

Hoyland West – Parkside Sports Facilities
Construction Environmental Management Plan

Title Construction Management Framework Plan

Client

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Hoyland West – Parkside Sports Facilities Construction Environmental Management Plan

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1.0 Purpose of the Construction Environmental Management Plan (CEMP)

This Construction Environmental Management Plan (CEMP) sets out the overarching systems and controls that will be adopted during the construction of the Parkside Sports Facilities to minimise any adverse environmental impacts in accordance with Construction Good Practice. The CEMP provides the framework which all construction activities will work too, with individual activities having their own specific Risk Assessment and Method Statement.

Obligations, Compliance and Enforcement

The principles set out by the CEMP and the arrangements established through the CEMP, will be incorporated within all construction contracts arising from the development of the scheme and all contractors, their subcontractors and supplier will be required to comply with the overarching principles and details contained in this CEMP.

Any non-conformance or infringement of the CEMP shall be reported to the Project Manager with 24 hours and proposals for rectifying the non-conformance shall be submitted to the Project Manager within 7 days. The management and reporting of non-conformances will be the responsibility of the Environmental Manager.

The contractor shall submit proposals to the Project Manager, before works commence, for the internal and external auditing of compliance with the CEMP. Copies of all audit reports are to be provided to the Project Manager within 7 days of the audit. Furthermore, the Project Manager will undertake audits as and when he sees fit.

Failure to rectify a non-conformance within an agreed timescale may result in relevant works being suspended until the Project Manager is satisfied that the non-conformance has been corrected, or in extreme cases termination of the contract.

The CEMP will remain valid throughout the construction phase of the scheme.

The location of the proposed scheme is provided at Appendix 01.

2.0 Description of the Works

The proposed work consists of the following:

- Construction of a vehicle access into Parkside Sport Facilities
- Bulk earthworks to provide development plateau for future football pitches
- Laying out an Archery Track
- Construction of a temporary car park
- Provision of a temporary portacabin for changing facilities

3.0 General Site Management

Roles and Responsibilities

The site wide coordination and implantation of the principles established in this CEMP, will be the responsibility of the Developer's Project Manager with the support of the development's Environmental Consultant.

As each section of work comes forward an Environmental Manager will be appointed for that section, generally this will be a contractor appointment but in some circumstances the Project Manager may undertake this role or appoint others. The Environmental Manager shall ensure that the principles of the CEMP shall be fully integrated into all site procedures, processes and activities, and ensure that appropriate environmental management systems, under BS 14000 or similar, are put in place

The key contacts are:

- Developer – Newland Developments – Ken Brown
- Project Manager – HA Goddard & Sons – Peter Goddard
- Ecological Consultant – fpcr
- Landscape Consultant – fpcr
- Engineering Consultant – RPS – Antony Evans
- Principal Contractor – Winvic Construction – Mark Skelton
- Principal Designer – tbc
- Site Manager – Winvic Construction
- Environmental Manager – Winvic Construction – Ian Goodhead

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- Health and Safety Manager – Winvic Construction – Ian Goodhead

The key firms and individuals may change as the scheme develops.

Communications

The effective implementation of the CEMP is intrinsically linked to good communications between all the project stakeholders and the public.

To promote effective communications during the contract the following will be implemented at the commencement of each section:

- The Project Manager will brief the contractor's senior management team on the philosophy and content of the CEMP, which will generally include the Director responsible for the scheme.
- The Ecological Consultant shall brief the contractor's senior management team on all ecological aspects of the scheme.
- The contractor's Director shall be responsible for developing a site-specific induction for all those working or visiting his site. The scope of the induction will be agreed in advance with the Project Manager.

The contractor will provide a programme to achieve continuous improvement of environmental matters during the contract. The Developer wishes to see positive training on environmental matters on an on-going basis.

