DEMOLITION ENVIRONMENTAL MANAGEMENT PLAN

WORKS TITLE	Demolition Works
LOCATION	Portal Building, Site 13B, Sherwood Park, Annesley, Nottingham. NG15 0DR

On Behalf Of	
CLIENT	Port@l Limited
PROJECT NO.	**4572**

Prepared by	*Phil Stevenson MIDE*	Date	*03.10.2024*	Signed	[redacted]
Approved by	*Melvyn Cross MIDE*	Date	*03.10.2024*	Signed	[redacted]

Issue Status				
	Issue One	Issue Two	Issue Three	Issue Four
	03.10.2024	08.10.2024		
	Issue Five	Issue Six	Issue Seven	Issue Eight

REVISIONS ARE IDENTIFIED BY A VERTICAL LINE TO THE RIGHT OF THE AMENDED/ADDED TEXT

Contents

IMPORTANT NOTE:
All details of the Project, including Project information, Permits, Integrated Management System Procedures, Assessments, etc. are detailed in the Construction Phase and Demolition Plan, related task/area specific Method Statements and Plans of Work (notifiable asbestos removal). The Construction Phase Demolition Plan, Safe Systems of Work and related Risk Assessments form an integral part of the Project Management and Methodology.

1 Introduction	
1.1	The purpose of this document is to outline the framework and measures by which the Company controls environmental issues for which we have responsibility. It has been developed to provide direction to specific procedures that control activities that have, or have the potential to, an environmental impact. It also addresses the roles, responsibilities and authorities of the Project Management Team who ensure that the policy is carried out effectively.
1.2	This plan has been formed for the demolition works at the Portal Building, Site 13B, Sherwood Park, Annesley, Nottingham. NG15 0DR.
1.3	The works include: 1. Site Set Up 2. Soft Stripping of the Structures 3. Demolition of Structure Down to Ground 4. Removal of Floor Slab, Footings / Foundations, Identified Hard Standing and Drainage to the Footprint of the Former Building. 5. Segregation and Removal of all Demolition Arising (with exception to the salvaged materials) to a Licensed Waste Recycling Facility.
1.4	The start date for these works is TBC. The duration of these works is 10 weeks from the start date. The working hours for the site shall be: • Monday to Friday 08:00am to 18:00pm • Saturday 08:00am to 13:00pm Works outside of these hours will by agreement with the local planning department No noisy works shall be carried out outside the times stipulated above with prior consent from the local authority.

2 Organisation

2.1	The Company Organisation Chart (Appendix A) shows the environmental responsibilities within the Company. The defined personnel receive necessary information and training commensurate with their responsibilities within the Company. Full details or responsibilities are detailed in the Safety, Health and Environmental (SHE) Policy; this document, a copy of which is always available on Site, forms part of our Integrated Management System (IMS).
2.2	Contact Details Melvyn Cross – Managing Director [redacted] Martin Cross - Contracts Director [redacted] Phil Stevenson – H&S Manager [redacted] Steven Cross – Site Manager / Supervisor [redacted]

3 Control Measures

3.1	A brief overview of the control measures in place to minimise the impact to the environment as a result of Company Activities is as detailed in this section. Full control methodology is defined within the IMS Procedures and related 'safe systems of work' and related Risk Assessments generated for all works activities on site.
3.2	**Waste** All waste will be handled and disposed as detailed in the Department for Environment Food and Rural Affairs (DEFRA) publication '*Waste Duty of Care Code of Practice'* and as detailed in Section 9.0 of this document - Waste Management and Waste Streams.
3.3	**Use of Energy and Water** Temporary site establishments will be weatherproof and insulated with thermostatically controlled heating. *Discharges to Water and Land* All plant, equipment and transport will be: • Fuelled from double bunded storage areas which have spill kits close at hand. • Maintained in designated bunded areas wherever feasible. • Be fitted with drip trays wherever possible. • Be subject to wheel cleaning prior to accessing roadways off site if appropriate. Effluent from ablutions will be connected to public sewers wherever possible or stored in suitable leak proof containers for specialized disposal.
3.4	**Nuisance - Noise & Vibration** Noise and vibration disturbance will be minimized by: • Ensuring all equipment is serviced and maintained to minimise noise and vibration. • Utilising mains power instead of generators where feasible. • Working within agreed hours Disturbance to the local community and third parties will be minimised by: • Only utilising agreed access and egress points. • Working within local authority imposed working hours. • Parking in designated areas only. • Observing good neighbour procedures and reporting any complaints to the QHSE Manager. • Obeying traffic and pedestrian management schemes. • Planning deliveries in off peak periods where practicable. • Ensuring information on disruptive activities is adequately communicated by appropriate means, including newsletters, site visits, visits to local schools etc. • Timing/type of activity to be assessed and programmed to reduce impact. • Sound insulated generators/equipment. • Use of grab/shear/concrete cracker attachments to minimise use of impact breaker during demolition operations.

- Sub-structure removal – breaker attachment will be required however minimization of break points and 'lifting' of slab sections carried out to reduce noise issues.
- On-site noise monitoring where required.
- Whenever heavy plant operates the surrounding area (to provide a clear 20m exclusion zone) to be designated as a mandatory hearing protection zone. Pedestrian barriers with mandatory hearing zone signage affixed to be installed at approach points to the areas to alert persons on site of the necessity to don their hearing protection.
- All pneumatic tools will be fitted with silencers or mufflers.
- All plant items will be properly maintained and operated according to the manufacturers' recommendations in such a manner as to avoid causing excessive noise. All plant should be sited so that the noise impact at nearby noise-sensitive properties is minimised.
- Machine operator to switch off during idle times to reduce emissions / noise etc.
- local hoarding, screens or barriers will be erected as necessary to shield particularly noisy activities.
- Ensuring maximum noise levels as detailed in the Control of Pollution Act – 'Schedule of Maximum Permissible Site Boundary Noise Levels' are not exceeded.
- Following the noise and vibration guidance detailed within BS 5228-1.2009+A1.2014 Part 1 Code of practice for noise and vibration control on construction and open sites - Part 1 – Noise and BS 5228-2.2009+A1.2014 Part 1 Code of practice for noise and vibration control on construction and open sites - Part 2 – Vibration.

Day	Time	Maximum Noise Level (Hourly)
Weekdays Weekday evenings Weekday nights	0700 to 1900 (7.00 am to 7.00 pm) 1900 to 2200 (7.00 pm to 10.00 pm) 2200 to 0700 (10.00 pm to 7.00 am)	75dBA 65dBA 35dBA
Saturdays Weekends	0700 to 1200 (7.00 am to 12.00 midday) 1200 Saturday to 0700 Monday (12.00 midday Saturday to 7.00 am	75dBA 35dBA
Bank Holidays & Local Holidays	At any time	35dBA

3.5

Nuisance - Dust

Any works where generation of dust is likely is to be controlled, in the first instance, by at-source damping down and/or LEV/natural ventilation control measures. RPE is to be provided to further control exposure (as per the PPE register).
Each operative is to hold a current face-fit test specific to the RPE provided.

- Selection of suitable plant/equipment/LEV extraction
- Preparation of area to promote natural ventilation – opening of doors/windows etc.
- Selection of suitable RPE
- Minimising exposure to dust by installation of control measures
- Monitoring employee's exposure

Demolition methodologies will take cognisance of the risks entailed in the work activities and exposure to dust with additional controls installed where practicable: -

Pre-start

- identification of sensitive receptors (over and above on-site personnel)
- Resource allocation – suitable number of dust suppression units available on site
- LEV/natural ventilation installed for required soft-stripping works.

