

Thames Materials Limited

Central Park Dagenham

Operational Plan

Document Ref: 183185/OP

April 2020



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1. INTRODUCTION

Overview

- 1.1 This Operational Plan describes how the operation of the site will occur in accordance with Environment Agency standards and outlines how the activities will meet with risk assessment guidance from the Environment Agency website ⁽¹⁾ and relevant sector guidance. The site location plan is presented in drawing 183185/D/001. The site receptors are presented in drawing 183185/D/002.
- 1.2 The import and placement will occur over a 2 year (worst case) period and will involve the importation of circa 219,452 cu m of suitable waste material to be used as engineering fill to alter the existing topography and contours of the park, to enhance the park's quality and to allow effective drainage and site wide runoff. The proposed contours and attenuation regime are presented in the Weller Designs Ltd drawing WD809G01.
- 1.3 This Operational Plan outlines the waste activities and the necessary controls required. This plan should be read in conjunction with the Environmental Risk Assessment (183185/H1ERA), Waste Recovery Plan (183185/WRP) and Importation Protocol (183185/IP).

Working Hours

- 1.4 The site will operate in standard operating hours as presented in Table 1.

Table 1. Operating Hours

Days	Hours
Monday to Friday	0700-1700
Saturdays, Sunday and Public Holidays	No vehicle movements or operation

2. MANAGEMENT

Management

- 2.1 The site will be operated in accordance with the Operator's Environmental Management System (EMS), which is set out to the requirements of BS ISO 14001.
- 2.2 The site will have specific management plans including, but not limited to, the following:
- Operational Plan (this document);
 - Accident Management Plan;
 - Waste Recovery Plan;
 - Importation Protocol;
 - Noise Management Plan (NMP);
 - Particulate Emissions Management Plan (EMP);
 - Site and Equipment Maintenance Plan; and
 - Complaints procedure.
- 2.3 These plans and other site procedures set out the following:
- Control of operations on the environment;
 - Register of Environmental Effects;
 - Monitoring of emissions;

¹ Environment Agency website, *Control and monitor emissions for your environmental permit* page, (accessed April 2020): <https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit>

- Management of Staff Competence & Training (Roles and Responsibilities);
- Training of all staff on EMP
- Record Keeping;
- Inspections (Daily Record and includes TCP presence);
- Policies;
- Review process of the EMS; and
- Site Closure arrangements.

Staffing

- 2.4 All staff and operatives have clearly defined roles and responsibilities with specified skills for each post required.
- 2.5 At all times there will be sufficient staff to manage and operate activities on the site without causing a risk to the environment. Staff employed at the site on a typical shift may include:
- Materials Engineer and Technically Competent Person (TCP) or delegate;
 - Plant operative; and
 - Site Manager.
- 2.6 In accordance with Environment Agency guidance⁽¹⁾ the site will be supervised by the TCP, in addition to at least one member of staff who is fully conversant with the requirements of the Permit and Operational Plan regarding, in particular, the following:
- Waste acceptance and control procedures;
 - Operational controls and environmental monitoring;
 - Maintenance;
 - Record-keeping;
 - Accident/incident action plans; and
 - Notifications to the Environment Agency.
- 2.7 The TCP will be on site for greater than 20 % of the operation of the facility.
- 2.8 Technical staff will demonstrate continuing competence by passing periodic assessment. Personal training records will be kept, to provide evidence.
- 2.9 All contractors will be trained about the relevant working controls and legal responsibilities relating to their areas of works.
- 2.10 The Site Manager will only authorise for works to be undertaken once relevant legal requirements and a site-specific risk assessment has been completed.

