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ENVIRONMENTAL METHOD STATEMENT AND SITE ENVIRONMENTAL PLAN

Introduction

GD Harries Limited as a company operate an accredited Environmental Management System to ISO 14001.

All works conducted on this site will be carried out in accordance with the company management system, the company Policy Statement on Environmental Management and the Environmental Handbook contained within the System Manual.

The company recognises the Environmental Benefits of improved environmental performance as: -

Reduced damage to our natural environment

Reduced demand for natural resources

Reduced disturbance to our neighbours

The company also recognises the economic benefits of improved environmental performance and recognises that.

“Preventing pollution is cheaper than curing it”

The site plan that follows is set out under the following headings: -

1. Management

1.1. Dealing with regulatory agencies

1.2. Management responsibilities

1.3. Management of sub-contractors

1.4. Raising awareness.

1.5. Liaising with client and designers

2. Site Set Up

2.1. Management and Site Control

2.2. Public Relations

2.3. Site Security

2.4. Storage of Fuels and Oils

2.5. Managing Materials

2.6. Traffic and Access Routes

2.7. Site Clearance following Completion

3. Environmental Issues

There is a stream bordering the brownfield site, the Red Jacket Pill, so measures will be put in place to prevent silt and other pollutants from entering the stream.

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4. Site Specific Environmental Issues & Risk Assessments

4.1. Management

4.2. Dealing with Regulatory Agencies

The following table sets out the Regulators likely to be involved in the project and their responsibility: -

Regulator	Responsibility
Neath Port Talbot Borough Council	Noise, Air Quality, Traffic, Nuisance, Planning issues
NRW Tel 0300 065 3000	Effluent Discharge, Abstraction Licences. Surface Water Discharge to river. Waste Treatment & Disposal
Health and Safety Executive	Health and Safety Issues

All staff will follow the guidelines listed here to help ensure efficient and effective management of environmental issues.

1. Plan ahead. Try to avoid problems and give regulators advance warning of potential problems.
2. Give regulators the time needed to process any enquiries.
3. Display the relevant emergency number for the regulatory agencies. Include in Construction Stage Health and Safety Plan and put on the site notice board.
4. Ensure that all site personnel know the correct procedures for reporting incidents – they should let the site manager know before contacting the regulatory agencies.
5. Always notify the Environment Agency and the Local Authority of any uncontrolled contaminating spillages. (EA Incident Hotline Tel No 0300 065 3000)

4.3. Management Responsibilities

Management responsibilities for company personnel are set out in the Company's Environmental Management System.

The Project Manager has responsibility for the environmental management of the project.

The Project Manager will delegate certain responsibilities for the day to day management to members of his site team.

These responsibilities will include auditing environmental practice on site, liaising with regulatory authorities and monitoring sub-contractors.

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The Company Health and Safety Manager, Kirsty Fraser will make regular visits to site to check Health and Safety performance and will include Environmental issues in her brief.

Site Engineers and Site Foremen are usually in the best position to put the project environmental plan into practice and as such the project manager will ensure that engineers and foremen understand the environmental obligations and the practical measures needed to comply with them.

4.4. Management of Sub-Contractors

The Project Manager will ensure that all Sub-Contractors understand their obligations towards the environment and meet them.

To achieve this, the Project Manager will ensure the following: -

Sub-contractors are made aware of the approach to environmental management on site before starting work.

Sub-contractors are involved in environmental training toolbox talks sessions and included at environmental induction.

Sub-contractors are made aware of the environmental obligations of the project.

The past record on environmental performance is checked prior to appointment and that proper controls are included in their sub-contracts to ensure conformance with all reasonable requirements with regard to the environment, and encouragement to achieve good environmental performance.

4.5. Raising Awareness

Raising Awareness amongst all staff, operatives and sub-contractors will be achieved by the following means: -

1. All personnel working on site will be required to attend an Environmental Induction (this will be part of the general site induction)
2. A series of Tool Box Talks will be held at regular intervals. The tool box talks will be based on the text included in the Construction Confederation Tool Box Talks Series.

Tool Box Talks 1 – 18

1. Spill Control
2. Water Pollution Prevention
3. Dust & Air Quality
4. Noise & Vibration
5. Water Pollution - Silt

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6. Water Pollution – Cement & Concrete
7. Tree Protection
8. Waste Management – Reduce / Reuse / Recycle
9. Storage of Waste
10. Japanese Knotweed
11. Himalayan Balsam
12. Giant Hogweed
13. Storage & Use of Petrol
14. Material Handling & Housekeeping
15. Archaeology
16. Bentonite
17. Pumping & Over pumping
18. Washing Down Plant & Machinery

4.6. Liaising with Client and Designers

In regular meetings with the client and designers environmental issues affecting the design will be raised and discussed.

Alternative approaches and alterations to the design may be required where environmental improvements can be achieved and these will be discussed and agreed with the client and designers as the works proceed.

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5. SITE SET UP

5.1. Management and Site Control

The Project Manager will have ultimate responsibility to ensure that site personnel understand that environmental issues must be taken seriously. In conjunction with the site foreman this will be achieved through a combination of setting a good example, rewarding good practice and punishing poor practice.

The following will be used as a check list to ensure that the proper site control is being exercised.

Have environmental responsibilities been defined?

Is everyone on site, aware of their responsibilities and liabilities?

Are all environmental standards and obligations clearly defined?

Have the standards been brought to the attention of all concerned?

If training is necessary has a training programme been established (site induction and tool box talks).

Are environmental awareness posters/bulletins displayed? Are warning signs displayed prominently on site? Is the company environmental policy displayed? Is the Company Environmental Management System Manual readily available?

Voluntary Code of Practice, which seeks to: -

- Minimise any disturbance or negative impact (in terms of noise, dust and inconvenience) caused by the construction site to the immediate neighbourhood.
- Eradicate offensive behaviour and language from construction sites.
- Recognise and reward the contractor's commitment to raise standards of site management, safety and environmental awareness beyond statutory duties.

Good Housekeeping

Good housekeeping is an important part of good environmental practices and it helps everyone to maintain a safe and efficient site. The site should be tidy, secure and have clear access routes that are well signposted.