On-Site Controls:

- Identification of wind direction and placement of dust suppression in the most appropriate position (damping down units to be mobile to enable relocation as required).
- Continual monitoring of weather conditions and dust emissions.
- Minimisation of traffic flows through the site – containing access / welfare / loading / unloading / clean-down and storage.
- Phasing the works to maximise the benefit from perimeter structures and to enable traversing back to loading / welfare zone at all times.
- Ceasing of works as required and introduction of additional controls should works require.
- All arising to be transported off site to have easy sheet in place prior to leaving the site.
- Test spray area to ensure adequate coverage.
- Correct sheeting of containers or vehicles containing materials before leaving site
- Inspection of inward and outward vehicles.
- Clean-down of wheels before leaving site.
- Visual inspections of internal access roadways.
- Visual inspection of working areas and introduction of damping down operations.
- Introduction of road-sweeper – internal roadways and cleared slab areas.
- Ceasing of works and introduction of additional controls should works require.
- Excavators will be utilised employing rotating shear or grab attachments which will enable grasping of structural elements and lowering rather than ‘dropping’ operations.
- At source damping down - Dust Boss / Mobile bowsers with spray head attachment to be available on site and set up to ‘curtain’ the mechanical demolition exclusion / buffer zones throughout the works to provide a fine mist application during:
    - mechanical demolition.
    - onto the spoil heaps.
    - during loading/processing operations.
      NOTE: This ‘fine mist’ method ensures that the particulates are captured at source and brought down rather than becoming airborne.

Environmental monitoring (Dust, Noise, and Vibration) shall be installed at pertinent locations on site, taking into consideration sensitive receptors outside of the site boundary. The monitoring equipment shall provide daily reports via email but also SMS alerts for if any of the ‘trigger’ levels for dust, noise or vibration are exceeded. These SMS alerts shall be received by the TRD management team, including the site manager. Should any alerts be received then the works shall be suspended, and an investigation carried out. This may result in a change of methodology or introduction of further control measures.

3.6	**Environmental Planning** Environmental planning will be carried out by: • Undertaking electronic preparation, transfer and storage of information wherever feasible. • Briefing company personnel on site specific environmental matters. • Carrying out site inductions and attending Client inductions as appropriate. • Maintaining awareness of and communicating results of ecology surveys to all persons on Site. • Respecting the presence of rare endangered and protected species such as bats, badgers, newts, toads, orchids etc. • Assisting in communications with regulatory bodies and third parties. • Integrating environmental issues into Environment Management Plans, Method Statements and related assessments (Risk, COSHH, Environmental, etc.). • Carrying out environmental aspects, impacts and risk assessments. • Carrying out inspections/audits to ensure adherence to agreed environmental work practices. • Ensuring response procedures are drawn up and communicated to the workforce in anticipation of harmful unplanned events taking place. • Providing adequate environmental training to company personnel. • Drainage systems to site shall be covered over with a geo-textile material. This will allow water to drain away but shall prevent any demolition waste from entering the system. • Re-fuelling areas on site shall consist of double bunded tanks for fuel, drip trays, spill kits and firefighting equipment. TRD's emergency spill procedure shall be posted in the site welfare facilities and shall be briefed to all operational staff as part of the site induction. • Deliveries and collections to the site shall be planned in advance and, where possible, shall be made outside of peak traffic hours to reduce congestion in the area. The Traffic Management Plan in appendix E will detail all controls regarding vehicle movements to and from site.
3.7	***Visual Appearance*** Visual appearance of the site will be such as to provide minimum intrusion onto neighbours by: • Ensuring that the intensity and direction of permanent and temporary security and general lighting is strategically sited so as not to cause annoyance or harm to the workforce, the local community of third parties. • Ensuring that hoardings and perimeter fencing are of robust construction, are maintained in good order and are always sensitive to the locality. Ensuring good housekeeping is maintained and that the site presents as good an appearance as is reasonably practicable within the nature of demolition activities.
3.8	***Artificial Lighting*** Total Reclaims Demolition do not require to use artificial lighting on this project.

3.9	***Protection to General Public and Road Users*** The site will be secured using Heras fencing where required to prevent inadvertent access to the site. The fencing will be inspected a minimum of twice daily for damage. Any damage found shall be temporarily fixed to ensure the site is secure until a permanent repair / replacement can be carried out. A traffic management plan has been formulated for these works and can be found in appendix E of this document.
3.10	***Signage to Site*** The site entrance gates will have the TRD site manager's contact details posted to them. Persons wishing to enter the site are to contact the TRD site manager who will arrange for their safe access onto site. Danger demolition signs will be posted to the site hoarding to warn the general public of the dangers within the site. Site access signs shall be posted to the entrance of site.

4 Environmental Aspects, Impacts and Risk Assessments

4.1	The Environmental Aspects and Impacts assessments identify the environmental issues relating to our works activities and their environmental aspects, impact(s) and their significance. Environmental Risk Assessments detail risks and related control measures required to minimise risks to the environment arising from our operations. The Environmental Risk Assessments in association with the task/area specific safety Method Statement(s) detail fully the measures implemented to ensure control of our operations. The Environmental Aspects, Impacts and Risk Assessments [Site and Office] (Appendix B) identify the severity, likelihood, significance rating and control measures for our work activities.

5 Ecological Mitigation Measures

5.1	Prior to commencement of the works, the site will require surveying by ecologists for the presence of protected species such as nesting birds or bats. This will include any trees, bushes or shrubs that are to be removed as part of the works. This will be done on the day of removal or as close to the time as possible (In agreement with the ecologist). If any bats are found during the survey, the surveyor will either provide a licensed bat worker to the site or provide a member of staff who will liaise directly with Natural England. Actions will then be taken following advice given by Natural England. This may include removal of bats, but only where direct written or verbal permission is gained from Natural England. If at any point during the works bats or evidence of bats are found, then the TRD Site Manager/Supervisor shall stop the work immediately and contact the bat surveyor

5.2	In order to prevent damage to the retained trees and their rooting zones (RPAs) it is important that protective fencing and/or ground protection is erected around each tree or group of trees. This area is known as the construction exclusion zone and is based on the Root Protection Area (RPA) and should be considered a complete exclusion zone, including the storage of machines, materials etc. The RPA is defined as the area surrounding the tree that contains sufficient rooting volume to ensure the survival of the tree. The diameter of the stem is used to calculate the RPA. It is important that the erection of protective fencing is carried out before any development work is commenced or machines are brought on site. Within BS 5837:2012 the correct methods for constructing tree protective fencing/barriers are set out. It should be fit for the purpose and appropriate to the degree and proximity of work taking place around the tree/s. During the entire construction period the fencing should be retained in its original position, entirety and rigidity. The default specification for a protective barrier and their above ground stabilisation are contained within the SSW, although Heras fencing can often be acceptable as a cost-effect alternative. All barriers must have affixed to them all weather notices stating, 'Tree Protection Zone – Keep Out'.
5.3	Drainage systems to site shall be covered over with a geo-textile material. This will allow water to drain away but shall prevent any demolition waste from entering the system and contaminating ecology.

6 Operational Controls

6.1	The Environmental Management Systems are integrated within the Integrated Management System (IMS) Procedures; compliance with these Procedures is a strict and absolute requirement of the Company. The environmental processes for the generation of waste are integrated within task/area specific Method Statements and related assessments. All records are contained in our Management System and are subject to controlled issue. The detailed procedures for issue/retention of records and requirement for internal audits are: • Document Control. • Quality Records. • Internal Quality Audits.

7 Environmental Incidents

7.1	Spill kits will be located at appropriate points around the site, especially near re-fuelling points, with plant/equipment and in the site office. Any spills will be cleaned up immediately using suitable absorbent materials, crystals, pads or booms, contained within the spill kit.

7.2	In the event of any spills the following actions will be carried out: ➢ Use absorbent material to contain the spill. ➢ If it is a major spill: ○ Cover or bund any nearby drains that are not already protected. ○ If practical use absorbent crystals to clear spill, if not, use bowser and pump. ➢ Dispose of all absorbent materials in a suitable container for disposal as hazardous waste.
7.3	To benefit the site environment and reduce the likelihood of spills/environmental incidents, a clean and tidy site area around refuelling points will be maintained and good housekeeping will be carried out in all areas on site. Details of all spills will be recorded into the Site Incident Register to enable review of environmental performance and identify any trends emerging. Re-fuelling areas on site shall consist of double bunded tanks for fuel, drip trays, spill kits and firefighting equipment. TRD's emergency spill procedure shall be posted in the site welfare facilities and shall be briefed to all operational staff as part of the site induction.