3. WASTE MANAGEMENT OPERATIONS

Overview

- 3.1 This section of the Operational Plan outlines the waste management operations for the re-formation of the land. Schedule 1 details the activities operating at the site. Schedule 2 presents the permitted waste types for the platform.
- 3.2 Only waste from pre-selected contracts will be permitted at the site. There will be no-adhoc acceptance of material at the gate. No hazardous waste is to be accepted.
- 3.3 Prior to acceptance the waste will be reviewed to determine its characteristics and assess treatability. The following will be assessed:
- the nature of the process that produced the waste, including variability of the process;
 - the composition of the waste; and

- each new enquiry will complete a Waste Acceptance Form (WAF) or equivalent information collection proforma, setting out its EWC Code and characteristics, including potential for odour, state (form), quantity and any non-hazardous categorisation.

Waste acceptance, storage and quarantine

- 3.4 The Importation Protocol (183185/IP) will be implemented at the site to ensure that all material conforms to the required standard. The Importation Protocol contains the performance specification, testing and inspection requirements.
- 3.5 Prior to permitting the delivery of the waste, the waste producer will be required to provide the operator with sufficient information for a basic characterisation of the waste. All wastes transported to the site will be weighed by estimated density to its container size or by weighbridge. Only permitted waste that conforms to the type and description in the documentation supplied by the producer and/or holder will be accepted. The waste must conform to the pre-importation data on the WAF sheet.
- 3.6 The site will operate a quarantine area. The quarantine area will be located near the access to the site (see drawing 183185/D/003). The quarantine area is flexible in size. It can accommodate small isolated non-compliant waste in sealed, lockable containers; or larger stockpiles of material underlain and covered by HDPE geomembrane plastic sheeting to prevent pathways to local receptors.
- 3.7 When plastic sheeting is to be used, the basal sheeting rolls be overlapped to ensure sufficient seal between rolls. Once the cover plastic has been placed, the quarantined material will be left until final classification has been determined. The area will not be disturbed and will be appropriately sign posted to ensure no risk of disturbance or damage to the plastic liner.
- 3.8 If material is deemed potentially unsuitable the producer will be notified and no further import of the suspect material will be permitted until the matter is fully resolved.

Waste Recovery

- 3.9 Operations will involve the transfer, temporary storage and placement of suitable imported inert waste. Due to the size of the park (approximately 47 ha) the land formation works are expected to be carried out in phases thus allowing parts of the park to be used by residents and visitors.

4. ENVIRONMENTAL OPERATING CONTROL

Drainage and pollution control

- 4.1 During construction, temporary drainage will be constructed, where necessary, including but not limited to, swales, silt fencing, and use of small lagoons to manage surface water runoff and mitigate suspended solid loading. The permanent attenuation ponds will be constructed as early on as possible. All runoff will be directed to the ponds for temporary storage. There will be no discharge off site during the permitted activities.
- 4.2 There may be minor storage of oils / chemicals to ensure maintenance of all site plant. The operation of machinery can generate a risk of spillages from hydraulic hose burst. A site spillage plan will be developed as part of the Emergency Action Plan and EMS at the site. The spillage plan will outline how oils and hydrocarbons will be contained and cleaned up.
- 4.3 The materials accepted on site will comply to the thresholds set out in the Importation Protocol for the protection of both Human Health and Controlled Waters and will be monitored via the waste acceptance criteria set out in the Importation Protocol. The Importation Protocol thresholds have been derived from the Hydrogeological Risk Assessment.

Noise

- 4.4 The site is expected to have a low residual risk of noise impact on the nearest receptors, the residents of the properties bordering the site and the park visitors, due to the limited nature of activities (importing and placement of material) and the control measures that will be applied. There are restricted hours of operation as presented in Table 1. A Noise Management Plan (183185/NMP) is submitted with this application.

Air emissions

- 4.5 A Particulate Emissions Management Plan (183185/EMP) is submitted with this application. There will be no point source emissions of air pollutants. Any release will be fugitive. Operations at the site will ensure the suppression of dust and fugitive emissions. The site is expected to have a low residual risk.

Litter

- 4.6 The waste types received at the site will have no litter. The site will be inspected daily and any litter identified will be bagged and removed from the site.