- Segregate and control waste as it is produced and remove waste frequently from the site.
- Keep the site tidy and clean.

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- Ensure that material and plant storage areas are properly managed.
- Keep fencing tidy – repair them and repaint them when necessary, remove any flyposting.
- Frequently brush-clean the wheel-washing facilities.

5.2. Public Relations

GD Harries recognises that in order to complete the project with the minimum of disturbance to neighbours, good public relations is vital.

These arrangements are however based on the principles outlined below: -

- Visit occupants of neighbouring businesses and keep them informed of progress.
- Display a contact board at the site perimeter so that the neighbours and members of the public know who to contact if they have a complaint or a comment to make. Use this board to display information on the phasing and other relevant matters
- When complaints arise deal with them quickly and in accordance with a defined complaints procedure. Create a log of complaints.
- Provide a position so that passers-by can observe activities on site.
- Be able to identify your neighbours and understand their views.

5.3. Site Security

Site security arrangements are set out in a separate method statement. Heras fencing will be provided to prevent access from the perimeter of the site.

These arrangements have been set up as a result of considering the following: -

Site security is an important component of good environmental management. Vandals often cause damage that harms the environment by: -

- Opening taps on tanks containing fuel.
- Tipping out other liquids from drums and containers.
- Smashing/stealing raw materials.
- Playing on plant.
- Spraying graffiti or flyposting on site hoardings.
- Destroying works in progress

Help to reduce vandalism by securing the site, and moving valuable items and those prone to theft from public view. Store these goods in a locked container or storage area.

The following rules and examples of good practice will also be implemented to further improve security.

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- Avoid stacking materials against the site boundary or fence as this may help vandals and thieves to scale it.
- Within the site ensure that materials that are potentially hazardous to the environment are well secured. Lock fuel outlets when not in use.
- Secure plant to prevent vandalism.
- Immobilise plant and equipment overnight.
- Install deterrents such as lights, warning notices, consider 24-hour security guards and alarm systems if found to necessary.
- Control the movement of people on and off site by using site passes.
- Position the Project Manager's office to give a good view of the site.
- Inform local police about the site and seek their advice on security.

5.4. Storage of Fuels and Oils

The following measures will be adopted: -

Storing Oils, Fuels and Chemicals

- Securely store all containers that contain potential pollutants (e.g. fuels, oils and chemicals).
- Clearly label containers so that appropriate remedial action can be taken in the event of a spillage.
- Regularly check taps and hoses for leakage.
- Avoid storing drums tightly against each other – store drums so that they can all be inspected for leaks.
- Prevent damage from vandalism. Ensure that all valves and trigger guns are vandal and tamper proof.
- Clearly mark the contents of any tank, and display a notice that demands that valves and trigger guns are locked when not in use.
- Store tanks or drums in a secure bunded container or compound that is locked when not in use.
- Provide separate fill pipes for each tank unless the tanks are interconnected by a balance pipe of greater flow capacity than the fill pipe.

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- Mark fill pipes with product type and tank numbers where there is more than one tank.
- Before moving a drum, check the bung is secure.

Bunding Tanks

- To avoid accidental spillage, bunded tanks will be used with a minimum capacity of 110% of the volume of the largest tank.
- Do not let bunded areas remain filled with rainwater or slops (ideally, provide a cover).
- Position tanks away from vehicle movements and mark them clearly so that they are visible and so that people know they are a potential risk.
- Do not put tanks where there is a direct link to surface watercourses or sewers.
- Avoid placing tanks on unmade ground to reduce the risk of contaminating the soil.
- Protect from vandalism.
- The bund will be impermeable to the substance that is being stored in the tank.
- Position air vent pipes so that they can be seen easily directed so that any discharge (eg in the event of the tank being overfilled) is directed into the bund.
- Fill points should be inside the bund.
- Fit any pump sited outside the bund with a non-return/check valve installed in the feed line.

Refuelling Protocol

- Designate bunded refuelling areas.
- Do not use remote fill points or refuelling close to watercourses. Where this is unavoidable, keep materials such as absorbent pads or booms readily available in case of spillage.
- All refuelling must be supervised. Do not leave valves open unattended.
- Keep an emergency spill kit at the refuelling point.
- Ensure that personnel carrying out refuelling are aware of the protocol and know what actions to take in an emergency.

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5.5. Managing Materials

The following will be adopted: -

Ordering and receiving deliveries

- Order the right quantity and quality of materials to arrive at the time when they are needed. This reduces the length of time materials have to be stored on site and therefore reduces the potential for damage or theft to occur.
- When ordering, find out in what form the materials will be delivered, so that the appropriate unloading plant can be arranged.
- After placing an order, check the arrangements for handling and storing materials as soon as they arrive on site.
- Arrange for deliveries to be received by a member of site personnel who is able to supervise the delivery, carry out a quality inspection and ensure that the materials are unloaded to the appropriate place.

Storage

There will be a combination of central storage and workplace storage used on site, the balance between them will depend on the works in progress. It is important to manage storage areas well because they set an example for the site. Keep the following points in mind: -

- Ensure that the material suppliers' instructions on storage are being followed
- Store materials that are valuable or attractive to thieves in a secure area.
- Store materials away from waste storage containers and from vehicle movements that could cause accidental damage.
- Secure lightweight materials to protect them from wind damage or loss.
- Take special; care over the storage of materials that are potentially polluting.

Handling

There are many methods of moving materials around site. Options include cranes, trucks, forklifts and even manual handling. Ensure that the suppliers' instructions on handling their materials are followed to minimise damage to materials and injury to site personnel.

5.6. Waste Management

Duty of Care

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All those who produce or handle wastes from demolition, earthworks and construction activities have legal responsibilities – Duty of Care – for its safe keeping, transport and subsequent recovery or disposal. Failure to comply can result in an unlimited fine.

We will ensure that licensed waste carriers are used and that disposal is at licensed sites. Before surplus material is removed from site WAC testing will take place to allow the waste carrier and licenced tip to understand what they are receiving.

Segregated skips will be used on site. All waste will be logged onto the site waste management plan.

Surplus COSHH material or the empty cans will be stored in airtight barrels on site. They will be removed by the licensed waste carrier.