8 Communication & Training

8.1	**<u>Induction</u>** The Company carries out induction of all Company personnel, these are: ➢ *Company Induction* All employees receive an induction into the Company, this provides information relating to the health and safety requirements, environmental requirements, management systems, terms of employment, etc. ➢ *Project Specific Induction* All personnel, both Company and Sub-contractor personnel, will receive Site induction and are required to understand and follow the requirements of site-wide documentation and arrangements; these include, but are not limited to: ➢ Construction Phase Plan. ➢ Environment Plan and related Environmental Risk Assessments. ➢ Site Waste Management Plan, if appropriate. ➢ Emergency arrangements. ➢ Client and Principal Contractor Site requirements, as appropriate. ➢ Site Rules – Company, Client and Principal Contractor, as appropriate; in addition, Site personnel may be required to attend Client and/or Principal Contractor Induction; this is generally a requirement to inform personnel of Client and/or Principal Contractor Site safety and environmental requirements, including Site Rules and Regulations ➢ *Task/area specific Inductions (RAMS)* Company Operatives will receive induction into task/area specific Method Statements/Plans of Work and related assessments, risk, manual handling, COSHH, etc (RAMS). Sub-contractors will be required to have a similar system to demonstrate satisfactory task/area specific inductions are carried out. ➢ *Pre-start briefing* All personnel on Site will receive pre-start briefing; this briefing identifies where works

		being carried out that day, plant movements, any potential issues with regards to work areas, access/ egress, etc. and on 'live' sites any potential areas where there may be others working adjacent to our works. In addition, the pre-start briefing is an opportunity for Site personnel to raise any areas of concern regarding safety, health, environmental issues on Site. Details of the inductions will be recorded onto appropriate designated documentation detailed within the Integrated Management System (IMS); all personnel are required to sign the appropriate Induction documentation to confirm their receipt of the induction
	8.2	**General Training** The Company will ensure that all operatives on this project are fully conversant with the safe systems of work and environmental requirements intended for this project. All employees are screened for competency on joining the company and will have received Health and Safety and Environmental Induction training prior to commencement of their duties on site. Due to the nature of Company operations these considerations are inextricably interlinked and are embedded within the IMS. No operatives will be allowed to work on projects unless they are fully trained in the work they are being asked to do, or alternatively, they are under training and supervised by a person competent in that task. Training records are held on file at Head Office. These records contain details of training received prior to employment by The Company, together with all "in house" and external training achievements whilst employed by the Company.
	8.3	**Ongoing Training** Ongoing training will be given to all operatives as deemed appropriate and will take the form of CITB or other training providers courses (e.g. Safety Awareness) conducted by external training bodies. Specialist training courses will be provided to suit the requirements of specific trades/skills.
	8.4	**Toolbox Talks** Toolbox talks are part of the Company safety and environmental procedures and are given by the Site Supervisors on a weekly basis. The talks are recorded, and the operatives sign as having attended and understood. Scripts covering many topics are available to all Site Supervisors and cover a wide variety of relevant topics.
	8.5	**Daily Safety Briefings** Morning briefings will be given to all persons on site to provide an update on the planned works for that day, any no-go areas, working / access zones, safety issues and controls, weather, and any other information deemed necessary to ensure all persons are aware of the site, their works, the environment and sensitive receptors and provide a platform for questions to be raised.

9 Waste Management and Waste Streams	
9.1	All waste produced will be: • Appropriately handled, particularly in the case of hazardous or toxic waste, by competent personnel and competent/licensed operators. • Segregated where feasible to aid recycling. • Promptly placed in the appropriate disposal area, stockpile or receptacle. • Disposed of in accordance with requirements of the Environmental Protection Act 1990, section 34(1) Part II, Waste Management Duty of Care, the Hazardous Waste Regulations 2005 and other related legislation. A Site Waste Management Plan (SWMP) will be generated, this will generally be in accordance with the revoked Site Waste Management Plan Regulations
9.2	Company records will also identify quantities of waste materials, their categories, destination, recycled reused or to landfill (last resort); these records will be maintained in designated format and will be provided to the Client if required by Contract conditions. A Demolition Recovery Index (DRI) will be calculated upon completion of the Project; this will be retained in the DRI Register. The Waste Streams Flowchart (Appendix C) gives an overview of the waste categories and their destinations.
9.3	Absolutely no waste shall be burned on site at any point during the demolition works.

10 Complaints & Recording of Incidents	
10.1	The H&S Manager or nominee will maintain an Incident Analysis Record (Form 8G). The Incident Analysis Record will record brief details of all dangerous occurrences/near misses, accidents and environmental incidents and causation factors; input onto the Incident Analysis Record will be the Site Incident Records, Incident/Near Miss Report Forms and Accident Reports, refer QP 7.2.
10.2	In addition, the H&S Manager may extract information from the Incident Analysis Record to utilise in comparative exercises for presentation and review purposes
10.3	Details of all Client or other complaints including pollution incidents, breaches of permit conditions etc. will be recorded in the Non-Conformance Register (Form 8H) by the recipient of the complaint for implementation of appropriate corrective and/or preventive actions.
10.4	If the complaint is received formally either by letter or electronically, or the Client requests a visit by senior Company personnel, details will be recorded in the Non-Conformance Register and onto a Complaint Record (Form 8J).

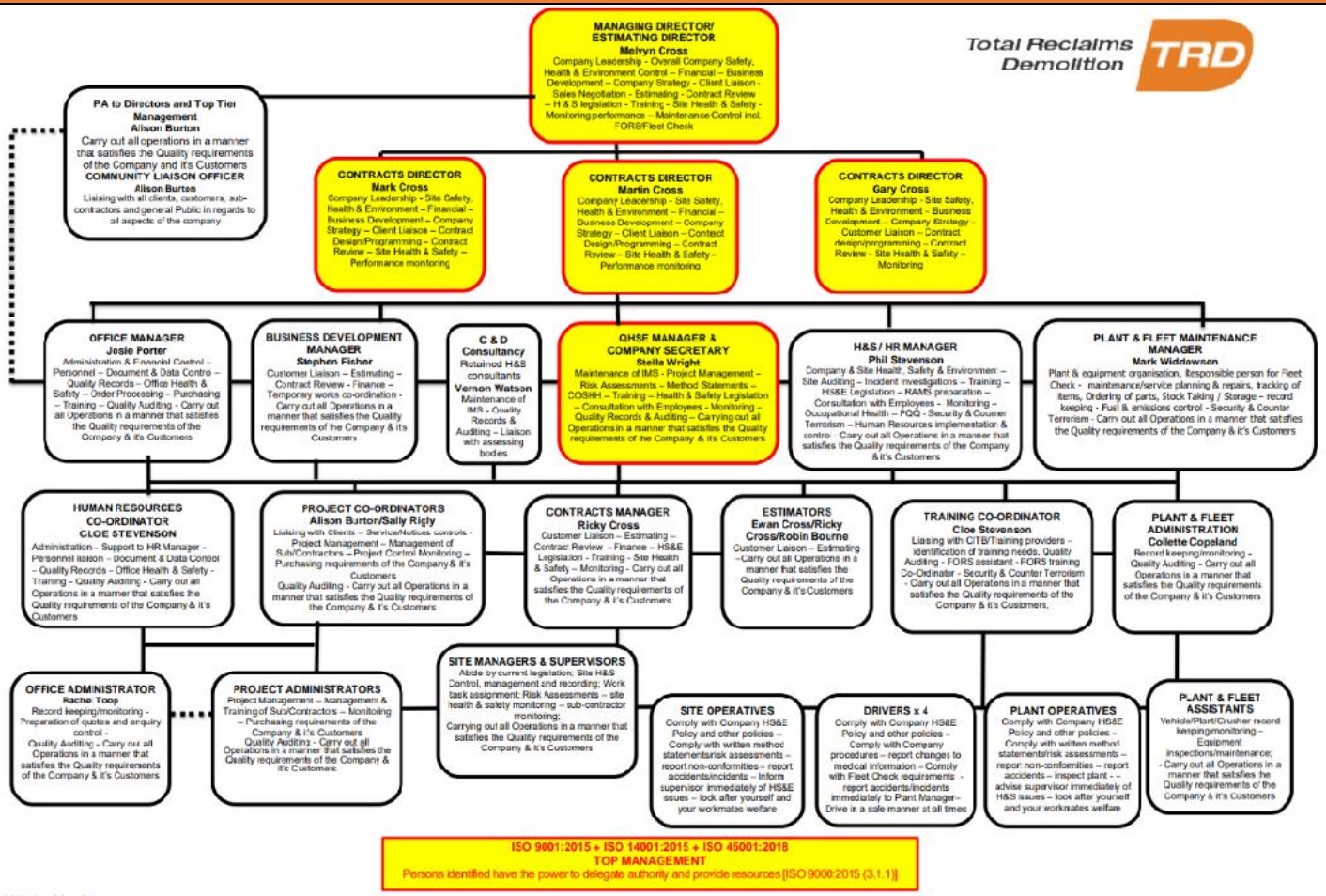
10.5	The H&S Manager or nominee will investigate all complaints which are recorded on a Complaint Record and detail the Corrective Action taken.
10.6	All Complaint Records will be replied to formally by letter, and the 'Brief Details of Reply' section of the Non-Conformance Register endorsed 'Replied by Letter'.
10.7	Brief details of replies to verbal complaints will be recorded in the appropriate section of the Non-Conformance Register.

