














Risk assessment for : Coulsdon Home Hardware Ltd

Risk assessment name	Excavation of Footings & concreting	Assessment type	 General
Assessor name	Simon Harris	Affected site(s)	Signature Homes Ltd (CR5 2RA)
Assessment date	20/02/2020	Review period	Annually
Approved by	Simon Harris	Review date	20/02/2021
Approved date	20/02/2020	Reference	EXCAV - 001









Workspace(s)	Description
 Access / Egress  Outside Area	This Risk Assessment is to assess the risks for excavation of footing, trenches, drainage and concreting

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)








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 <p>Abrasive Chop Saw Eye Injury, Respiratory disease, silicosis etc</p>	<p>Operators</p>	 Areas are designated as mandatory hearing protection always wear hearing protection  Inspect machine prior to use, switch, guard operation, blade condition. If faults are found withdraw from service until repaired, or replaced  When operating externally, ensure dust suppression methods are used. Ensure guards are in place to minimise debris escape. Position screen guard to protect others in the area.	 Ensure machine guard is in full working order  Operative must be trained and deemed competent to use this equipment. Under 18s must be supervised at all times.	<p>1 x 5</p> <p>5</p> <p>Low</p>
 <p>Hidden Live Services Death, Major Injury, Explosion</p>	<p>Members of the public, Operators</p>	 Staff trained in the use of cable and service location equipment (CAT Devices) cable avoidance tools and safe digging practice to avoid danger.  Work to be carried out by a competent person	 Use up-to-date service plans Service plans should be available from regional Facilities companies, local authorities, highways authorities, etc.	<p>1 x 4</p> <p>4</p> <p>Low</p>









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Confined Space Working Failure to risk assess the specific confined space and not ensuring a rescue procedure is in place.</p>	<p>Contractors, Operators</p> <p>How? Suffocation, Death.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>1. Dusty boards to be wetted down before handling to prevent dust contamination.</p> </div> <div style="width: 50%;">  <p>Confined space entry is the last option</p> </div> <div style="width: 50%;">  <p>Confined work permit A Confined Work Permit required to be completed prior to entry</p> </div> <div style="width: 50%;">  <p>Emergency procedures must be in place prior to work starting.</p> </div> <div style="width: 50%;">  <p>Machine not used in confined areas The running of any fuelled powered equipment in restricted in a confined areas.</p> </div> <div style="width: 50%;">  <p>Trench work may develop a confined space dependent on depth. Checks of atmosphere using oxygen monitor to be carried out during works deeper than 1 metre.</p> </div> </div>	<p>2 x 5</p>  <p style="font-size: 24pt; color: orange;">10</p> <p>Medium</p>














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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Contact with Wet Concrete Severe Chemical burns, dermatitis</p>	Operators	<p> 1. Dusty boards to be wetted down before handling to prevent dust contamination.</p> <p> COSHH assessments communicated COSHH assessments have been communicated to relevant employees</p> <p> Regular monitoring to spot early signs of contact dermatitis will be carried out and the results recorded.</p> <p> COSHH Assessment All personnel are familiar with the hazards of burns when working with wet concrete. All are aware of the COSHH Assessment and controls to prevent harm</p> <p> Personnel will wear PPE as specified in risk assessment in order to prevent contact with skin and eyes</p>	<p>1 x 4</p> <p> 4</p> <p>Low</p>

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 <p>Driving Company and personal vehicles for work</p>	<p>Members of the public, Operators</p> <p>How? Road traffic accidents, injury, injury to others</p>	<p> Check weather forecast before driving</p> <p> Dynamic driving risk assessment Dynamic risk assessment is carried out (consider: traffic conditions, weather, lighting, road surface and camber if jacking the vehicle)</p> <p> Staff will adhere to speed limits at all times</p>	<p> Daily Checks Drivers will carry out vehicle checks prior to starting work including tyres pressures and damage, oil and water levels, headlights side lights and indicators, windscreen washers etc</p> <p> Mobile phones are not used whilst driving Drivers are not expected to take calls whilst driving - unless using suitable hands free equipment</p> <p> The Company will hold a copy of each drivers license on file renewed annually</p>	<p>2 x 6</p> <p> 12</p> <p>Medium</p>









