Orbital Civil Engineering Ltd - SHEQ Document

Site Specific Risk Assessment

Risk Assessment Scope: Site clearance and formation of new Car Rental facility

Scheme name: ERAC Tottenham	**Date of assessment: 07.12.2023**	**Revision: 1**
Prepared by: Mark Chapman	**Reviewed: Scott Dowell**	**Review Date/Status:** LIVE

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1	**Manual handling of materials & equipment -**Muscular-skeletal injuries, impact, injuries to digits, cuts, abrasions, bruising, brakes to bones -**W**	Moderate	Possible	Medium	Mechanical lifting equipment shall be utilised throughout the works i.e. vacuum slab lifter or excavator used in conjunction with a kerb lifter. Reduce loads where possible. A 'team lift' shall be undertaken where mechanical means are not suitable utilising manual handling equipment such as scissor lifters. A further risk assessments shall be undertaken for all repetitive manual tasks. Operatives shall be trained in safe manual handling techniques . Promotion of the LITE Principal. All operatives shall wear mandatory site PPE - see method statement for minimum standards focus - steel toe capped (and midsole) protective boots shall be worn as a minimum; gripper gloves to be worn during manual works.	Moderate	Unlikely	Low	**Operatives/ Supervisor**
2	**Excavation - operating in the vicinity of underground services -**Contact with electricity, burns, explosions, fire, fatal injuries, damage to property -**W, V & OP**	Major	Likely	High	Excavation shall only take place following the completion of an approved 'Permit to Dig'; A visual survey of the site shall be completed, SU`s Plans shall be used in conjunction with cable avoidance tools to undertake a detailed utility map of the site prior to work commencement, all markings shall be recorded on the ground with depth readings where ever possible. Plans shall be printed in colour, within the last three months and include all relevant works areas. A CAT 4+e and Genny shall be used in all modes by a competent operator throughout the works, using the equipment to regularly scan the excavation at 100mm intervals. Trial holes shall be instructed by the supervisor where required. No mechanical excavation shall be undertaken within 300mm of identified services, only insulated hand tools are permitted for use on site, picks or forks are not to be used in the vicinity of identified services. All known services will be tagged.10 steps to safe digging shall be communicated and followed throughout the works. High visibility trousers (worn by all) shall be flame retardant. All CAT`s shall be calibrated in accordance with manufactures guidelines, operatives shall check the equipment is working correctly prior to use.	Major	Unlikely	Medium	**Operatives, Supervisor**
3	**Noise- continuous and/or intermittent during construction work -** NIHL(Noise-induced hearing loss) and Tinnitus - **W, V & OP**	Moderate	Likely	High	Operations shall be undertaken during specified working hours (see MS). Plant/equipment shall be maintained sufficiently in accordance with manufactures guidelines(avoiding unnecessary noise exposure due to wear and tear). Plant/equipment shall be turned off when not in use. Where possible divert the Public away from works areas. Noise Assessment (Acoustic Associates - ref; SEM/J3003/15709) findings shall be complied with throughout the works. Employ 'job rotation' of operatives to reduce exposure. Acoustic barriers shall be utilised in sensitive area and/or working times. Hearing protection (BSEN397 2012 compliant) shall be worn by all operatives operating, or in the vicinity of, noisy operations or equipment. Supervisors shall liaise with local residences & business owners throughout the works to inform them of any forthcoming noisy works but noise is not expected to be an issue.	Moderate	Possible	Medium	**Operatives, Supervisor**
4	**Vibration - exposure throughout construction related activities -** Physiological conditions such as whole body vibration (WBV), hand arm vibration syndrome (HAVS) or carpel tunnel syndrome - **W**	Moderate	Possible	Medium	The maximum exposure time for all hand held power tools is detailed on the HAV`s Output Table and shall be briefed to the relevant personnel before use. Site operatives to be made aware of EAV and ELVs prior to operating. Plant/job rotation shall be used where necessary. Records of daily HAV`s use to be compiled.	Minor	Unlikely	Low	**Operatives, Supervisor**
5	**Plant Machinery - Construction sites -** Crush injuries, breaks, fatality - **W & V**	Major	Possible	Medium	Operative shall be trained and competent to operate the item of plant and follow the directions of a qulaified Banksman. Vehicles/plant shall be segregated from Operatives. Banksman to ensure the driver can see him at all times when vehicle is moving. Reversing aids i.e. cameras, sensors shall be used to assist. The Operator shall maintain communication with the Banksman. Operatives to get a 'thumbs up' up from Plant Operator before passing or approaching machine. All plant must be fitted with orange and green beaconsvisible through 360 degrees. Exclusion zone for plant must be maintained at all times. All vehicles must enter and exit site in a forward motion under the direction of a competent Banksman.	Moderate	Unlikely	Low	**Operatives, Supervisor**
6	**Slips, trips & falls -** Broken bones, cuts, sprains - **W, V & OP**	Major	Possible	Medium	Avoid trips by maintaining a good standard of housekeeping and ensure that materials are stored and access-ways are kept clear, in particular pay attention to loose hoses and trailing leads. Wearing of protective footwear to EN345 standard(S3s) required. Be aware of temporary hazards produced as a result of works, e.g. raised ironwork, isolated pieces of aggregate and exposed kerb upstands. All Raised Ironwork should be ramped with cold lay asphalt and inspected by supervisor prior to reopening footway. Provision of enhance lighting in reduced light conditions. Ensure to clean up any spills imeadiatley and with a spill kit if it is hazardous waste.	Minor	Possible	Low	**Operatives, Supervisor**
7	**Leptospirosis (Wiels Disease) -** Bacterial infection, organ failure - **W**	Moderate	Unlikely	Low	Appropriate PPE to be worn any infestation to be reported. Operatives to maintain good hygiene and using washing hand facilities regularly. No eating on site. Cuts and abrasions to be covered up. Tool box talks to be carried out and recorded, records shall be maintained on site.	Minor	Unlikely	Low	**Operatives, Supervisor**