11 Review	
11.1	The Site Supervisor will carry out an ongoing review of environmental and safety performance; this will be recorded formally on a weekly basis by completion of appropriate IMS documentation.
11.2	The Managing Director, in association with the H&S Manager, will review environmental performance on an ongoing basis.
11.3	At the reviews appropriate corrective action measures will be developed and implemented to ensure continuous process improvement is maintained.
11.4	All corrective action measures will be taken in a time period commensurate with the seriousness of the deficiency and/or the scope for improvement in environmental performance.
11.5	A review of Company performance, including health and safety, environmental and operational issues, is carried out on an ongoing basis.
11.6	A formal review is carried out annually at the Management Review Meeting – this is a formal meeting, and minutes will be documented as required by the IMS.

12 Appendices

Appendix A - Company Organisation Chart

A1



Appendix B - Environmental Aspects, Impacts and Risk Assessments

B1

ENVIRONMENTAL ASPECTS & IMPACTS + ENVIRONMENTAL RISK ASSESSMENTS – Demolition Site

KEY					
ENVIRONMENTAL RISK RATING (RR = Severity [S] x Frequency [L]) - IRR = Initial Risk Rating + RRR = Residual Risk Rating					
SEVERITY OF CONSEQUENCE (S)	**(1) Negligible** Minimal loss/impact to the environment	**(2) Marginal** Minor loss/impact to the environment	**(3) Serious** Moderate loss/short term damage to the environment	**(4) Critical** Significant Loss/medium term damage to the environment	**(5) Catastrophic** Catastrophic loss/long term damage to the environment
LIKELIHOOD OF OCCURRENCE (L)	**(1) Improbable** Annually, Very unlikely/will never occur	**(2) Remote** <3 months, Unlikely but possible	**(3) Occasional** Monthly,	**(4) Probable** Weekly, Several times	**(5) Frequent** Daily, Many occasions

SIGNIFICANCE RATING [SR]	
Significance Rating [SR]	**Remedial Action**
LOW (1- 8) [L]	No further mitigation required – periodic monitoring
MEDIUM (9 – 18) [M]	Acceptable – Ongoing monitoring/control and periodic review
HIGH (19 – 25) [H]	Not acceptable – further mitigation required

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 01A	**DUST/PARTICULATE EMISSIONS** Demolition activities	4	5	20	Ill health to workers and others affected by our activities; Damage to wildlife and ecology; Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; Damage or disruption to property; Disruption on roads; Damage to plant/equipment/vehicles.	Demolition undertaken with suitable methods to minimise dust/particulate emissions; Damping down as appropriate – using mobile bowsers, dust bosses, etc.; Segregation – fencing, mesh, etc.; Personal Protective Equipment (PPE) Monitoring and visual inspections;	4	2	8	L
EN 01B	**DUST/PARTICULATE EMISSIONS** Asbestos removal activities	5	5	25		Plan of Work/Method Statement in place before any work starts - identifying required controls and methodologies; Strictly controlled removal; Enclosures constructed as appropriate; Damping down as appropriate; PPE; Monitoring by analyst as appropriate/necessary	5	1	5	L

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 01C	**DUST/PARTICULATE EMISSIONS** Vehicle movements –on and off site	4	5	20	Ill health to workers and others affected by our activities; Damage to wildlife and ecology; Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; Damage or disruption to property; Disruption on roads; Damage to plant/equipment/vehicles.	Damping down – mobile bowsers; Wheel wash; Covered vehicles; Road Sweepers; Speed limitations; Monitoring and visual inspections.	4	2	8	L
EN 01D	**DUST/PARTICULATE EMISSIONS** Crushing/Stockpiles	4	5	20		Damping down; Dust sheets/fencing depending upon location (both of crusher and stockpile(s) and Site, taking cognisance of vicinity of neighbours); PPE; Monitoring and visual inspections.	4	2	8	L
EN 01E	**DUST/PARTICULATE EMISSIONS** Excavations	4	4	16		Dust sheets/fencing; Monitoring and visual inspection.	4	2	8	L
EN 02	**SPILLS** Fuelling plant/equipment Servicing and maintenance activities Burst hoses Delivery of fuel Vandalism by trespassers Overspill of bund Demolition of redundant tanks/vessels/ pipework releasing material residues.	5	4	20	Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; ***Major spills (additional to above)*** Damage or disruption to property; Disruption on roads.	Spill kits available at designated locations around Site, particularly high-risk areas (particularly in refuelling areas, adjacent to storage tanks); All fuel tanks to be bunded and locked when not in use; Where Site conditions allow, segregated refuelling area for plant/ equipment; Ensure proper decontamination of redundant tanks/vessels/ pipework and check before demolition activities commence; Maintain good Site security.	5	2	10	M

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 03A	**NOISE** Demolition activities - use of demolition plant/equipment, compressors, and generators.	4	5	20	Ill health to workers and others affected by our activities; Complaints by residents; Legal Action by Statutory Authorities; Disruption and disturbance to wildlife; Failure to meet requirements laid out by Local Authority/S81.	Demolition of Buildings undertaken with a suitable method to minimise noise/ vibration; Hearing protection zones; PPE; Plant/equipment to be effectively silenced, serviced and maintained; Compressors and generators to be of super silenced type; Strict Control of working hours to be maintained; No out of hours working; Noise monitoring.	4	3	12	M
EN 03B	**NOISE** Demolition activities/on Site vehicle movements	4	5	20		No reverse beepers; No idling engines; Vehicles to be serviced and maintained; No out of hours working; Acoustic barriers if necessary/ appropriate; Noise monitoring.	4	2	8	L
EN 03C	**NOISE** Deliveries/collections.	4	5	20		No parking/queuing outside Site; Scheduled deliveries; Consideration of times of deliveries – none within school start/finishing times; No out of hours deliveries.	4	2	8	L
EN 03D	**NOISE** Human - Site personnel/work activities + use of welfare facilities.	3	5	15		Communication radio volumes to be maintained at a low level; No radios; No horseplay or shouting/swearing, especially near Site perimeter; All personnel to behave in a sensible manner; Behavioral toolbox talks; Monitoring and supervision.	3	2	6	L
EN 04A	**WASTE - CONTROLLED** Demolition activities.	4	4	16	Ill health to workers and others affected by our activities; Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Legal Action by statutory authorities.	Waste Management Plan – maximise re-use/recycling; Segregation of waste into appropriate waste streams; All waste to be removed as detailed in the related Method Statement under defined conditions/control measures; PPE;				

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 04A (cont.)	**WASTE - CONTROLLED** Demolition activities.	4	4	16	Ill health to workers and others affected by our activities; Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Legal Action by statutory authorities.	Duty of Care Waste Transfer Notes to accompany all waste leaving Site; Environmental Monitoring; Environmental awareness training; Waste removed by licensed carriers to suitable designated facility.	4	2	8	L
EN 04B	**WASTE - HAZARDOUS** Asbestos removal – licensable and non-licensable; Demolition activities - disposal of hazardous chemicals/ substances.	5	4	20	Ill health to workers and others affected by our activities; Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Breach of asbestos legislation; Legal Action by statutory authorities.	All hazardous waste to be removed as detailed in the related Plan of Work/Method Statement under defined conditions/control measures; PPE; Hazardous Waste Consignment Notes to accompany all waste leaving Site; Environmental Monitoring; Environmental awareness training. Waste removed by licensed carriers to suitable designated facility.	5	2	10	M
EN 05A	**ECOLOGY - BATS** Asbestos removal and demolition activities	5	4	20	Injury to or death of bats; Loss of roosts; Potential of loss of species due to loss of habitat; Breach of Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	**i) Structure – Roofs** ***Pre-start Inspection*** Check any crevices underneath the roofing materials, including the underside, as it is removed. Check any crevices around roof beams. ***Methodology*** Remove any ridge tiles, slates, flashing, or roof coverings using hand tools only; slates/tiles to be lifted vertically to prevent any bats from being crushed. Remove any timbers/beams by hand **ii) Structure – Walls/Eaves** ***Pre-start Inspection*** Using a torch, examine carefully, any wall cavities for bat droppings or bats. ***Methodology*** Dismantle brickwork, taking particular care with loose brickwork, by hand. ongoing basis during removal.	5	1	5	L