Filling in the Paperwork

A written description of the waste and a transfer note must be filled in and signed by both parties involved in the transfer. Repeated transfers of the same type of waste between the same parties can be covered by the one transfer note for up to one year.

The transfer note must include:

- What the waste is, how much there is and its waste code.
- What sort of containers it is in.
- The time, date and place the waste was transferred.
- The names and addresses of both persons involved in the transfer.
- Details of which category of authorised person each one is e.g. producer, registered waste carrier, waste licence holder.
- A copy of the waste management licence, the licence number of the facility.
- Where appropriate, the name and address of any broker involved in the transfer of waste.
- Signed by both parties and transfer notes kept for two years.

Checking

- If we are dealing with hazardous wastes, such as asbestos, chemicals, oils or contaminated soils, we will have extra legal responsibilities and may be required to complete detailed waste transfer consignment notes. If unsure, check with the local Environmental Agency office: **0300 065 3000**.
- Check the registration certificate of the waste carrier before handing over the waste. This can be an A4-sized colour certificate (photocopies are not sufficient) or one that looks like a credit card. Both have security features built in.
- Check with your waste carrier where the waste is being taken and make sure the destination is authorised to receive it. If in doubt, check with the Environment Agency **0300 065 3000**. For difficult or bulky wastes, it may be appropriate to check that the waste wagons have actually delivered to the intended site.
- Be alert to any evidence or suspicion that demolition, earthworks or construction waste is being dealt with illegally. If you have any suspicions that someone is

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handling waste illegally or using an unauthorised disposal site, contact the hotline number **0300 065 3000**.

What is waste?

Waste is defined as:

Any substance or object that you discard, intend to discard, or are required to discard is waste and as such is subject to a number of regulatory requirements. The term ‘discard’ has a special meaning. Even if material is sent for recycling or undergoes treatment in-house, it can still be waste.

Whether or not a particular material is waste is for the person producing it to decide in accordance with the law.

5.7. Traffic and Access Routes

Road markings will show the traffic route for vehicles to follow within the site. Entry and access into the site will be through the same gates.

The following rules and examples of good practice will also apply:-

- When ordering deliveries, ensure that all drivers are aware of traffic restrictions at and around the site.
- Arrange deliveries to site so that vehicles can go straight in without having to queue outside the site boundary.
- Instruct drivers to switch off engines when vehicles are waiting.
- Parking for site personnel’s vehicles is in the designated parking area on site.

5.8. Site Clearance Following Completion

This is a phase of the works that usually receives little attention, but it can cause the most problems. In clearing the site it is vital that wastes are managed in accordance with the regulations. On completion of the works, the contractor will clear away and remove from the site all plant, surplus materials, rubbish and temporary works. The whole of the site and works will be left clean.

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6. Construction Methods

6.1. Details of the Extent and Phasing of the Development.

The project will occupy the whole of the area detailed on the plan Appendix A. Within the red line area an asphalt plant, aggregate building, weigh-bridge and control cabin will be located. Within the yellow line area car parking, gas storage and water treatment structures will be located. In general the planning works are to be completed by May 23, and construction is anticipated to commence in early June with commissioning of the plant in November 2023.

The existing yard will be occupied as at present, using the existing fully serviced offices, and perimeter security fence, (repaired where necessary), with controlled entry and exit gates to ensure no unauthorised access. During periods when no operatives are on site a remote camera security system will operate.

6.2. Construction Materials

The asphalt plant will be a steel structure painted Goosewing grey, RAL 080 70 05. BS10A05

The aggregate storage building will be a steel framed structure clad in steel profile sheeting again goosewing grey in colour.

Foundations for both main structures will be reinforced concrete ground slabs.

The north end of the plot adjacent the aggregates storage building will be a reinforced concrete yard, elsewhere there will be a macadam surface.

A vegetated strip overlaying a sealed drainage network will be laid along the western boundary with slotted channel drains running west to east across the yard to permit surface water drainage. The channel drain will issue into a reinforced concrete settling pond after which it will pass through a flow control meter, prior to entering a long shallow swale lined with sedges and rushes before discharging into Red Pill on the southern boundary.

6.3. Deliveries and Storage

Deliveries will be directed along the B4290 from the M4 Junction 41, and into Edwards Yard. They will approach the site using the one- way system and contact the site foreman who will arrange access. On site the delivery vehicles will be directed to the appropriate location for unloading with a banksman present should any reversing movements be necessary. Unloading for most deliveries will utilise the site telehandler operated by an approved operator. For larger elements such as the asphalt plant and aggregates building a crane will be operational under strict Permit to Lift protocols involving lift supervisors and lift plans.

Storage of non – inflammable dry goods will be within one of the two garage buildings on site. Plant and equipment when not in use will also be parked within these covered areas.

Storage of hazardous substances will be within a Coshh Store.

Storage of fuel will be in a fully compliant bunded locked bunker.

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6.4. Waste and Contaminated Land.

The proposed site surface levels have been designed such that all excavated material will be reused to raise the level of the North end of the site to ensure surface falls towards the western and southern boundaries. From the borehole evidence the material is likely to be slag in origin.

Once excavated material has been placed and compacted to the final profile the surface will be covered with a warning membrane, and then covered with at least 100mm of planned tarmacadam or crushed concrete recovered from the original site surface. Where concrete foundation slabs are required for the new asphalt plant, new aggregates building, and yard areas The warning membrane will be laid beneath the blinding.

7. General Site Management

7.1. Construction Programme.

The proposed construction programme is detailed in Appendix B attached. Basically, the period from now to the end of May will be the planning approval stage, followed by construction from June to November 23 before becoming operational. During the planning stage, water quality monitoring and a ground radar survey will be undertaken, as well as some elements of site clearance prior to the bird nesting season.

7.2. Site Clearance

The removal of the colonising scrub/tall ruderal species found within the perimeter hardcore of the site will be grubbed up and stockpiled for regrading adjacent to the Red Jacket Pill.

The existing concrete slab surfaces will be broken up and crushed for reuse as capping material. Th existing tarmacadam surfacing will be planned out and again stockpiled for reuse as capping material.