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 <p>Dumper Truck Roll, crush</p>	Operators	<p> All operatives follow the safe system of work</p> <p> Care to be taken when traversing unmade ground</p> <p> Operator must be trained and hold relevant plant operator certification.</p> <p> Anti-roll bar must be in position and undamaged. Seat belt to be worn at all times</p> <p> Machine will be immobilised when not in use and ignition key removed when left unattended</p>	<p>2 x 6</p> <p> 12</p> <p>Medium</p>
 <p>Excavations Suffocation, Falls into excavation and collapse.</p>	<p>Members of the public, Operators</p> <p>How? Crushing, Broken limbs, Death</p>	<p> A competent person must decide if the excavation presents the possibility of a hazardous atmosphere.</p> <p>Where there is the possibility of a hazardous atmosphere in an excavation extra precautions must be used.</p> <p> Barricade all light excavations and provide a safe, alternative route for vehicles and personnel</p> <p> All underground utilities must be properly identified before any excavation work can begin.</p> <p>These may include: water, steam, sewer, drain, electricity, gas, communication, oil or gasoline etc.</p> <p> Shuttering must be constructed by trained, experienced personnel in compliance with a suitably approved design</p>	<p>1 x 5</p> <p> 5</p> <p>Low</p>











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Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Excavator 360 By impact or collision, unexpected movement .Falls into excavation and collapse.</p>	<p>Members of the public, Operators</p> <p>How? Death, Serious injury,</p>	<p> Banks Man A banksman may be required to ensure safe working in the excavation area if other trades are working in close proximity</p> <p> Machine will be immobilised when not in use and ignition key will be removed when left unattended</p>	<p> Driver to check around the vehicle before any rotary movement.</p> <p> Operator is fully trained and holds relevant plant operator certification</p>	<p>2 x 6</p> <p> 12</p> <p>Medium</p>
 <p>Fire on Site: Respiratory damage may be caused through toxic smoke</p>	<p>All staff, Members of the public, Operators</p> <p>How? Accidental fires may cause Burns, Asphyxiation, Blast injuries,</p>	<p> All persons aware of fire procedures</p> <p> Fire exits unobstructed</p>	<p> Employees are given fire training on induction and regular fire drills</p> <p> Robust Induction During induction Main contractor should make all staff aware of site specific fire procedures</p>	<p>2 x 7</p> <p> 14</p> <p>Medium</p>






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 <p>Flooding Death, injury, drowning</p>	<p>All staff, Members of the public, Operators</p> <p>How? Death, injury, drowning</p>	<p> All operatives follow the safe system of work</p> <p> Employees are instructed to maintain a safe and tidy working environment</p> <p> Risk assessments and safe methods of work in place All work at height activities to be risk assessed prior to completion and where a significant risk, a safe working procedure to be formally recorded</p>	<p> Cross flooded roads with care</p> <p> No unsafe work undertaken Lone workers are aware not to carry out any work that is considered unsafe</p> <p> Use pumps to evacuate excess liquids where needed</p>	<p>1 x 5</p> <p> 5</p> <p>Low</p>












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 <p>Hand Tools Improper use of hand tools and use of defective hand tools are common causes of minor injuries. Serious injuries may be caused particularly through failure of the tool e.g. mushrooming of chisel heads</p>	<p>Operators</p> <p>How? Hand Tools (Use): Bruising, Cuts, Eye damage, Potential burns, sparks, debris, electrical fault etc</p>	<p> Clean tools after use</p> <p> Hand Tools All hand tools should be in good condition and must be inspected prior to use.</p> <p> Procedure for carrying tools in place Light tools are carried in a shoulder bag or holster attached to a belt so that both hands are free for climbing</p> <p> Selection and use of low vibration tools</p>	<p> Employees are trained in the use of hand tools Operatives must be deemed competent to use relevant hand tools</p> <p> Keep hand tools safe All hand tools are kept in tool bags/boxes when not in use.</p> <p> Regular checks on tools to ensure in good order and in good repair</p> <p> Tools Checked Before Use Tools Checked Before Use</p>	<p>2 x 5</p> <p> 10</p> <p>Medium</p>