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 05A (cont.)	**ECOLOGY - BATS** Asbestos removal and demolition activities	5	4	20	Injury to or death of bats; Loss of roosts; Potential of loss of species due to loss habitat; Breach of Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	**iii) Windows/doors** ***Pre-start Inspection*** Examine any crevices around windows or door frames before removal and on an ***Methodology*** Where crevices are present around windows or doors, the window or door will be removed carefully using hand tools only. **IF THE PRESENCE OF BATS IS IDENTIFIED OR ANY BATS ARE DISCOVERED ALL WORKS MUST STOP IMMEDIATELY, THE CAVITY MUST BE RE-COVERED OR PROTECTED. AND THE SITE MANAGER NOTIFIED** **THE SITE MANAGER WILL IMMEDIATELY CONTACT THE SITE ECOLOGIST FOR ASSISTANCE.** **COMPANY PERSONNEL MUST NOT HANDLE BATS - ONLY LICENSED BAT HANDLERS CAN MOVE BATS.** **IDEALLY, THE BAT WILL BE ALLOWED TO LEAVE OF ITS OWN ACCORD.**	**5**	**1**	**5**	**L**
EN 05B	**ECOLOGY - BADGERS** Asbestos removal and demolition activities	5	4	20	Injury to or death of badgers; Damage/destruction of setts; Potential of loss of species due to loss of habitat; Breach of Protection of Badgers Act 1992, Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Any Sites where badgers may be present will be surveyed by a designated ecologist and their recommendations followed; Potential impacts on badgers will be mitigated by attempting to avoid affecting the badgers by suitable measures, including, but not limited to: ※ Keeping heavy machinery and excavation work away from setts; ※ Deciding appropriate working distances for activities that might either damage the sett or disturb badgers in the sett; ※ Avoiding loud noises and vibrations near active setts, over and above ※ what the badgers would be used to.	**5**	**1**	**5**	**L**

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RR	
EN 05B (cont.)	**ECOLOGY - BADGERS** Asbestos removal and demolition activities	5	4	20	Injury to or death of badgers; Damage/destruction of setts; Potential of loss of species due to loss of habitat; Breach of Protection of Badgers Act 1992, Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Mitigation measures may include, but not be limited to: ※ Excluding badgers from an area temporarily using badger fencing, provided you do not exclude access to setts; ※ Creating badger crossings for roads; ※ Maintaining foraging and watering areas or creating new areas if needed. If these measures are not possible, a Licence will be applied for and actions taken as required by legislation and guidance issued by Natural England. Application for a licence and subsequent actions will be undertaken by or be under the direct supervision of a designated	**5**	**1**	**5**	**L**
EN 05C	**ECOLOGY – OTHER MAMMALS** Asbestos removal and demolition activities	5	4	20	Injury to or death of species; Damage/destruction of habitat; Potential of loss of species due to loss of habitat; Breach of: Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017and other related legislation; Legal Action by statutory authorities.	Any Sites where protected mammals may be present will be surveyed by a designated ecologist and their recommendations followed; Potential impacts on protected mammals will be mitigated by attempting to avoid affecting their habitat by suitable measures, generally as previously described.	**5**	**1**	**5**	**L**
EN 05D	**ECOLOGY – NESTING BIRDS** Asbestos removal and demolition activities	5	4	20	Injury to or death of nesting birds; Damage to nests; Breaking of eggs; Potential of loss of species due to loss of habitat; Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Carry out Site Ecology Survey + review of any Client provided documentation. Try to programme works outside of the bird nesting season (March - August inclusive). If works during bird nesting season are unavoidable the area will be surveyed by a designated qualified ecologist immediately prior to the clearance taking place. If any nests are found, they must be protected, works will stop in the immediate vicinity and the designated ornithologist contacted for assistance.				

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 05D (cont.)	**ECOLOGY – NESTING BIRDS** Asbestos removal and demolition activities	5	4	20	Injury to or death of nesting birds; Damage to nests; Breaking of eggs; Potential of loss of species due to loss of habitat; Breach of Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Any trees on Site due to be felled or lopped must be inspected; if nests are present or the tree is being defended by an individual bird, work must stop, the tree marked on a plan and retained until the breeding season has ended. Works can commence only when the young have hatched and fledged (commonly approximately 14-24 days for most common birds) - this must be monitored by an ecologist.	**5**	**1**	**5**	**L**
EN 05E	**ECOLOGY – AMPHIBIAN SPECIES** Asbestos removal and demolition activities	5	4	20	Injury to or death of amphibious species; Potential of loss of species (including Great Crested Newts [GCN], Natterjack Toads, Common Toads) due to loss of habitat; Breach of Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Any areas that may contain these species must be thoroughly searched for their presence, this includes ponds, undersides of any windblown litter, discarded fence posts, stones/boulders, and any grass tussocks. Any materials on site will be stored in a suitable manner and rubbish placed in container for disposal. Close attention will be paid to storage areas during the active season (March - September). Where possible, trenches will not be left open overnight, if not possible, a suitable ramp must be constructed to ensure escape is possible. If any amphibian species are detected, they must be safely removed and relocated into a suitable location off site. If GCN are detected, all works must stop immediately. The situation will be assessed and the appropriate licence applied for. This work will be undertaken by or be under the direct supervision of a suitably licensed ecologist.	**5**	**1**	**5**	**L**

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 05F	**ECOLOGY - REPTILES** Asbestos removal and demolition activities	5	4	20	Injury to or death of reptiles; Potential of loss of species (including Adder, Smooth Snake, Sand Lizard, Grass Snake. Common Lizard and Slow Worm) due to loss of habitat; Breach of Wildlife and Countryside Act 1981 (WCA) (as amended August 2020), the Conservation of Habitats and Species Regulations 2017 and other related legislation; Legal Action by statutory authorities.	Any areas that may contain these species must be thoroughly searched for their presence, this includes ponds, undersides of any windblown litter, discarded fence posts, stones/boulders, and any grass tussocks; Any materials on site will be stored in a suitable manner; Rubbish will be placed in container for disposal; Close attention will be paid to storage areas during the active season (March - September); If any amphibian species are detected, they must be safely removed and relocated into a suitable location off site; Other controls are basically as those previously described for Amphibian Species.	**5**	**1**	**5**	**L**
EN 05G	**ECOLOGY – TREE PRESERVATION** Asbestos removal and demolition activities	4	4	16	Damage to trees, particularly those with Tree Preservation Orders (TPO'S) resulting in damage to the immediate environment and long-term damage to the global environment. Legal Action by statutory authorities.	Carry out Site Ecology Survey + review of any Client provided tree surveys or TPO's Ensure any trees with TPO's are identified and suitable protection and signage to maintain a suitable exclusion zone. Any plant/equipment operation in the immediate vicinity of protected trees is controlled by a competent banksman. Monitor the effectiveness of the protection measures on an ongoing basis. Ensure all personnel receive induction to identify their responsibilities.	**4**	**1**	**4**	**L**
EN 05H	**ECOLOGY – INVASIVE SPECIES** Asbestos removal and demolition activities	5	4	20	Damage to immediate environment and potential to spread beyond the immediate location and propagate in other areas. Legal Action by statutory authorities.	Immediately any invasive species are identified, including but not limited to, Japanese Knotweed, Giant Hogweed, Himalayan Balsam and Rhododendrum Ponticum, physically segregate the area. Advise the Client (and Principal Contractor if applicable). Contact a third-party specialist for assistance in removal. Ensure plant and vehicle movements are prohibited in the vicinity.	**5**	**1**	**5**	**L**