7.3. Construction Drainage

A fully designed Suds drainage system will be prepared and presented by SLR. A new discharge pipe into Red Pill will be constructed with an appropriate headwall and flap valve. The discharge pipe will drain a shallow swale that will run along the Southern boundary of the site. It will be planted with sedges and reeds to provide further filtration for the surface run off.

Upstream of the swale will be a flow control chamber just below the reinforced concrete trapezoidal channel that will be the primary settlement tank for the system. Along the western boundary of the yard a vegetated strip overlaying the site drainage system will be established to take the flow from the transverse slotted drains laid across the asphalt plant yard. The drain will discharge into the settlement tank.

The existing car park drainage system will be jetted out/ surveyed and repaired where required, with the outfall located and upgraded.

7.4. Sensitive receptors

Ground Water. Prior to any construction the outfall water will be tested to ascertain current contamination levels. During the construction and manufacturing phases, regular monitoring will be undertaken to ensure contamination levels remain similar to present

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levels. The surface of the asphalt yard will be sealed with an impermeable surface of either reinforced concrete or asphalt thereby mitigating possible contamination of the ground water by plant processes.

During construction and once operational the surface water run - off will be monitored weekly at the Red Pill outlet to ensure sediment levels remain within permitted tolerances.

Noise monitoring equipment will be retained on site to check levels during the construction phase, with operations and equipment monitored to ensure compliance with acceptable noise levels. During commissioning of the plant a Noise Impact Assessment will be undertaken which will result in the production of a Noise management Plan to be implemented prior to the commencement of regular production of asphalt. Typical Noise levels of the proposed plant in operation are attached in Appendix C.

Vibration monitoring will be undertaken by specialist service providers during commissioning and running of the asphalt plant. Emissions from the stack will also be regularly monitored by the built - in sensors.

8. Control of Nuisances

8.1. Construction Nuisance

No piling works are required on the scheme.

Standard construction equipment, eg. tracked excavators, rollers, telehandlers, mobile cranes, Mewps and dumpers compliant with current regulations will be utilised. Spill kits will be available on all mobile plant, with spill trays or bunds provided for static plant.

No materials other than domestic rubbish will be transported off site.

Vibrations arising from demolition hammers breaking up existing concrete hard-standings, and vibratory rollers compacting the site generated fill, will be monitored by Site Staff. If noise levels are excessive as established by noise assessment surveys, then alternative demolition and compaction methods will be utilised.

9. Traffic Management

9.1. Construction Phase TM

The Construction Phase Traffic Management Plan will be as described in Section 6.3. above. No wheel wash facilities are envisaged as all surplus materials will be reused on site.

9.2. Operational Phase

When the plant becomes operational the proposed traffic flows have been detailed on Drg detailed in Appendix D.

All HGV delivery and collection vehicles will access the site through the north gate along the eastern boundary, (except for those detailed in 6 below). The automated gated access into the plant will be controlled from the weighbridge pod past which all vehicles will be directed. Vehicles collecting asphalt products will then be required to park up until called under the plant to load, once filled they will return to the weighbridge to complete the necessary weighing and administration before leaving the plant and exiting the site through the one way system. No drivers will need to leave their vehicles unless within the dedicated sheeting area. Road Markings and signage will guide vehicles through the plant.

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Vehicles delivering aggregates and bitumen will again pass the weighbridge on entering the plant, but once discharged will exit directly.

9.3. Site Employees and construction workers.

Personnel employed at the plant, (including construction staff), administrators, weighbridge and plant operators, and mechanics will enter through the South gate along the eastern boundary and park their cars in designated places within.

The only HGV vehicles permitted through the south gate will be either to enter the workshops, or deliveries of Calor Gas to the storage facility.

9.4. Visitors

Visitors will be directed to the south access and have dedicated parking facilities in the parking area, with a clearly marked footway to the reception area.

10. Site Hours

10.1. Construction Phase

During the construction phase Normal site hours will be from 7.30am until 17.30pm Monday to Friday and possibly Saturday 7.30 until 4.00pm.

10.2. Operational Phase.

The plant will normally commence operations at 5.00am and complete production by 5.00pm, however surfacing requirements for the M4 motorway and other traffic sensitive areas will require asphalt supplies out of hours, sometimes requiring the plant to be operational throughout the night, including weekends.

11. Biodiversity Management

11.1. Enhancement Plan

Please see the Biodiversity Enhancement Plan and timetable in appendix E.

11.2. Landscaping and Planting.

The Larch Group will produce a comprehensive Planting and Design spec. for the flora to be established on the two swales forming part of the Suds Drainage system.

12. Soil Management

12.1. Topsoil

Topsoil to be stripped along the southern boundary to accommodate the swale construction will be carefully excavated and stockpiled under the guidance of the site ecologist. The soil will be reused within the final surface of the swale. The existing flora within the area will be enhanced with the addition of reeds and sedges to assist with filtration.

12.2. Site arisings.

Arisings from the foundation excavations, drainage, and duct installations will be deposited and regraded at the north end of the plant to raise the site levels to comply with flooding regulation requirements and assist with falls to aid surface drainage. See drawing in appendix F. A ramp will be constructed to access the aggregate bins on the plant. This ramp will be formed by a concrete retaining structure filled with compacted site arisings.

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13.Resource Management

13.1. Fuel Storage

Derv and AdBlue bunded tanks will be positioned on site where accessible to HGV vehicles with adequate protection against accidental impact. Spill kits and Emergency Containment Equipment will be maintained on site and personnel trained in their use as detailed within the Pollution Response Plan produced in compliance with GGP 2.

13.2. Chemical Storage

The asphalt plant has 3 large storage units holding bitumen and PMB, all of which are fully bunded. Protection against accidental impact will be provided by enclosing them with Armco traffic barriers. Any other hazardous chemicals necessary for the Plant operation will be retained within the coshh store on site, with access to products strictly controlled.

13.3. Waste Management

Any surplus products arising out of the plant's use, or product returns from customers will whenever possible be recycled and used in the WRAP system. Surplus aggregate products will be taken to a licensed recycling facility.