Odour

- 4.7 The permitted material will have a low odour potential. This will be managed through the Importation Protocol (183185/IP). Accordingly, the risk of imported materials being malodorous is considered very low.

- 4.8 Any complaints will be recorded in the site diary and the malodorous waste source investigated.

Fire

- 4.9 The permitted wastes have a low combustion potential and no fire or burning of material will occur on site. The site will be secured when not in operation and any fuel sources securely stored and locked.

Pests

- 4.10 The waste recovery activity is considered to have a low risk of attracting pests. The site inspection regime will identify the presence of any pest and implement necessary controls to remove pests from the site.

5. WASTE

- 5.1 The operation is designed to recover imported material for deposition as recovery, to enable construction of the land raise for the creation of level pitches at the site. No significant waste is anticipated to be generated by the activity.
- 5.2 The operator recognises the Duty of Care requirements of the Permit. The operator will adhere to Section 34 of the Environmental Protection Act 1990 'Waste Management: The Duty of Care – A Code of Practice'.
- 5.3 Details of the waste arriving at the site will be recorded at the office. Relevant Duty of Care information will be recorded into the database. Quarterly waste returns will be completed and submitted to the Environment Agency in accordance with the Permit requirements.

6. INFORMATION MANAGEMENT

Records

- 6.1 In line with documented procedures and in certain instances statutory requirements, records will be maintained in relation to the following:
- Waste information documentation on all potential wastes to be recovered at the site;
 - Characteristics and volumes of waste accepted, and waste dispatched (and all other records required by the Duty of Care);
 - Any emissions monitoring data;
 - Recorded environmental effects including minor and significant pollution incidents;
 - Complaints from the public;
 - Daily site inspection reports;
 - Maintenance schedules and records;
 - Daily log of extra-ordinary events at the site including rejected waste loads;
 - Non-conformances to the mandatory and voluntary standards; and
 - Records of training.
- 6.2 All records will be held electronically and be available to the relevant authorities on site.