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 06	**POLLUTION/LAND CONTAMINATION** Demolition activities; Asbestos removal activities; Site welfare.	5	4	20	Ill health to workers and others affected by our activities; Damage/destruction to wildlife and ecology, both short and long term; Damage to visual amenities; Legal Action by Statutory Authorities; Remediation costs.	Maintain good standards of housekeeping on Site; Any hazardous fluids, including fuel and oils, to be suitably stored either in bunded containers or on bunded trays; Spill kits to be available adjacent to any areas of potential spills; Minimise refuelling locations for plant on Site; Documented emergency procedures; Training, including use of spill kits + reporting spills and emergency procedures; Environmental Monitoring.	5	2	10	M
EN 07	**WATER DISCHARGES/USAGE** Demolition activities Asbestos removal Site welfare	5	4	20	Contamination of groundwater/surface waters/rivers; Damage/destruction to wildlife and ecology, both short and long term; Potential harm to humans; Failure to meet consents; Legal Action by Statutory Authorities.	Ensure hoses/pipes and valves do not leak; Control and monitor use of water; Comply with appropriate licences/ consents; Minimise run off; Silt fences/traps; Bunded areas to contain run off; Non-concussive taps; Water boilers instead of kettles; Training; Environmental Monitoring;	5	2	10	M
EN 08	**LIGHTING** Demolition activities Asbestos removal Site Welfare	3	5	15	Light pollution; Complaints by residents; Legal Action by Statutory Authorities; Disruption and disturbance to wildlife; Failure to meet requirements laid out by Local Authority/S81 or planning conditions.	Careful consideration of direction of lighting away from residential areas as to minimise disruption to nearby residents; Consideration of wildlife and ecology around the site boundaries; All lighting to be switched off out of working hours; Security lighting to be kept at a minimum.	3	2	6	L
EN 09	**RESOURCE USE (INCLUDING USE OF FOSSIL FUELS)** Vehicle, plant, and equipment usage during our work activities – demolition, asbestos removal, transportation of personnel and office personnel works.	5	5	25	Generation of additional waste streams; Reduction of fossil fuels – either directly by use in vehicles, plant, and equipment or indirectly by use of electricity and water.	Re-use/recycling of materials; Vehicles, plant, and equipment inspected, serviced, and maintained to ensure optimum fuel performance; Vehicle, plant, and equipment turned off when not in use;	5	2	10	M

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 09 (cont.)	**RESOURCE USE (INCLUDING USE OF FOSSIL FUELS)** Vehicle, plant, and equipment usage during our work activities – demolition, asbestos removal, transportation of personnel and office personnel works.	5	5	25	Generation of additional waste streams; Reduction of fossil fuels – either directly by use in vehicles, plant, and equipment or indirectly by use of electricity and water.	Switch It Off Schemes; Non-concussive taps; Water boilers instead of kettles; Awareness training; Fuel and energy use monitoring and reporting.	5	2	10	M
EN 10	**VISUAL** Demolition Site (including welfare facility)	3	5	15	Negative impact on local environment; Complaints by public; Breach of statutory requirements; Failure to meet requirements laid out by Local Authority/S81 or planning conditions.	Careful use of lighting; Clean hoardings; Good site housekeeping; Boundary fencing litter sweeps; Considerate constructors code of practice; Contact numbers clearly displayed; Communication with neighbours and others who may be affected by our work activities; Monitoring and site inspections.	3	1	3	L
EN 11	**END OF LIFE PLANT/EQUIPMENT/VEHICLES** Disposal of surplus plant/equipment/vehicles	4	4	16	If breaking up potential waste leading to: Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Breach of End-of-Life-Vehicle Regulations; Legal Action by statutory authorities.	Dispose of plant/equipment/vehicles by onward selling for reuse, either via reputable Auction House or as part-exchange for replacement plant/equipment/vehicles	4	2	8	M

IMPORTANT NOTE:
IN ADDITION TO THE CONTROL MEASURES DETAILED WITHIN THIS ENVIRONMENTAL RISK ASSESSMENT ALL WORK ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH THE RELATED SAFETY AND HEALTH METHOD STATEMENTS AND RISK ASSESSMENTS [RAMS]

ENVIRONMENTAL ASPECTS & IMPACTS + ENVIRONMENTAL RISK ASSESSMENTS - Office

KEY					
ENVIRONMENTAL RISK RATING (RR = Severity [S] x Frequency [L])					
SEVERITY OF CONSEQUENCE (S)	**(1) Negligible** Minimal loss/impact to the environment	**(2) Marginal** Minor loss/impact to the environment	**(3)Serious** Moderate loss/short term damage to the environment	**(4) Critical** Significant Loss/medium term damage to the environment	**(5) Catastrophic** Catastrophic loss/long term damage to the environment
LIKELIHOOD OF OCCURRENCE (L)	**(1) Improbable** Annually, Very unlikely/will never occur	**(2) Remote** <3 months, Unlikely but possible	**(3) Occasional** Monthly,	**(4) Probable** Weekly, Several times	**(5) Frequent** Daily, Many occasions

SIGNIFICANCE RATING [SR]	
Significance Rating	**Remedial Action**
LOW (1- 8) [L]	No further mitigation required – periodic monitoring
MEDIUM (9 – 18) [M]	Acceptable – Ongoing monitoring/control and regular review
HIGH (19 – 25) [H]	Not acceptable – further mitigation required

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			
		S	L	IRR			S	L	RRR	SR
EN 01	**USE OF ENERGY/WATER** Office activities	5	5	25	Resource depletion of fossil fuels – either directly by use in vehicles, plant and equipment or indirectly by use of electricity, gas and water; Global warming.	Ensure all equipment is designed to minimise consumption; Switch off all electrical equipment when not in use; Do not leave electrical equipment on standby; Heating turned off when building not in use; Monitor fuel and energy and review and report findings.	**5**	**2**	**10**	**M**

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 02	**USE OF FOSSIL FUELS** Use of vehicles to attend meetings, visit Sites + heating and lighting within the office	5	5	25	Resource depletion of fossil fuels directly by use in vehicles or indirectly by use of electricity, gas and water; Global warming.	Vehicles inspected, serviced and maintained to ensure optimum fuel performance; Use hybrid vehicles; Use public transport where practicable; Car share where possible/practicable; Implement control measures to improve consumption; Turn off lights and other electrical appliances; Do not waste water.	5	2	10	M
EN 03	**USE OF PAPER** Printing/generation of documents Packaging materials	4	5	20	Resource depletion of fossil fuels used for manufacture and transport; Generation of waste.	Minimise printing of documents, e-mails, etc.- where practicable keep electronic copy; Print double sided; Use recycled paper; Use scrap paper for notes; Recycle all waste paper/card where possible/practicable.	4	2	8	L
EN 04	**WASTE** Disposal of non-hazardous and hazardous waste arising from office activities – this includes waste paper/card, substances (toner cartridges, cleaning fluids, etc.) and electrical equipment.	5	4	20	Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Legal Action by statutory authorities.	Maximise re-use/recycling; All waste to be removed as required by statutory requirements; Duty of Care Waste Transfer Notes/Hazardous Waste Consignment Notes to accompany all waste leaving the Office; Waste removed by licensed carriers to suitable designated facility.	5	2	10	M
EN 05	**POLLUTION** Arising from emergencies, including fire and bursts/leakages.	4	3	12	Contaminated land; Water pollution; Air pollution; Impact on neighbours; Use of water/foam to fight fires.	Fire protection equipment suitably located; Fire and security equipment and alarms to be serviced and maintained; Clear access and egress routes to be identified; Documented emergency procedures – all personnel given appropriate instructions identifying their individual responsibilities.	4	1	4	L

ENVIRONMENTAL ASPECTS & IMPACTS + ENVIRONMENTAL RISK ASSESSMENTS – Servicing & Maintenance

KEY					
ENVIRONMENTAL RISK RATING (RR = Severity [S] x Frequency [L])					
SEVERITY OF CONSEQUENCE (S)	**(1) Negligible** Minimal loss/impact to the environment	**(2) Marginal** Minor loss/impact to the environment	**(3)Serious** Moderate loss/short term damage to the environment	**(4) Critical** Significant Loss/medium term damage to the	**(5) Catastrophic** Catastrophic loss/long term damage to the environment
LIKELIHOOD OF OCCURRENCE (L)	**(1) Improbable** Annually, Very unlikely/will never occur	**(2) Remote** <3 months, Unlikely but possible	**(3) Occasional** Monthly,	**(4) Probable** Weekly, Several times	**(5) Frequent** Daily, Many occasions