The contractor shall develop an appropriate strategy for communicating with the public both before commencement and during the contract in accordance with the Stakeholder Communication Protocol. This will include newsletters being distributed to the residents and the use of Community notice boards on the hoarding.

4.0 Construction Access & Traffic Management

4.1 Construction Traffic

Access to Parkside Sports Facilities will be strictly controlled. All vehicles to Parkside Sports Facilities will be instructed to leave the M1 at Junction 36 and enter and leave the site from the proposed new access off of Sheffield Road. Directional signage will be erected from the M1.

Barred Routes

Access to the site will not be permitted from the south up Sheffield Road.

Monitoring

All workers and suppliers will be advised on a regular basis that they should not use any of the roads not designated to travel to and from the site. The movement of HGV's will additionally be visually monitored on an occasional basis by the site gang person.

Enforcement

LGV enforcement will be undertaken on a 'three strikes and you're out' principle. On the first breach, transgressors will be warned in writing that they have used a "Barred Route" without authorisation. On the second breach a mandatory meeting with the Travel Plan Co-ordinator will be arranged to enforce the issue. On the third breach the driver's permission to enter the site will be withdrawn for three months. After this, should the driver concerned transgress further on any subsequent occasion then permission to enter the site will be permanently withdrawn.

HGV movements will be covered by the same enforcement principles.

Access to and departure from Parkside Sports Facilities for construction delivery vehicles shall not be permitted before 08.00 hours and after 18.00 hours.

4.2 Traffic Management

All works on the Public Highway shall be carried out in accordance with Chapter 8 and the traffic management arrangements agreed with the Local Highway Authority and the Police.

Traffic management will be required for the construction of the proposed access off Sheffield Road.

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The development shall be carried out in such a manner to ensure that emergency vehicles visiting the development, adjacent properties or passing through or adjacent to the development are always unhindered and provided with free flow passage as far as is practicable.

5.0 Working Hours

Construction work within the development site will be confined to the following:

08:00 -18:00 hours Monday to Friday

09:00 -13:00 hours Saturday

No works will be undertaken on Sundays or public holidays, save in exceptional circumstances only and with prior notification to the LPA.

Any changes to the above working hours will also be agreed with the local Environmental Health Officer.

6.0 Pollution and Contamination

Pollution and contamination can be pre-existing or caused by construction activities.

The contractor must make himself fully aware of all the ground investigation reports and geotechnical design reports relating to the site.

The contractor shall plan and execute their work to ensure that hazardous or polluting substances do not cause harm to surface water systems, landscaping and associated ecology.

Additional settlement and control ponds will be provided as necessary during the work to prevent pollution entering the existing water courses.

The scheme requires earthworks which will inevitably increase the risk of pollution to the surface water system. The contractor shall adopt water pollution prevention procedures in line with good practice. In preparing the procedures the contractor shall consider the following as a minimum:

- Published guidance from the Environment Agency
- Control of water pollution from construction site and other documents published by CIRIA
- The site-specific requirements of the EA
- Arrangements for monitoring water bodies to ensure and demonstrate water quality

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- Fuelling of plant and equipment
- Maintenance of plant and equipment
- Storage of hazardous materials
- Control of concrete truck washout arrangements
- Flood warnings
- The landscape and ecological environment

The contractor will be required to include water pollution prevention in all inductions and shall arrange update toolbox talks at appropriate intervals during the contract.

All incidents involving water pollution shall be immediately reported to the Project Manager.

7.0 Measures for Controlling Noise and Vibration

7.1 Noise

7.1.1 Responsibilities

The Developer will appoint a Noise Consultant to:

- Oversee compliance with this Construction Environmental Management Plan.
- To provide advice to the contractor.
- To assist in the interpretation of monitoring data.
- To advise on amendments to Method Statements and working plans based on observed data.
- To coordinate Noise issues between different contractors engaged on the development.
- To liaise with adjacent projects that may have an impact of Noise on sensitive receptors.