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8	**Dust & particulate matter -** Lung cancer, Silicosis, Chronic Obstructive Pulmonary Disorder and Asthma - **W, V & OP**	Moderate	Possible	Medium	Dust suppression using water bottles and use of FFP3 dust masks reducing cuts where possible. Due to the distance of approximately 130 metres from the site to the nearest residental dwellings and the substantial vegetation surrounding them, we don't believe any dust created from the works will impact the residents. Only trained and skilled operatives to use abrasive wheels. Tool box talks shall be delivered by the site management.	Minor	Unlikely	Low	**Operatives, Supervisor**
9	**Abrasive wheels -** Cuts, loss of digits/limbs, damage to eyesight - **W, V & OP**	Moderate	Possible	Medium	Abrasive wheels only used by trained and authorised personnel. Sufficient operatives trained to change abrasive wheels and discs will be available on site. The correct wheels for the type of machine, speed and materials to be cut will be ordered and supplied. PPE will be worn as directed including Googles, FFP3 Mask and Hearing Protection. Loose clothing will not be worn by operators. Disc cutters will only be used when standing on a firm, level base. Operators will ensure that all persons are kept away from areas where sparks or dust are directed. Equipment and discs/wheels will be visually checked for damage before use by operators, ensuring operating speed is indicated. Users will not use undue pressure, and will use the right disc/wheel. Suitable storage facilities will be available at the workplace for spare discs and wheels. Equipment and spare wheels are to be checked for visible signs of damage before issue.	Moderate	Unlikely	Low	**Operatives, Supervisor**
10	**Electricity -** Shock, Burns, explosion - **W, V & OP**	Moderate	Possible	Medium	All electrical power tools will be 110v or battery operated and PAT tested at least every 6 months.. All leads/plugs shall be visually inspected prior to use. Equipment shall only be used for the purpose for which it was intended.	Moderate	Unlikely	Low	**Operatives, Supervisor**
11	**Fire -** Burns, explosion, pollution - **W, V, OP**	Major	Possible	Medium	Plant to be serviced and maintained . No naked flames near fuel sources. Flammable liquids to be stored in containers on bunded trays. Refuelling of plant to take place under controlled conditions. . Funnel to be used when refuelling. Smoking is strictly prohibited in any works area, a designated smoking area will be installed by the PC.	Major	Unlikely	Medium	**Operatives, Supervisor**
12	**Asphalt Works (hand lay) -** Slips trips and falls, Burns, Fire - **W, V & OP**	Moderate	Possible	Medium	As a minimum pedestrian barriers are to be used to protect the works area. full site PPE to be worn at all times - No bare skin on the arms and legs. COSHH Assessments must be adhered to at all times. Ensure fire fighting equipment is accessible at all times. Avoid contact with hot asphalt directly.	Moderate	Unlikely	Low	**Operatives, Supervisor**
13	**Placing Concrete - Slips, trips and falls, Eye Injury** , HAVS, Burns, ingestion - **W, V & OP**	Moderate	Possible	Medium	Full 6 point PPE to be worn at all times, including steel toe and mid-sole Wellington boots if spreading/vibrating concrete inside a shutter. No bare skin on the arms and legs. Take extra care when walking over reinforcement. Limit use of Vibrating Poker to manufactorers recomendations. COSHH Assessments must be adhered to at all times.	Moderate	Unlikely	Low	**Operatives/ Supervisor/ Management**
14	**Operating Construction Plant -** Fatality, crushing, breaks, minor injurie - **W, V & OP**	Major	Possible	Medium	Operators shall be trained and/or competent to operate Plant Machinery. Supervisor shall complete 'permit to operate plant' document in site pack prior to works commencement. Operator must complete daily defect checklists, records shall be compiled and retained on site. Plant engines shall not be idle if unattended, never leave the keys in unattended plant. Operator shall manoeuvre under the control of a competent banksman. Operator shall signal people with a 'thumbs up; to recognise he has seen them and it is safe to pass.	Major	Unlikely	Medium	**Operatives, Supervisor**
15	**Access and Egress of Vehicles** - Driver or other people not using 3-points of contact, jumping out/off vehicles, slipping and/or falling, uneven ground surfaces - Broken bones, Muscular-skeletal and minor injuries - **W & OP**	Moderate	Possible	Medium	Operators/Drivers and authorised staff must be trained and/or competent in access and egress of vehicles. Anyone getting in/out, on/off LGV vehicles must use 3 points of contact at all times and wear appropriate PPE, including slip resistant foot wear. Prior to access/egress, persons to checks steps or other means of access/egress is in good condition and fit for purpose. All defects must be reported and rectified in a timely manner. Access/Egress to load area must be by the ramps (where fitted) or by the steps fitted for access/egress to the load area/vehicle load bed. Drivers 'toolbox talk' on how to avoid falls to be given and refresher sessions to occur at regular intervals.	Moderate	Unlikely	Low	**Driver, Transport Manager**