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Inclement Weather Caution - lighting strikes, high winds/heavy rain, snow and ice especially when working at height</p>	<p>Operators</p> <p>How? illness, increased Risk of Slips, trips or falls</p>	<p> Do not start work if weather conditions are severe</p> <p> Weather conditions planned for Weather conditions are considered and planned for. Suitable clothing and equipment is provided (including sun protection)Take account of weather conditions, wear appropriate clothing and take warm drinks in cold weather, cover up or apply sun block to prevent sunburn</p> <p> Work shall be postponed if weather conditions endanger health or safety</p>	<p>2 x 4</p> <p></p> <p>8</p> <p>Low</p>









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 <p>Ladders Incorrect use and storage of ladders.</p>	<p>Operators</p> <p>How? Death, serious injury, minor injury</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p> Defective ladders not used Before use all ladders will be visually inspected for damage, including all rungs, catches and safety devices.</p> <p> If a ladder is being used to access a working platform the ladder shall extend 1.05m above the platform level</p> <p> Ladders are erected at the correct angle of 4:1</p> <p> Ladders are not used in extreme weather conditions</p> <p> Young Workers Inducted All staff are experienced, trained and competent to carry out ladder work. Young/inexperienced staff are trained and closely supervised during ladder work. All minors are exposed to the company safety induction, alongside information on their specific role</p> </div> <div style="width: 50%;"> <p> Employees are trained in the use of ladders</p> <p> Ladder Inspection Undertaken By User</p> <p> Ladders are inspected before use Ensure they are fit to use</p> <p> Ladders to be securely tied off to prevent slippage and movement</p> </div> </div>	<p>2 x 5</p> <p> 10</p> <p>Medium</p>






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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Leptospirosis (Weils Disease): Danger to staff undertaking work that involves: working in contaminated land or water; performing river, stream, canal, lake and pond repairs and maintenance; excavating in the vicinity of ditches or ponds; working within sewers and sewage treatment plants;</p>	<p>All staff, Operators</p> <p>How? Flu like illness, fever, severe headache, pains in the back and calf, Jaundice</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>All staff are trained in good housekeeping techniques</p> </div> <div style="width: 50%;">  <p>Equipment is maintained in a good condition</p> </div> <div style="width: 50%;">  <p>Good Facilities provided Good welfare facilities reduce risk of dermatitis, help good hygiene.</p> </div> <div style="width: 50%;">  <p>Good hand washing procedures observed</p> </div> <div style="width: 50%;">  <p>Good hygiene practices to be utilised at all times</p> </div> <div style="width: 50%;">  <p>Staff will be given information on Leptospirosis and instructed to minimise contact with dirty water</p> </div> </div>	<p>2 x 4</p>  <p>8</p> <p>Low</p>















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 <p>Manual Handling Back, Musculoskeletal Injuries, Spinal Injuries, Sprains and strains twisting, Over-reaching, muscular problems, poor lifting techniques ,heavy load</p>	Operators	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>A Manual Handling Assessment has been carried out</p> </div> <div style="width: 50%;">  <p>Ensure that the route to be taken while lifting is clear of any obstructions To be completed.</p> </div> <div style="width: 50%;">  <p>Individuals have received information, instruction and training in manual handling techniques</p> </div> <div style="width: 50%;">  <p>Mechanical aids will be provided wherever possible to reduce manual handling Injuries</p> </div> <div style="width: 50%;">  <p>Specific Manual Handling assessment To be completed.</p> </div> <div style="width: 50%;">  <p>Staff will not lift beyond their capabilities</p> </div> <div style="width: 50%;">  <p>Team Work System Operated Operators will seek help for any load they consider too heavy or hazardous to lift</p> </div> </div>	<p>1 x 4</p> <p style="color: green; font-size: 2em;">4</p> <p>Low</p>