SIGNIFICANCE RATING [SR]	
Significance Rating [SR]	**Remedial Action**
LOW (1- 8) [L]	No further mitigation required – periodic monitoring
MEDIUM (9 – 18) [M]	Acceptable – Ongoing monitoring/control and periodic review
HIGH (19 – 25) [H]	Not acceptable – further mitigation required

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RR	
EN 01A	**DUST/PARTICULATE EMISSIONS** Yard activities	4	5	20	Ill health to workers and others affected by our activities; Damage to wildlife and ecology; Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; Damage or disruption to property; Disruption on roads;	Damping down as appropriate – using mobile bowsers, dust bosses, etc.; Segregation – fencing, mesh, etc.; Personal Protective Equipment (PPE) Monitoring and visual inspections;	**4**	**2**	**8**	**L**

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IR			S	L	RR	
EN 01B	**DUST/PARTICULATE EMISSIONS** Vehicle movements – on and off site	4	5	20	Ill health to workers and others affected by our activities; Damage to wildlife and ecology; Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; Damage or disruption to property; Disruption on roads;	Damping down – mobile bowsers; Wheel wash; Covered vehicles; Road Sweepers; Speed limitations; Monitoring and visual inspections.	4	2	8	L
EN 02A	**NOISE** Work activities - use of plant/equipment, compressors and generators.	4	5	20	Ill health to workers and others affected by our activities; Complaints by residents; Legal Action by Statutory Authorities; Disruption and disturbance to wildlife; Failure to meet requirements laid out by Local Authority/S81.	Hearing protection zones; PPE; Plant/equipment to be effectively silenced, serviced and maintained; Compressors and generators to be of super silenced type; Strict Control of working hours to be maintained ; No out of hours working; Noise monitoring.	4	3	12	M
EN 02B	**NOISE** Deliveries/collections.	4	5	20		No parking/queuing outside Site; Scheduled deliveries; Consideration of times of deliveries – none within school start/finishing times; No out of hours deliveries.	4	2	8	L
EN 02C	**NOISE** Human - Site personnel/work activities + use of welfare facilities.	3	5	15		Communication radio volumes to be maintained at a low level; No radios; No horseplay or shouting/swearing, especially near Site perimeter; All personnel to behave in a sensible manner; Behavioral tool box talks; Monitoring and supervision.	3	2	6	L

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 03A	**WASTE - CONTROLLED** Work activities.	4	4	16	Ill health to workers and others affected by our activities; Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Breach of asbestos legislation; Legal Action by statutory authorities.	Duty of Care Waste Transfer Notes to accompany all waste leaving Site; Environmental Monitoring ; Environmental awareness training; Waste removed by licensed carriers to suitable designated facility.	4	2	8	L
EN 03B	**WASTE - HAZARDOUS** Work activities - disposal of hazardous chemicals/ substances.	5	4	20	Ill health to workers and others affected by our activities; Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Breach of asbestos legislation; Legal Action by statutory authorities.	Hazardous Waste Consignment Notes to accompany all waste leaving Site; Environmental Monitoring ; Environmental awareness training. Waste removed by licensed carriers to suitable designated facility.	5	2	10	M
EN 04	**POLLUTION/LAND CONTAMINATION** Demolition activities; Asbestos removal activities; Site welfare.	5	4	20	Ill health to workers and others affected by our activities; Damage/destruction to wildlife and ecology, both short and long term; Damage to visual amenities; Legal Action by Statutory Authorities; Remediation costs.	Maintain good standards of housekeeping on Site; Any hazardous fluids, including fuel and oils, to be suitably stored either in bunded containers or on bunded trays; Spill kits to be available adjacent to any areas of potential spills; Minimise refuelling locations for plant on Site; Documented emergency procedures; Training, including use of spill kits + reporting spills and emergency procedures; Environmental Monitoring.	5	2	10	M
EN 05	**ECOLOGY** Work activities.	5	4	20	Loss, destruction, harm or disturbance of wildlife or habitat; Reduction in endangered species; Spreading of invasive plants; Legal Action by Statutory Authorities.	Monitoring; Training/Toolbox Talks; Secure fencing to protect/segregate sensitive areas; Implementation of appropriate measures	5	2	10	M

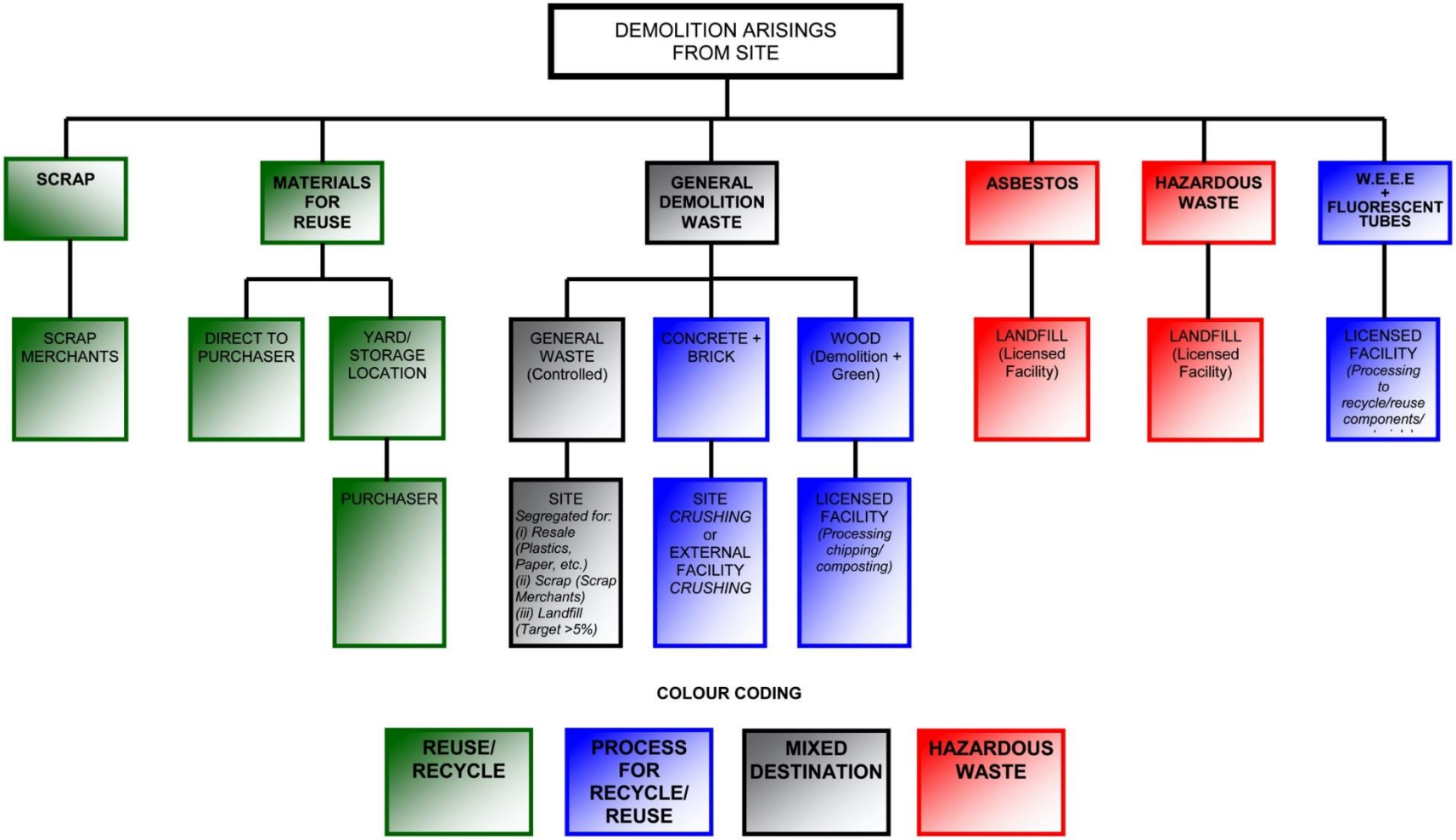
REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IRR			S	L	RRR	
EN 06	**WATER DISCHARGES/USAGE** Work activities:	5	4	20	Contamination of groundwater/surface waters/rivers; Damage/destruction to wildlife and ecology, both short and long term; Potential harm to humans; Failure to meet consents; Legal Action by Statutory Authorities.	Ensure hoses/pipes and valves do not leak; Control and monitor use of water; Comply with appropriate licences/ consents; Minimise run off; Training; Environmental Monitoring;	5	2	10	M
EN 07	**LIGHTING** Work activities.	3	5	15	Light pollution; Complaints by residents; Legal Action by Statutory Authorities; Disruption and disturbance to wildlife; Failure to meet requirements laid out by Local Authority/S81 or planning conditions.	Careful consideration of direction of lighting away from residential areas as to minimise disruption to nearby residents; Consideration of wildlife and ecology around the site boundaries; All lighting to be switched off out of working hours; Security lighting to be kept at a minimum.	3	2	6	L
EN 08	**VISUAL** Site (including offices)	3	5	15	Negative impact on local environment; Complaints by public; Breach of statutory requirements; Failure to meet requirements laid out by Local Authority/S81 or planning conditions.	Careful use of lighting; Good site housekeeping; Boundary fencing litter sweeps; Contact numbers clearly displayed; Communication with neighbours and others who may be affected by our activities; Monitoring and site inspections.	3	1	3	L
EN 09	**RESOURCE USE (INCLUDING USE OF FOSSIL FUELS)** Vehicle, plant and equipment usage during our work activities – demolition, asbestos removal, transportation of personnel and office personnel works.	5	5	25	Generation of additional waste streams; Reduction of fossil fuels – either directly by use in vehicles, plant and equipment or indirectly by use of electricity and water.	Re-use/recycling of materials; Vehicles, plant and equipment inspected, serviced and maintained to ensure optimum fuel performance; Vehicle, plant and equipment turned off when not in use; Switch It Off Schemes; Non-concussive taps; Water boilers instead of kettles; Awareness training; Fuel and energy use monitoring and reporting.	5	2	10	M