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16	**Manoeuvring including forward motion, turning, reversing, towing, coupling/uncoupling, and parking movements.** People unaware that vehicles are moving, People in vulnerable (Blind spots) areas, Vehicle and/or Trailer Brakes not applied, In-adequate lighting arrangements (lighting not used), Pedestrian access, Other vehicle (including plant equipment) movements, Limited manoeuvring space at busy times. Fatality, crushing, broken bones	Major	Likely	High	The site shall be well-lit at all times, with sufficient and adequate lighting during the hours of darkness or poor visibility. All persons shall wear PPE including Hi-vis clothing. Manoeuvring including, turning, reversing, towing, uncoupling, and parking movements, only to be carried out with a banksman. Speed limit of 5 mph to be managed, controlled or enforced. Vehicle movements, and in particular, reversing to be kept to an absolute minimum and only when unavoidable. Vehicles manoeuvring including forward motion, turning, reversing, towing, coupling/uncoupling, and parking to use hazard warning lights at all times. Audible reversing alarms to be used when reversing. Driver must ensure that they are familiar with the local rules when operating on/at other sites.	Major	Possible	Medium	**Driver, Transport Manager**
17	**Loading and unloading of vehicles, including plant equipment -** Manoeuvring of large/heavy equipment, Failing to follow or use safety measure and/or equipment, Blind spots and Lack of vision (including poor light), Other people working in the area of the activity, Weather conditions, Lack of communication between spotter and driver/operator - Fatality, crushing, broken bones - **W, V & OP**	Major	Likely	High	Where practicable, the vehicle driver shall ensure that the vehicle is positioned on firm, level ground away from other work activities or where others may be at risk. The vehicle (and trailer) brakes must be applied and any additional safety equipment (such as chocks and support legs) are utilised to ensure the vehicle will not move unexpectedly. The vehicle keys must also be removed and kept on the drivers person at all times whilst the loading and unloading is taking place. The loading (and unloading)/operating of plant equipment shall only be carried out by Operators who have been trained and/or assessed to be competent to operate the Plant equipment being loaded/unloaded. Safety equipment fitted to the plant equipment shall be used, i.e. seat belts and rollover protection. Work area must be adequately lit to enable driver and/or operators to be able to see all areas of the work activity, particular during the hours of darkness. Loading/unloading shall not take place where there is a risk from overhead cables, pipes or other obstructions and wherever possible, considerations must be made for the weather conditions, i.e. icy, wet, windy. A spotter (Banksman) shall be used where necessary, when available and where/when reasonably practicable. The spotter shall remain visible to the person loading/unloading the vehicle and in a safe position. An agreement is to be made on the signals to be used whilst the loading/unloading takes place. No personnel shall be on the vehicle or in the load area whilst loading or unloading of plant equipment activity is taking place. During the loading and unloading operation, all personnel not involved in the activity, shall stay at a safe distance or in a pre-defined safe area. Drivers 'toolbox talk' on loading and unloading to be given and refresher sessions to occur at regular intervals.	Major	Possible	Medium	**Driver, Transport Manager**
18	**Working close to railway lines Risk** - Fatality, Life changing and serious injuries - **W & OP**	Major	Possible	Medium	Network Rail to be informed of our works. Daily briefings to remind all those on site of the presence of live railway lines adjacent to the site. Heras fencing clad in debris netting to be erected along the boarder of the railway lines. No slewing of Excavators or Grab Lorrys within 3 metres of the railway lines. Water to be sprayed continually while excavating.	Moderate	Unlikely	Low	**Supervisor, Machine drivers, Grab Lorry Drivers, Operatives**
19	**Tools & Equipment -** Cuts, Bruising, Loss of digits, entrapment - **W**	Moderate	Possible	Medium	All plant must under-go a daily inspection by operators before use which will be recorded on the PUWER inspection form. Small hand tools shall be visually inspected prior to use. Defective equipment shall be reported to the works supervisor immediately and segregated to avoid unintended use. Tools plant and equipment must not be interfered with or modified in anyway. Operatives must not attempt to fix any defective tools or equipment on site. All persons must only use equipment they are trained and competent to use. Plant and equipment must be switched off when not in use.	Moderate	Unlikely	Low	**Operatives, Supervisor**