The appointed contractor shall:

- Appoint a Noise Manager (site based).
- Comply with this Construction Environmental Management Plan.
- Erect solid 2.5m high timber hoarding along the northern and eastern boarding of Parkside Sports Facilities for the duration of the earthwork's operation.
- Install monitoring equipment in accordance with the Dust Sensitive Zones and Monitoring positions (Dust and Noise). As the sensitive receptors are the houses around Parkside

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Sports Facilities, a monitoring station will be established on the northern boundary of Parkside Sports Facilities. An example of the equipment specification is in Appendix 02.

- Review monitoring data to ensure the mitigation measures are being effective,
- Implement additional measures if monitoring suggests it to be necessary,
- Maintain a log of all noise data,
- Maintain a log of Noise Complaints including details as to how the complaint was closed out and signed off by the Developers Noise Consultant.
- Provide a Noise Report at each monthly progress meeting.

7.1.2 Monitoring

Noise monitoring will be provided as noted above, on the northern boundary of Parkside Sports Facilities.

The monitoring equipment shall be *i-dB* Type 2 noise monitor or similar with continuous monitoring via *AirQWeb* software.

Acceptable levels shall be in accordance with BS 5228:2009 + A1:2014.

The monitoring equipment shall send notification if acceptable levels have been exceeded.

7.1.3 General Mitigation Measures

The Contractor will implement measures to minimise the disturbance caused by construction traffic and activities.

When planning all activities contractors should predict noise levels and review the likely impacts and what can be done to mitigate any adverse impacts.

If construction activities are likely to cause a potential nuisance at sensitive receptors consideration should be given to noise measurements before and during construction.

The guidance given in BS 5228: 2009 “Code of Practice for Noise and Vibration Control on Construction and Open Sites” relating to “Methods of Work” will be followed and will be incorporated within the method statement which will form the basis for the implementation of construction works. As required by BS 5228, a survey of background noise will be undertaken prior to the works commencing, and acceptable noise levels established in accordance with Table E.1 of BS 5228: 2009. Any material breach of acceptable noise levels notified to the Environmental Manager will be addressed immediately to ensure no recurrence.

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In planning their work, the contractor shall consider the following as a minimum:

- Timing of an operation in the programme
- Timing the activity during the day
- Duration of tasks
- Selection of Plant and equipment
- Maintenance of plant and equipment
- Closing equipment during period of non-use

Noise shall be considered in all method statements and risk assessment.

7.1.4 Additional Mitigation Measures

Should monitoring indicate that the measures in Section 7.1.3 are not achieving the required levels then additional measures shall be considered and implemented, these shall include:

- Working Hours
- Task Durations,
- Additional Screening,
- Relocation (if possible)
- Alternative methods and plant.

7.2 Vibration

The Contractor will implement measures to minimise the disturbance caused by construction traffic and activities.

When planning all activities, the contractor will consider vibration and review the likely impacts and what can be done to mitigate any adverse impacts.

If appropriate, a Vibration Impact Assessment should be carried out in accordance with BS5228.

In planning their work contractors should consider the following as a minimum:

- Selection of plant and equipment
- Methods of working
- Duration of activities

- Working hours

8.0 Measures for Controlling Emission of Dust

8.1 Risk of Dust Emissions

The risk of dust emissions causing loss of amenity and/or health or ecology is related to:

- The activities being undertaken (earthworks, number of vehicles and plant etc.)
- The duration of these activities,
- The meteorological conditions (wind speed, direction and rainfall),
- The proximity of receptors
- The adequacy of mitigation measures, and
- The sensitivity of the receptors to dust.

8.2 Dust impacts considered in the plan:

- Annoyance due to dust soiling,
- The risk of health effects due to an increase in exposure to PM10, and
- Harm to ecological receptors.