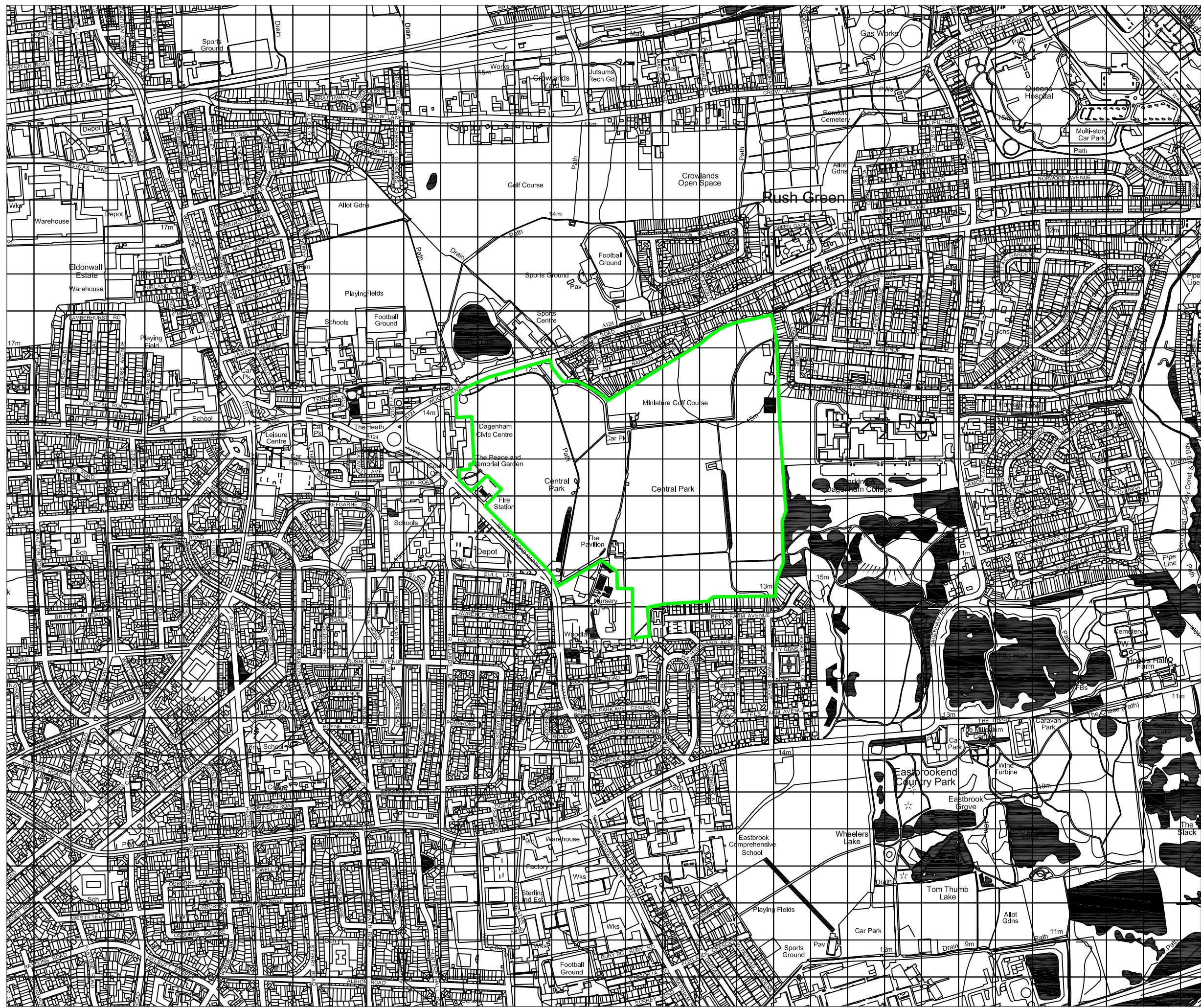
Reporting

- 6.3 Within one month of the end of each quarter, the Operator will submit to the Environment Agency the tonnages of the waste received and recovered, as well as any waste to disposal as necessary.
- 6.4 Any other requirements of the permit will be reported accordingly. This will include:
- Notification when plant has broken down resulting in a potential to pollute;
 - When a condition of the permit has been breached; and
 - When a limit in the permit has been breached and there is considered significant adverse impact.

Schedules

Schedule 1.0 Process Operations		
Activity	Description	Limits of waste
Recovery of waste by deposit	R5 - Reclamation of inorganic compounds.	Up to 50,000 cu m of waste may be stored at any time. Permitted waste types set out in Schedule 2.0.
	R10 - Use of inorganic waste for construction.	
	R13 - Storage pending onward recovery.	

Schedule 2.0 Permitted Wastes	
Waste code	Description
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and Ceramics
17 01 07	Mixtures of the concrete, bricks, tiles and ceramics
17 05 04	Soil and stones
20 02 02	
01 01 02	Wastes from mineral non-metalliferous excavation
01 04 08	Waste gravel and crushed rocks
01 04 09	Waste sand and clays
19 02 06	sludges from physico/chemical treatment (limited to soil washing fines only)
19 12 09	Minerals from waste facilities
19 13 02	Solids from soil remediation (limited to soil washing fines only)



Key:

■ Site Boundary

Rev.	Details	Drawn	Date
		Chkd.	