13.4. Water Resource

Roof water from the aggregate storage building will be collected and stored in a large 6000 litre tank, from where it will be utilised as wash - down water around the plant. A mains supply back up is already present on site.

13.5. Solar Panels

Solar panel systems will be placed on the roofs of the aggregate storage building and the existing garage building and be connected to the site electrical systems.

13.6. Energy Consumption

The plant will be electrically operated requiring a new site supply to be installed by National Grid, together with a new site electric sub station. The aggregates drier on the plant will be gas fired with Calor Gas tanks to be erected on site as detailed on plan in Appendix A.

14.Pollution Prevention

14.1. Environmental Responsibilities

GD Harries acknowledges and strives to adopt the good environmental practices as detailed in GPP1 (Guidelines for Pollution Prevention).

14.2. Above ground oil storage.

The site will follow the guidelines detailed in GPP2 with prevention methods designed to break the Source/pathway/Receptor sequence.

14.3. Drainage pollution

The works adjacent to Red Pill will follow the guidance detailed in GPP 5.

14.4. General Construction Site

During the planning stage of the contract the principles set out in PPG 6 will be followed viz:-

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Know the Risks, Prepare for Pollution Prevention, Site security, and Communication, and these will be transferred by the induction process to site staff and operatives.

14.5. Storage Drums and containers

Asphalt Additive Products supplied in IPC's will be stored in accordance with the guidelines detailed in GPP 26. A pollution Incident Plan will be prepared for each product along with the coshh sheet and the appropriate spill kit will be kept on site.

15. Responsible Persons

15.1. Organogram

Aa organogram of the personnel that will be involved in the construction phase of the project is included in Appendix F.

16. Environmental Issues

We will follow best practice for controlling environmental issues on site.

16.1. Site Set Up

16.1.1. Deliveries will be made to a materials and stores area established on the site furthest from the nearby stream, the Red Jacket Pill.

16.1.2. A one way system will be established for all site vehicles.

16.1.3. Fuel storage and COSHH storage areas will be established within the stores area.

16.1.3.1. Spill kits will be available at these locations.

16.1.4. A 10mph speed limit will be posted and enforced on site.

16.1.5. "Enviropad" spill mats will be used instead of drip trays to remove the problem of polluted ponding water sitting in drip trays.



16.2. Site Drainage

16.2.1. A vegetation corridor will be left between the site and the river to act as a buffer to prevent silt entering the stream.

16.2.2. Cut off ditches will be established around the perimeter of the construction site to intercept run-off.

16.2.3. Water from excavations will be pumped through silt bags into grassy areas well away from the river.

16.2.4. Plant and wheel washing will be carried out in a designated area at least 10m from the river.

16.2.4.1. Run-off will be collected in a small settlement pond.

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16.2.5. All drainage will be identified on site before work starts and clean and dirty water kept separate.

16.2.5.1. Existing gullies and manhole covers will be highlighted and silt and chemicals kept away from these potential outlets.

16.2.6. An incident plan will be established and communicated to the site team.

16.2.7. A daily recorded site inspection will be undertaken looking for any signs of silt or other pollutants reaching the watercourse.

16.3. Excavations

16.3.1. The construction site is brownfield area the site team will be briefed on what to look out for and what to do if contamination is found.

16.3.2. Water samples will be taken from water generated during excavations to check for contaminants.

16.3.3. Water from excavations will be controlled by sumps within the excavations; small settlement ponds; and pumped via silt bags into grassed areas and vegetation corridors.

16.4. Material Storage

16.4.1. Stockpiles will be located away from watercourses, gullies and manholes.

16.4.2. Stockpiles will have cut off ditches excavated around the perimeter of the base

16.4.3. Stockpiles will be kept below the height of the site boundary

16.4.4. Enclosed segregated skips will be provided to dispose of packaging.

16.5. Oil Use, Storage and Refuelling

16.5.1. The oil will be stored within the segregated area within the stores compound.

16.5.2. The storage area will be a minimum of 10m from watercourses and drainage.

16.5.3. Fuel will be kept in double bunded and locked purpose made tanks.

16.5.4. An earth bunded area will established for the fuel tank.

16.5.4.1. The bunded area will be lined with impermeable membrane (dpm).

16.5.5. Oil drums and containers will be kept in a bunded COSHH stores.

16.5.6. A spill kit will be kept at the stores near the fuel area.

16.5.7. Drip trays will be used during refuelling.

16.5.8. Refuelling will only take place within the storage area.

16.5.9. All fuel stores will be lockable and secured when not in use.

16.5.10. A fuel log will be kept to monitor fuel usage and to spot any potential leaks.

16.5.11. Inspection of the storage areas and the containers will be part of the documented weekly site inspection.

16.5.12. An emergency response plan will be made for site and the site team drilled on how to deal with a fuel spill.

16.6. Nuisance

16.6.1. There will be a water bowser on site for dust suppression when needed.

16.6.2. Noise will be controlled by limiting the site hours.

16.6.2.1. Neighbouring properties are commercial premises.

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16.6.3. Work will be undertaken during hours of daylight.

16.6.3.1. Lighting for stores and office compounds will be directed away from the site perimeter.

16.6.4. Segregated covered skips will be used to prevent vermin.

16.6.5. Daily plant check sheets will be completed before using plant every morning and any issues reported immediately so that faults can be fixed.

16.6.5.1. This will limit noise and smoke pollution from items of plant.

16.7. Cement, Concrete and Grout.

16.7.1. Bagged cementitious products will be kept within storage containers to keep them dry.

16.7.2. Portable mixers, concrete lorry chutes, shovels will be washed out in the designated concrete washout area on site.

16.7.2.1. A lined and covered skip will be used.

16.7.2.2. Solids will be removed frequently.

16.7.3. Tool box talk for the site team to make them aware that cement, grout or concrete washings are not to enter surface water or drains.