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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Noise Danger of exposure to excessive levels of noise.</p>	Operators	<p> Ear protection provided. Always use hearing protection when using power tools All staff must wear the appropriate ear defenders in noisy areas. Hearing protection available and to be worn whilst carrying out noisy work activities</p> <p> Noise control procedures in place Correct equipment maintenance in place to ensure noise level as per manufacturers type approval limits (exhaust baffles, etc. fitted and checked before use) PPE (ear protection) to be worn. Hazard signage to be displayed in public places Audiometric (hearing tests) testing regularly for all operatives and results monitored</p> <p> Split work over shift between operators to reduce exposure,</p>	<p>2 x 5</p>  <p>10</p> <p>Medium</p>









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 <p>Slips, Trips and Falls Caused by items left on the floor, water, oil and other slippery surface or poor footwear</p>	<p>All staff, Members of the public, Operators, visitors</p> <p>How? Slips Trips and Falls: Bruising, Cuts, Broken Limbs</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> All staff will wear suitable footwear with non slip soles at all times</p> <p> Ensure work area is kept tidy and spillages cleared up</p> <p> The area of work will be kept clean and tidy, cables will be managed so as not to cause a trip hazard</p> </div> <div style="width: 48%;"> <p> Ensure walkways and Emergency Escape routes are kept clear of obstruction at all times</p> <p> Good Housekeeping Observed Good Housekeeping Observed</p> </div> </div>	<p>2 x 5</p> <p> 10</p> <p>Medium</p>
 <p>Vibration Poker Potential HAVS (Hand, Arm, Vibration, Syndrome)</p>	<p>Operators</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p> Anti -Vibration Gloves High quality anti-vibration gloves to be used when handling the poker.</p> <p> Selection and use of low vibration tools</p> <p> Vibration Assessment Undertaken Identify vibration magnitude from manufacturers data and calculate exposure using Hand-Arm Vibration Calculator.</p> </div> <div style="width: 48%;"> <p> Job Rotation Task sharing to be employed to reduce period of exposure.</p> <p> Training about the effects of vibration and how to avoid it is given to all operatives.</p> </div> </div>	<p>2 x 6</p> <p> 12</p> <p>Medium</p>

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 <p>Vibration from cutting / grinding / drilling tools: Hand arm vibration or whole body vibration.</p>	<p>Operators</p> <p>How? Muscular, Circulatory damage, Material damage, Muscular, Circulatory damage.</p>	<p> 1. Safety harnesses and buoyancy aids to be worn.</p> <p> Ensure that all equipment used is of a low vibration specification and is checked before use.</p> <p> Issue anti-vibration gloves prior to start of operation.</p> <p> Job rotation Minimise the time workers are exposed to vibration by job rotation, i.e. workers will be given rest periods or other tasks to perform.</p> <p> Regular breaks taken by employees</p>	<p>1 x 5</p> <p> 5</p> <p>Low</p>
 <p>Welfare Welfare levels may not be adequate on site.</p>	<p>All staff, Operators</p>	<p> Contractors will be allowed access to site facilities providing they are left clean and tidy.</p> <p> Welfare- Toilet and hand washing facilities Toilets and sinks are available - cleaned on regular basis</p> <p> Welfare facilities-Refreshment/ canteen facilities: Mess Room / Kitchen area provided - cleaned on regular basis</p>	<p>2 x 7</p> <p> 14</p> <p>Medium</p>

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 <p>Working on external sites: Death or Serious injury</p>	Operators	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Construction staff will be inducted onto site and follow all principle contractor safety rules </div> <div style="width: 50%;">  Hand tools and power tools will not be left unattended </div> <div style="width: 50%;">  Site safety The supervisor will co-ordinate with Site Manager and co-operate with other subcontractors to ensure safe working at all times </div> <div style="width: 50%;">  The site will be made safe at the end of each shift </div> <div style="width: 50%;">  The supervisor will co-ordinate with Site Manager and co-operate with other subcontractors to ensure safe working at all times </div> <div style="width: 50%;">  Young Workers Inducted Young workers and apprentices will be supervised at all times and have a specified supervisor. All minors are exposed to the company safety induction, alongside information on their specific role </div> </div>	<p>2 x 6</p>  <p>12</p> <p>Medium</p>

Further control measures

None required

Assessor's signature: Simon Harris

Approved by signature: Simon Harris