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20	**Environment -** Harm caused to the surrounding or wider environment; pollution of water courses, air pollution & contamination- **OP**	Moderate	Possible	Medium	Consideration is to be given to the surrounding environment, all waste materials are to be stored in a segregated area and further separated from the surface they are to be placed on by the use of physical barrier (plywood sheeting). All slurry from any cutting operations is to be contained and disposed of correctly. Any gully's, drainage or waterways in the area are to be identified and located and works carried out in such a way as to not allow any materials to enter the drainage system or any local waterways.	Moderate	Unlikely	Low	**Operatives, Supervisor**
21	**Winter Working -** Injury, breaks & fractures, Fatality - **W, V & OP**	Major	Likely	High	Operatives shall be encouraged not to rush/run in icy conditions and pay particular attention at kerbs/steps. Operatives shall maintian three points of contact when accessing/egressing vehicles. Travelling speeds shall be reduced when operating mobile plant or vehicles as stopping distance may increase in wet/icey conditions. extreme casution shall be exercised when using tools and equipment in icey conditions. Plant & Vehicles (of all sizes) shall be cleaned regualry to maintain positive visibility. Levels of consumables (e.g screen wash) shall be regualry c heked to ensure there is enough for proposed jounreys.	Major	Possible	Medium	**Operatives, Drivers, Fitters**
22	**Coronavirus - Covid 19** - Contagious, breaathing difficulties, coughing, Fatality **W - V - OP**	Major	Possible	Medium	Do not come to work if you or anyone in your household show signs of having contracted the virus. Wear a dust mask at all times while working. Wash your hands regularly for at least 20 seconds. Maintain 2 metre distancing from work colleagues and the general public. Sneeze into a tissue or the crook of your elbow.	Moderate	Unlikely	Low	**S'visor & Op's**