8.3 Screening Criteria for potential receptors.

Human receptors, being locations where people spend time and where property may be impacted by dust, within:

- 350m of the boundary of the site, or

Ecological receptors, being habitats that might be sensitive to dust, within

- 50m of the boundary of the site, or
- 50m of the route(s) used by construction vehicles on the public highway, up to 500m from the site entrance.

Areas that are considered within the Dust Sensitive Zones are the houses around the northern and eastern perimeter of Parkside Sports Facilities. The western boundary with Hoyland West is not considered sensitive.

Responsibilities

The Developer will appoint an Air Quality Consultant to:

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- Oversee compliance with the Dust Management Plan.
- To provide advice to the contractor,
- To assist in the interpretation of monitoring data, and
- To advise on amendments to the Dust Monitoring Plan based on observed data.
- To coordinate Air Quality issues between different contractors engaged on the development,
- To liaise with adjacent projects that may have an impact on Air Quality and sensitive receptors

The appointed contractor shall:

- Appoint an Air Quality Manager (site based),
- Comply with the Dust Management Plan,
- Install monitoring equipment in accordance with the Dust Management Plan,
- Review monitoring data to ensure the mitigation measures are being effective,
- Maintain a log of all air quality data,
- Maintain a log of Air Quality Complaints including details as to how the complaint was closed out and signed off by the Developers Air Quality Consultant.
- Provide an Air Quality Report at each monthly progress meeting.
- Obtain the agreement of the Air Quality Manager to Method Statements and Risk Assessments for all works within Dust Sensitive Areas

Monitoring Measures.

8.3.1 Wind Speed and Direction

A static wind speed monitor shall be provided at the Site Compound.

A handheld wind speed monitor shall always be available on-site.

A record of wind speed and direction shall be recorded twice a day. The contractor, in conjunction with the Air Quality Consultant, shall correlate wind speed, wind direction, PM10 readings and activities. The results of the correlation, which shall be continually refined, shall be used to identify days when the Site Dust Management Status is likely to be Amber or Red, see section 8.3.4.

8.3.2 PM10 at designated locations

Air Quality monitoring equipment shall be installed at the northern boundary of Parkside Sports Facilities.

The equipment shall be similar to a Topas or Osiris manufactured by Turnkey Instruments Ltd. An

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example of the equipment specification is in Appendix 02.

The instrumentation shall be capable of sending alerts when readings PM₁₀ exceed 250µg/m³ when averaged over a 15-minute period.

A handheld detector, similar to a Dustmate manufactured by Turnkey Instruments Ltd, shall always be available on site .

A copy of the software necessary to analyse the output from the monitoring equipment shall be available on-site. The format of output reports shall be agreed with the Air Quality Consultant and reported at each Progress Meeting.

8.3.3 Visual Inspections

At the agreed Air Quality Monitoring location, a flat smooth surface shall be provided (500mm x 500mm) to allow the Air Quality Manager to visually inspect the level of dust deposition. Albeit a subjective assessment this will provide evidence of dust risk. The results of each inspection shall be recorded.

The Air Quality Manager shall also observe activities twice a day to assess dust risk and the results of each assessment shall be recorded.

8.3.4 Site Dust Management Status

A simple traffic light system shall be adopted for all works within Dust Sensitive Areas:

Green – General Mitigation Measure to apply

Amber – Additional Mitigation Measure shall apply

Red – No high-risk activities shall take place in a Dust Sensitive Area.

The Air Quality Manager shall assess the Site Dust Management Status twice a day and advise the site team management of the status. The site team shall then ensure that the appropriate measure is adopted.

8.3.5 Site Action Level

The Air Quality Manager shall increase the Dust Management Status to Amber of receipt of a warning that the PM₁₀ reading have exceeded 250µg/m³ when averaged over a 15-minute period.