REF	ENVIRONMENTAL ASPECT + ACTIVITY	INITIAL RISK RATING			POTENTIAL ENVIRONMENTAL IMPACT + RISKS	CONTROL MEASURES	RESIDUAL RISK RATING			SR
		S	L	IR			S	L	RRR	
EN 10	**SPILLS** Fuelling plant/equipment Servicing and maintenance activities Burst hoses Delivery of fuel Vandalism by trespassers Overspill of bund Demolition of redundant tanks/vessels/ pipework releasing material residues.	5	4	20	Contamination of water courses and surrounding environment; Legal Action by Statutory Authorities; Complaints from public; ***Major spills (additional to above)*** Damage or disruption to property; Disruption on roads.	Spill kits available at designated locations around Site, particularly high-risk areas (particularly in refuelling areas, adjacent to storage tanks); All fuel tanks to be bunded and locked when not in use; Where Site conditions allow, segregated refuelling area for plant/ equipment; Ensure proper decontamination of redundant tanks/vessels/ pipework and check before demolition activities commence; Maintain good Site security.	**5**	**2**	**10**	**M**
EN 11	**END OF PLANT/EQUIPMENT/VEHICLES LIFE** Disposal of surplus plant/equipment/vehicles	4	4	16	If breaking up potential waste leading to: Contaminated land; Water pollution; Air pollution; Failure to meet duty of care; Breach of waste legislation; Breach of End-of-Life-Vehicle Regulations; Legal Action by statutory authorities.	Dispose of plant/equipment/vehicles by onward selling for reuse, either via reputable Auction House or as part-exchange for replacement plant/equipment/vehicles	**4**	**2**	**8**	**M**

IMPORTANT NOTE:
IN ADDITION TO THE CONTROL MEASURES DETAILED WITHIN THIS ENVIRONMENTAL RISK ASSESSMENT ALL WORK ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH THE RELATED SAFETY AND HEALTH METHOD STATEMENTS AND RISK ASSESSMENTS [RAMS]

Appendix C - Waste Streams

C1



Appendix D – Complaints Record

D.1

COMPLAINT RECORD

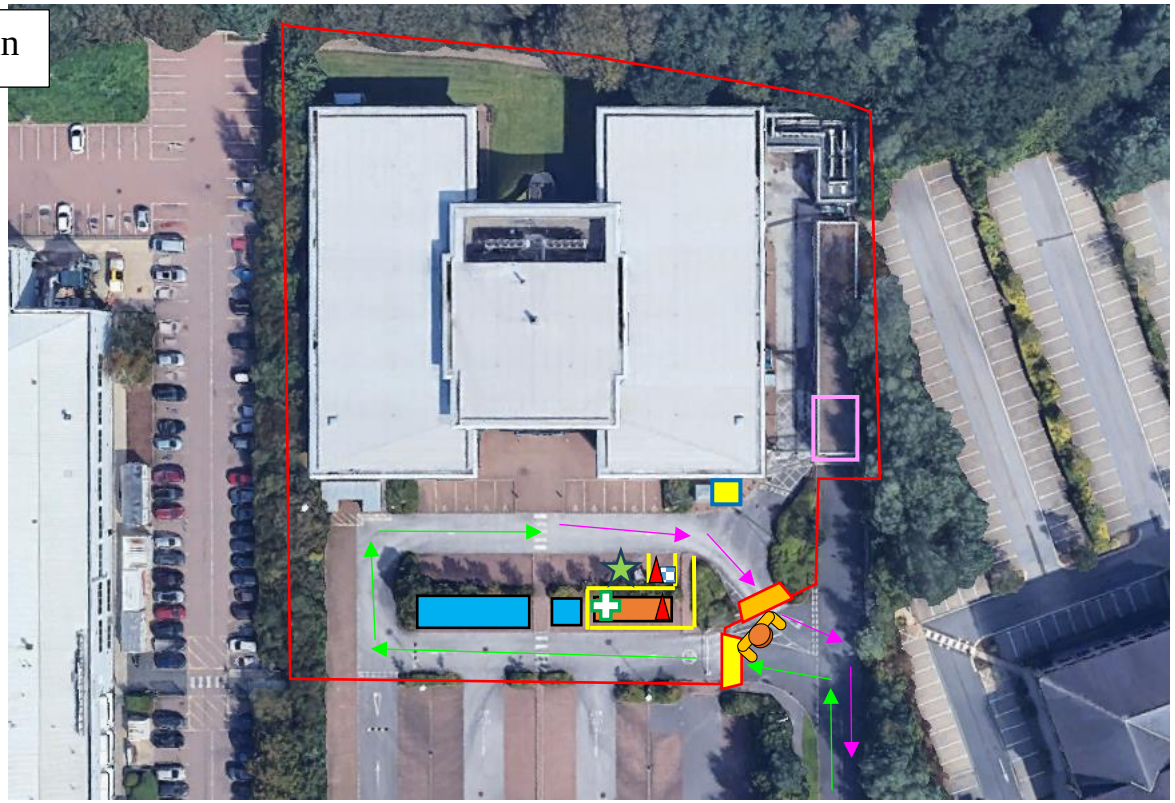
Part 1: Detail & Nature of Complaint			
Client:		Date received:	
Complainants Name:		Complaint received by:	
(Copies of Client correspondence to be attached)			
Details of complaint:			
Resulting from (tick as applicable):			
Safety, Health or Environmental incident		Poor/inadequate documentation	
Faulty plant/equipment		Company personnel performance	
Documentation Issues		Failure to adhere to Client requirements	
TO BE PASSED TO THE MANAGING DIRECTOR ON COMPLETION OF PART 1			
Part 2: Cause of Complaint + Action (Corrective and Preventive)			
Determined cause of complaint (after investigation):			
Actions taken (corrective and preventive)			
Signed:		Date:	
COPIES TO:	Quality Co-ordinator		Client (if appropriate)
	Managing Director		File

Appendix E – Traffic Management Plan	
E.1	See Separate document

Appendix F – Site Plan & Relevant Drawings

F.1

Proposed Site Plan



	Site Perimeter		Site Welfare		Smoking / Vaping		First Aid		Assembly Point		Banksman
	Access Gates		Parking		Fire Point		Segregation Fencing		Access / Egress		
	National Grid Property – to be protected from the demolition and 24/7 access to be maintained.				Section of building to be retained						