16.8. Land Contamination and Invasive Plants

16.8.1. Work will be undertaken to an agreed strategy advised by a specialist in the treatment of contaminated land.

16.8.2. Any suspicious materials or smells uncovered during excavation will be reported to site management immediately.

16.8.2.1. The area will be barriered until investigations are complete.

16.8.3. The site will be surveyed for invasive species such as Japanese Knotweed, Himalayan Balsam, and Giant Hogweed.

16.8.3.1. These areas will be fenced off to prevent construction activities disturbing the area.

16.8.3.2. Specialist contractors advice will be sought for the treatment or removal of the plant.

16.9. Chemicals and Hazardous Substances

16.9.1. Chemicals and hazardous substances will be stored in bunded COSHH stores,

16.9.2. A COSHH register will be in place for the products kept on site.

16.9.2.1. Safety data sheets are available.

16.9.2.2. The site team will be briefed on the storage and handling of these materials.

16.9.2.3. Emergency plans will be developed within each products COSHH register.

16.9.3. Spill kits available at stores area.

16.9.4. Site team will be trained on the use of spill kits.

16.10. Waste Management.

16.10.1. Store your waste safely and securely on site e.g. prevent windblown materials such as plastics leaving site.

16.10.1.1. Covered skips and bins will assist this

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- 16.10.2. Prevent any liquid wastes leaching from bins or skips – this includes dry wastes that may become wet, e.g. through exposure to rain.
- 16.10.3. Develop a site procedure for selecting and managing waste contractors, those that remove your waste, to ensure that you meet your duty of care requirements
- 16.10.4. Have appropriate duty of care documentation, i.e. completed waste transfer notes or consignment notes for hazardous waste for each load of waste removed from the site
- 16.10.5. Prevent hazardous wastes being mixed with other hazardous wastes or non-hazardous wastes
- 16.10.6. Keep all waste transfer notes and consignment notes for 2 and 3 years respectively.
- 16.10.7. A Site Waste Management Plans (SWMP) will be used to help comply with most waste legislation and reduce the amount of waste generated.
- 16.10.8. Ensure materials aren't over-ordered to avoid waste in the first place.
- 16.10.9. Lock waste storage areas, bins and skips.
- 16.10.10. Perform checks on end disposal of waste to satisfy yourself that your contractors are complying with legislation and record your findings.

17. Site Specific Environmental Issues and Risk Assessments

Site specific Environmental Issues have been identified and noted in the attached Environmental Risk Assessment.

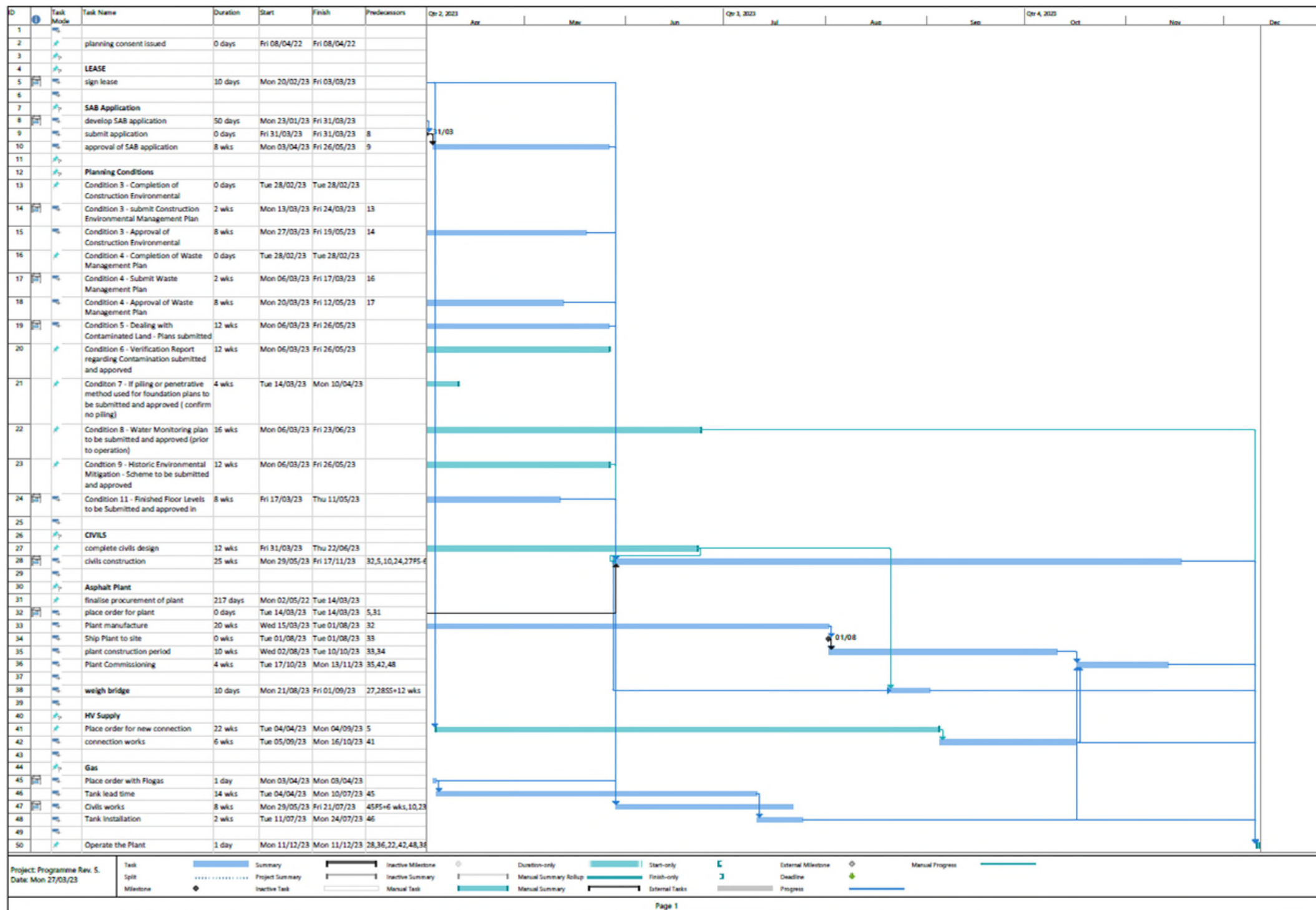
The results of this Risk Assessment will form part of the Site Environmental Plan. Any additional monitoring Procedures required (i.e. in addition to those included in Section 3) should be scheduled here.