General Mitigation Measures

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- Haul roads should not be used in Dust Sensitive Areas whenever possible,
- Haul roads in Dust Sensitive Areas shall be constructed with a surface that will reduce the risk of dust generation and thereafter maintained in an appropriate manner.
- A site speed limited of 20km/hr shall always apply
- Materials should not be stockpiled in Dust Sensitive Areas whenever possible.
- Processing areas should not be established in Dust Sensitive Areas,
- No burning on site shall be permitted,
- Soil stockpiles to be in place between April to October shall be profiled and seeded as soon as possible after completion,
- The final surface of permanent landscaped areas shall be seeded as soon after completion as conditions allow.
- Plant and equipment shall be selected to minimise the generation of dust,
- Methods of contractions shall be adopted to minimise dust generation whenever possible.

Additional Mitigation Measures

- All haul roads shall be damped down,
- The site speed limited shall be reduced to 10km/hr,
- Whenever possible works in Dust Sensitive Areas that could give rise to dust should be stopped or minimised.
- Dust suppression measure shall be used on all crushing/screening plant and equipment.

Contractors will plan their activities to reduce the level of risk and mitigate any residual impacts.

Generally, the most effective method of dust control is damping using a fine spray. The contractor will fully investigate sources of water and where possible use recycled water. Potable water should not be used.

In planning his activities, contractors should consider the following as a minimum:

- Damping down arrangements
- Sources of water for damping down
- Location of haul roads and their surfaces
- Stabilisation of temporary haul roads.

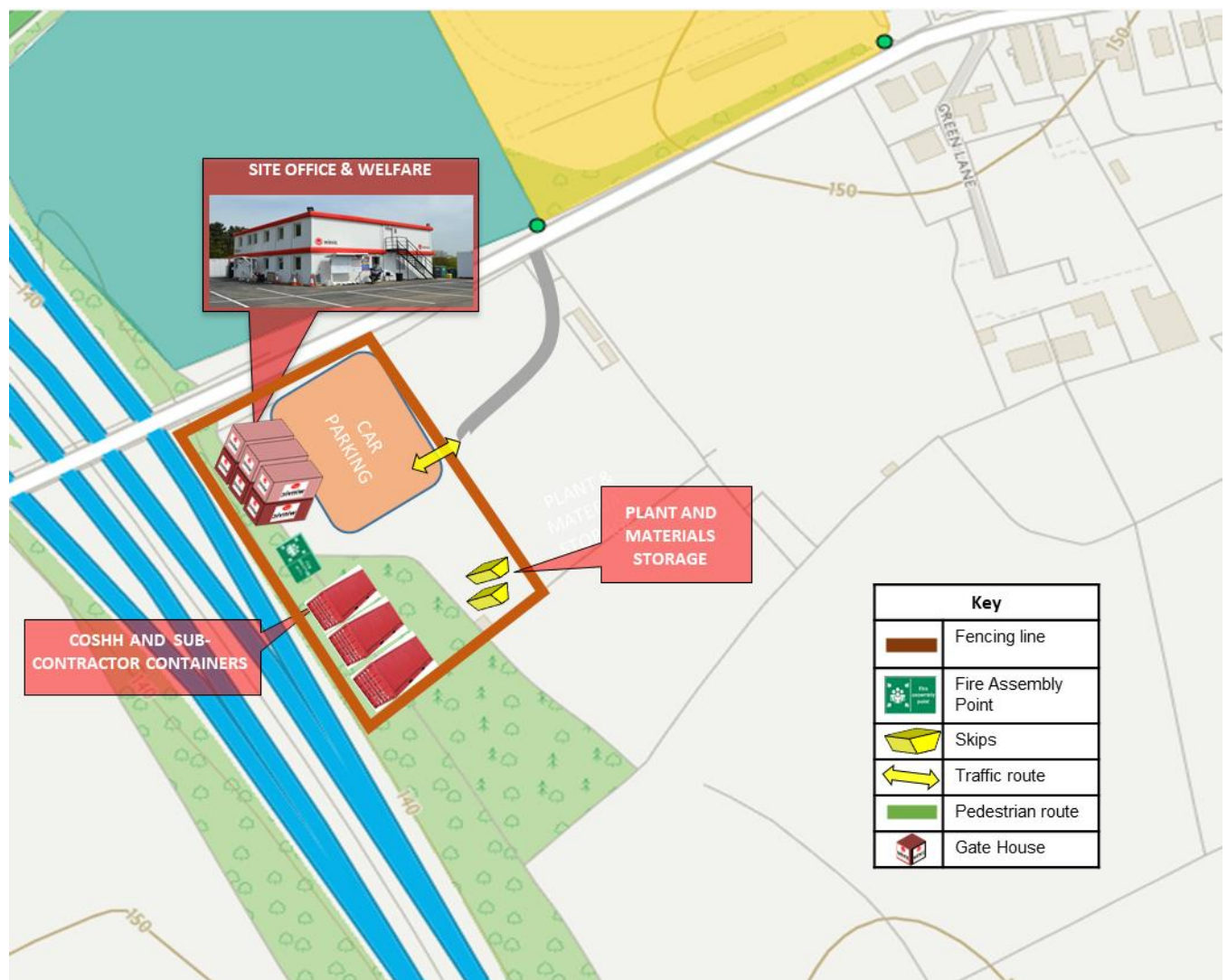
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- Sweeping arrangements of hard surfaces
- Site speed limits
- Selection of plant and equipment
- Maintenance of plant and equipment
- Covering of payloads while in transit
- Location and surface treatment of stockpiles
- Burning will not be permitted on site
- Prevailing wind direction
- Programme and seasonal timing

