/work type					
Physical hazards identified			Health hazards identified		



1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold
2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow
4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet
6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other
8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity		

Risk rating			
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1		Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1	
Risk rating: 7 – 9 High.		Action required	
4 – 6 Medium.		Consider further action	
1 – 3 Low.		No action required	

Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk
		Pre-controls				Post Control		
3	Employees	2	2	4	All operatives to wear appropriate PPE at all times. Operatives to stand clear of all tree felling operations.	1	2	2
12	Employees	2	2	4	Operatives using chainsaws, bush cutters, hedge trimmers etc to wear adequate PPE. i.e. Chain saw trousers, face visors etc.	1	2	2
17	Employees & Other Site Operatives	2	2	4	All unnecessary personnel to be kept out of the area by warning signs and barriers where appropriate. Operatives to wear suitable standard protection eye wear at all times when in the vicinity of working equipment.	1	2	2
20	Employees	2	2	4	Operatives to wear ear protection where necessary (refer to NOISE RA).	1	2	2



RISK ASSESSMENT															
Activity/Work type		CHEMICAL USE			Date of Assessment		18 September 2018		Date of re-assessment						
									...../...../..... Or after an incident						
Identify hazards that are applicable to this activity/work type															
Physical hazards identified					Health hazards identified										
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation
3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare
5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air
7	Ground obstruction	16	Crushing	25	Disease	34	Other	8	Fire/explosion	17	Flying particles	26	Gassing		
9	Slip/trip	18	Other	27	Heat/humidity										
Risk rating															
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1				Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.		Action required Consider further action No action required					
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk							
		Pre-controls				Post Control									
34	Employees	3	2	6	Prepare full COSHH assessment base on Data Sheets from manufacturer. Wear PPE as directed by COSHH assessment. Wash hands after use and before eating and/or smoking.	1	2	2							



CAPITAL PILING

					Do not use in windy conditions Do not use in confined spaces. Store in correct marked containers. Do not allow to spill FOLLOW DIRECTIONS AS STATED IN THE COSHH ASSESSMENT.			



CAPITAL PILING

RISK ASSESSMENT

CAPITAL PILING RISK ASSESSMENT																																																																			
Activity/Work type		EXCAVATIONS				Date of Assessment		18 September 2018		Date of re-assessment		..... / ..... / ..... Or after an incident																																																						
Identify hazards that are applicable to this activity/work type																																																																			
Physical hazards identified							Health hazards identified																																																												
1	Electric shock/burns	10	Falling persons	19	Asbestos	28	Cold	2	Burial	11	Rotating machinery	20	Noise	29	Radiation	3	Falling objects	12	Sharp objects	21	Poor posture	30	Ice/snow	4	Moving vehicles	13	Pits/shafts	22	Dust/fumes	31	Glare	5	Deep water	14	Overhead lines	23	Manual handling	32	Wet	6	Poor access	15	Hidden pipes/cables	24	Vibration	33	Lack of air	7	Ground obstruction	16	Crushing	25	Disease	34	Other	8	Fire/explosion	17	Flying particles	26	Gassing	9	Slip/trip	18	Other	27	Heat/humidity
Risk rating																																																																			
Likelihood of Occurrence: Fatal/Major injury = 3 Lost time/ill health = 2 First aid only = 1				Severity of harm: Certain = 3 Reasonably likely = 2 Unlikely = 1				Risk rating: 7 – 9 High. 4 – 6 Medium. 1 – 3 Low.				Action required Consider further action No action required																																																							
Hazard Number	Who is at Risk	Likelihood	Severity	Risk	Controls required	Likelihood	Severity	Risk																																																											
		Pre-controls				Post Control																																																													
2	Employees & Other Site Operatives	3	3	9	Excavations to be inspected prior to every work shift. Adequate support system in use and/or available prior to the excavation work commencing	1	3	3																																																											



3	Employees & Other Site operatives	2	3	6	No materials to be stored close to the excavation. PPE to be worn at all times	1	3	3
10	Employees & Other Site Operatives	3	3	9	Excavation to be covered and the cover secured when the excavation is to be left overnight. Temporary fencing to be erected and maintained around the exaction at all times. Warning notices to be posted.	1	3	3