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Appendix A

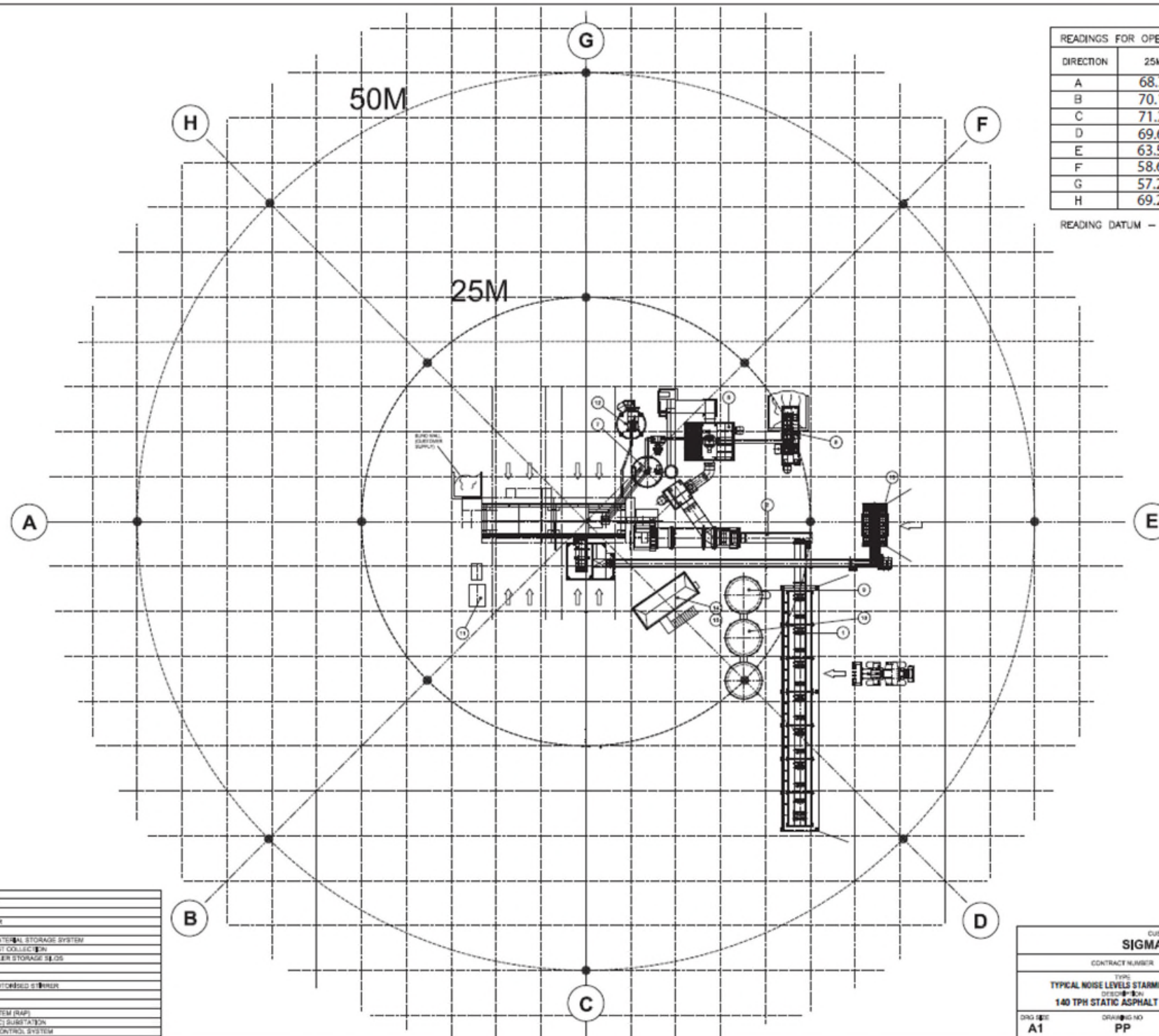
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Appendix B