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9.0 Contractor’s Facilities, Compound, Offices, Fencing, Parking and Storage

It is proposed to utilise the Site Compound facilities that have been established for the Infrastructure work to construct Hoyland West. This is situated south of Tankersley lane. The access to the site compound will be controlled by a gate person. An additional workforce welfare provision will be set up on the Parkside Sports Facilities site. This will consist of one temporary portacabin containing toilets and a safe place for welfare breaks.



The site compound will be 75m x 75m, and will include the site offices, car parking and material storage. The perimeter of the site compound will be secured with 1.8m high chain link fencing.

Within the site compound designated walkways will be established to segregate the pedestrians from vehicles.

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The site office will be double stacked temporary accommodation, with the first floor containing all the welfare facilities (canteen, toilets and drying rooms) and the open plan office on the second floor.

The car parking area will be in the northern half of the site compound with a bituminous surfacing and capacity to park 75 vehicles.

The southern half of the site compound will be used to storage materials. The maximum height of material storage will be two pallets or 2m, whichever is lower. Bulk loose materials (aggregates, ready mixed concrete) will be delivered directly to the point of use.

Materials that are affected by weather conditions will be stored in steel containers stores.

The management of material storage is a key element to minimising waste and to maximise the efficiency of site operations. The gate person will direct the deliveries to the correct location. Deliveries which are stored in the site compound will be off loaded using either a fork-lift or a lorry mounted crane. The bulk loose material will be discharged directly from the delivery vehicle.

When the work is complete the site compound will be removed, and ground will be engineered to become part of the development platform.

10.0 Waste Management

It is inevitable that some waste will be produced during the construction works. Throughout the construction process, all activities will seek to minimise the generation of waste, utilising the waste hierarchy where practicable, to manage waste. The waste hierarchy seeks to reduce waste through elimination, reduction, re-use, recycling through to disposal as the final option. Handling and disposal of waste must be carried out under the 'Duty of Care' Regulations and current legislation.

Waste management procedures shall be developed and will include the following topics:

- Identification of the types of waste that may be generated;
- Implementation of re-use and recycling strategies;
- Implementation of waste minimisation strategies;
- Set up of waste disposal facilities;
- Control and management of the disposal of different types of waste;

- Roles and responsibilities;
- Monitoring, reporting and auditing of waste produced on site.

Earthworks/Spoil

The proposed development will seek to minimise the import and export of material, wherever possible. The re-use of materials around the site, as suitable engineering material or infill material, will be carried out whenever possible.

Reduction

A number of potential options are available to complement construction waste reduction including maximising off-site fabrication, efficient design specification of standardised components/materials, implementing a just-in-time delivery system to minimise the volume of goods/materials stored on site and therefore exposed to inclement weather conditions and other site damage sources. Procedures will include:

Re-Use

Certain materials may have a relatively high level of re-use (e.g. timber, aggregates, brick and blockwork) within the construction stage operations. Such wastes may arise from spoiled materials, and natural waste from construction processes. Procedures will include:

- Separate skips/receptacles will be provided to receive different types of specific waste which can be re-used on site.
- Licensed waste carriers will be required to identify possibilities of local community re-use of waste materials.

Recycling

Certain materials may have a feasible recycling value (e.g. timber, aggregates, plastics, glass, metals). These may arise from similar construction processes as those identified above for re-use.

Procedures will include: -

- Separate marked skips/receptacles will be provided for the depositing of types of waste suitable for efficient recycling; and
- Discussion with licensed waste carriers in respect to the feasibility/efficiency of specific

materials recycling.

Disposal

It is inevitable that certain materials will have to be removed from site for disposal as they have no re-use/recovery value. Procedures to be considered in preparing a Site Waste Management Plan will include:

- All wastes which require removal from site for final disposal will be subject to an effective management control regime ensuring statutory compliance. The key components of this regime are illustrated below:
 - Appointing competent and suitably registered waste carrier(s);
 - Establishing an effective site waste stream strategy (recycling, re-use, disposal);
 - Providing an effective waste skip strategy to suit the waste stream strategy and which differentiates between hazardous, non-hazardous and inert wastes;
 - Should asbestos be encountered all potentially asbestos containing materials will be disposed of by a suitably licensed contractor in accordance with relevant guidance and legislation;
 - Providing adequate information/training to site operatives in respect of the waste stream strategy; and
 - Implementing an effective audit procedure, to audit the waste disposal regime from source to licensed disposal facility(s). This will include reviewing all relevant Waste Management Licences and Waste Transfer Licences of all waste contractors on the project. In addition, a record will be kept of all Waste Transfer Notes to ensure that all waste movements from the site are properly documented. Non-Conformance Reports would be issued to ensure any deficiencies are corrected.

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11.0 Storage of Fuel, Oil and other Chemicals

Indicative locations of Contractor Facilities are shown in Section 9.0.

All fuel, oil and chemicals shall be stored in accordance with the Manufacturer's recommendations and any tanks shall be in accordance with PPG7 (above ground oil storage tanks) and PPG22 dealing with spills.

Mobile bowsers will be used to refuel construct plant. All bowsers have a double skin construction and bund capacity to stored 110% of there total volume. Drip trays will be used beneath all refuelling hoses and no refuelling will take place within 100m of a watercourse or drain.

12.0 Temporary Lighting

Generally, no works are planned to be undertaken in periods of darkness and therefore it is unlikely that task lighting will be required. However, unplanned events can occur for which task lighting may be required for short periods; in this event a method statement shall set out the maximum height of lighting lanterns and the average lux levels.

Temporary lighting will be provided in the site contractor compound for security and safety reasons. All security lighting will be focused to the middle of the site compound and will not face any neighbouring properties or directly into the public highway.

Task lighting shall ensure that there is no upward light.

Lighting will be switched off when not required for safety or security.

13.0 Prevention of Debris on Highways

The measures and provisions set out in Section 9 and 10 of this Plan will go a long way to prevent the deposition of debris on the highway.

The contractor will provide a Wheel Cleaning facility at the exit to the site compound. At all times delivery vehicles will either to driving on tarmac or Type 1 sub-base, therefore this will minimise the risk of tyres becoming dirty. It is anticipated that there will be a low number of delivery vehicle movements, onto and off site during the Infrastructure work.