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Appendix C

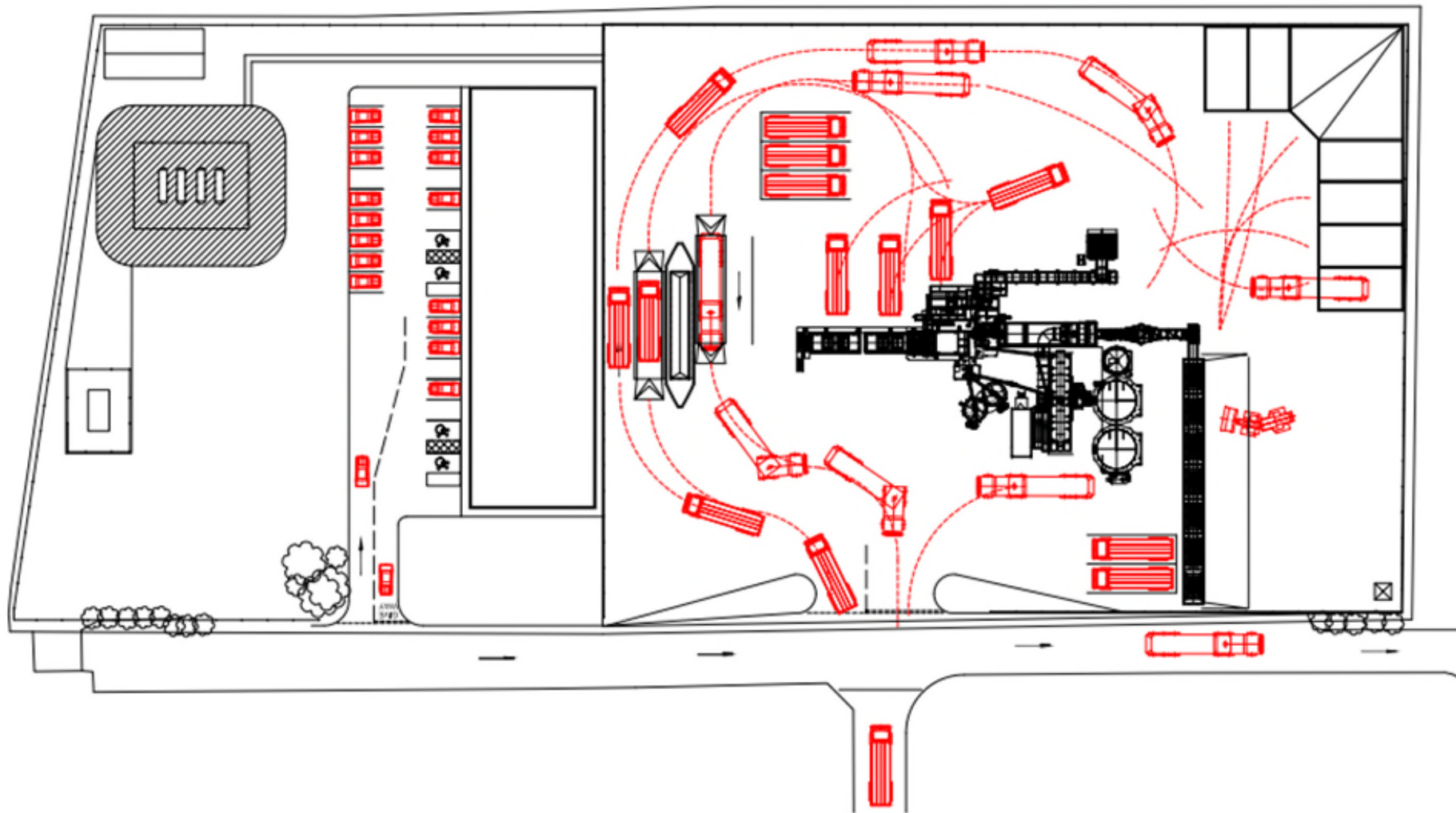


REF	DESCRIPTION
1	SEVEN (7) BIN COLD FEED UNIT
2	DRYER FEED CONVEYOR
3	DRYER AND DUAL FUEL BURNER
4	SCREENING & MIDDING TOWER
5	300 TONNE INTEGRAL MIXED MATERIAL STORAGE SYSTEM
6	PRIMARY AND SECONDARY DUST COLLECTION
7	IMPORTED AND RECLAIMED FILLER STORAGE SLOES
8	DUST COLLECTOR
9	BITUMEN STORAGE SYSTEM
10	PMB STORAGE SYSTEM AND MOTORISED STIRRER
11	EVOTECH ADDITIVE SYSTEM
12	SMA FIBRE ADDITIVE SYSTEM
13	RECYCLED ASPHALT FEED SYSTEM (RAP)
14	MOTOR CONTROL CENTRE (MCC) SUBSTATION
15	CONTROL HOUSE AND PLANT CONTROL SYSTEM

CUSTOMER-LOCATION SIGMAROC - CARDIFF	
CONTRACT NUMBER	PARKER PLANT LTD LEICESTER-ENGLAND
TYPICAL NOISE LEVELS STARMIX 1520 HL DESCRIPTION 140 TPH STATIC ASPHALT PLANT	
DWG REF A1	ISSUE NO 2
DRAWING NO PP	
	

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Appendix D



ORIGINAL SITE LAYOUT

				CUSTOMER - LOCATION	
				SIGMAROC - CARDIFF	
				CONTRACT NUMBER	PARKER PLANT LTD LEEDS - ENGLAND
				TITLE	ASPHALT PLANT
				DESCRIPTION	ORIGINAL SITE DEVELOPEMENT
REVISIONS NO. REV. DATE 1 01/01/01 2 01/01/01 3 01/01/01 4 01/01/01 5 01/01/01 6 01/01/01 7 01/01/01 8 01/01/01 9 01/01/01 10 01/01/01 11 01/01/01 12 01/01/01 13 01/01/01 14 01/01/01 15 01/01/01 16 01/01/01 17 01/01/01 18 01/01/01 19 01/01/01 20 01/01/01 21 01/01/01 22 01/01/01 23 01/01/01 24 01/01/01 25 01/01/01 26 01/01/01 27 01/01/01 28 01/01/01 29 01/01/01 30 01/01/01 31 01/01/01 32 01/01/01 33 01/01/01 34 01/01/01 35 01/01/01 36 01/01/01 37 01/01/01 38 01/01/01 39 01/01/01 40 01/01/01 41 01/01/01 42 01/01/01 43 01/01/01 44 01/01/01 45 01/01/01 46 01/01/01 47 01/01/01 48 01/01/01 49 01/01/01 50 01/01/01 51 01/01/01 52 01/01/01 53 01/01/01 54 01/01/01 55 01/01/01 56 01/01/01 57 01/01/01 58 01/01/01 59 01/01/01 60 01/01/01 61 01/01/01 62 01/01/01 63 01/01/01 64 01/01/01 65 01/01/01 66 01/01/01 67 01/01/01 68 01/01/01 69 01/01/01 70 01/01/01 71 01/01/01 72 01/01/01 73 01/01/01 74 01/01/01 75 01/01/01 76 01/01/01 77 01/01/01 78 01/01/01 79 01/01/01 80 01/01/01 81 01/01/01 82 01/01/01 83 01/01/01 84 01/01/01 85 01/01/01 86 01/01/01 87 01/01/01 88 01/01/01 89 01/01/01 90 01/01/01 91 01/01/01 92 01/01/01 93 01/01/01 94 01/01/01 95 01/01/01 96 01/01/01 97 01/01/01 98 01/01/01 99 01/01/01 100 01/01/01				DRG. NO.	PP2181-ORIG
				ISSUE NO.	1

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Appendix E

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Edwards Yard, Llandarcy
Proposed Asphalt Plant.

Biodiversity Enhancement Plan Timetable.

Proposed Biodiversity Enhancement Plan	Date of Completion
Remove all of the colonising scrub/tall ruderal species from the stone substrate bounding the east south and west perimeters of the site.	March 2023
Provide 2 no. bird boxes and 2 no. bat boxes attached to the main building.	March 2023.
Construct a swale along the north boundary adjacent to Red Pill. The vegetation planted within the area will include reeds and sedges.	September/October 2023.

All works to be completed by December 2023.

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Appendix F

Llandarcy Asphalt Plant