The Wheel Cleaning equipment will consist of a high-pressure hose mounted onto a portable water bower. In the unlikely event that this is not sufficient and dirt escapes onto Birdwell Roundabout or the crossing point on Tankersley lane, it will be cleaned immediately using a road sweeper.

14.0 Protecting Biodiversity Interests

Landscape

The Landscape Designer will identify existing landscaping or newly planted landscaping that needs to be protected. Protection shall be provided in accordance with BS 5837: 2012 Trees in relation to design, demolition and construction – Recommendations.

Ecology

As no protected species have been found on site, the Contractor hasn't designed mitigation measures. However, if the contractor does find any protected species whilst completing the work, the work will be stopped immediately, and mitigation measures will be designed.

15.0 Temporary Surface Water Management System

The arrangements for the temporary management of surface water shall be set out in a detailed method statement.

The contractor shall prepare and submit to the Project Manager's approval his surface water management plan before any works in a phase commences and the contractor shall thereafter carry out his works in accordance with the approved plan.

Measures shall be adopted in accordance with PPG5, particular Section 2.2b (balancing lagoons) and 2.2c (filtration) and CIRIA Report C532 "Control of water pollution from construction sites".

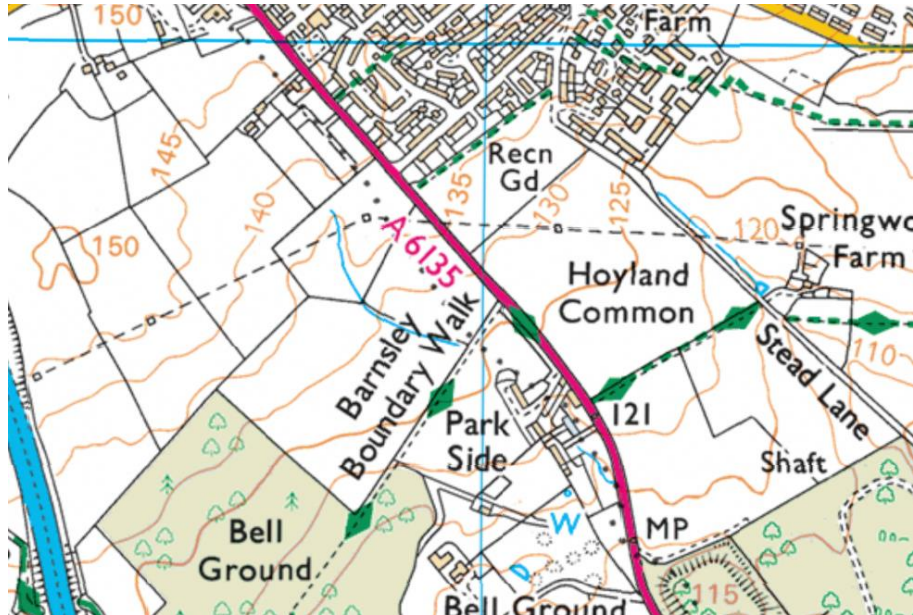
Monitoring points shall be established downstream of any temporary balancing lagoons to monitor water quality so that the effectiveness of the measures can be assessed and improved if necessary. Details of monitoring techniques shall be set out in the detailed method statement.

Testing parameters shall be agreed with the Environment Agency/Local Lead flood Authority ahead of collection of baseline test data.

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16.0 Public Rights of Way

The existing Public Rights of Way (PRoW) are shown below:



The existing PRoW that's runs parallel along the Northern boundary of Parkside Sports Facilities will remain open during the work. It will be separated from the site by the 2.5m high timber hoarding that is being erect around the northern and eastern boundaries of the site.

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Appendix 01 – Masterplan

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Appendix 02 – Noise and Air Quality