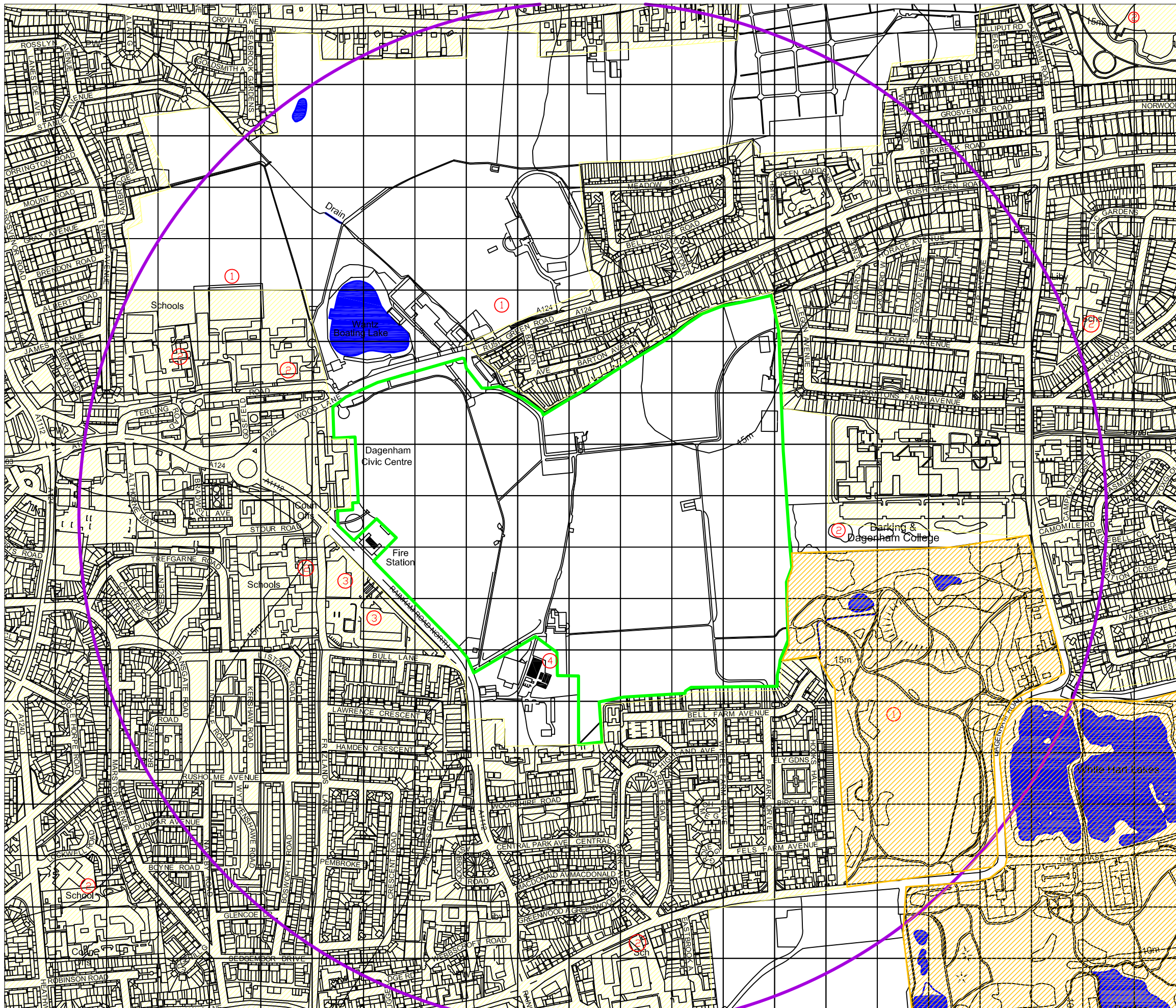
Project
 183185
 Central Park Dagenham

Title
 Site Location Plan



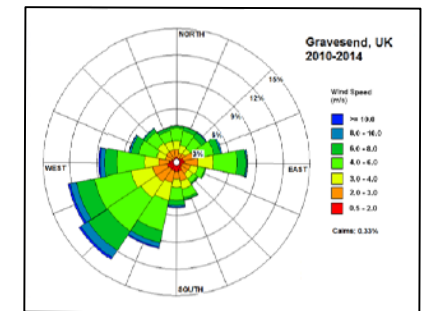
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Scale	Date	Dec'18		Drg. No.	Rev.
		Drawn	Chkd.		
1:10,000@A3	IM	EB		183185/D/001	

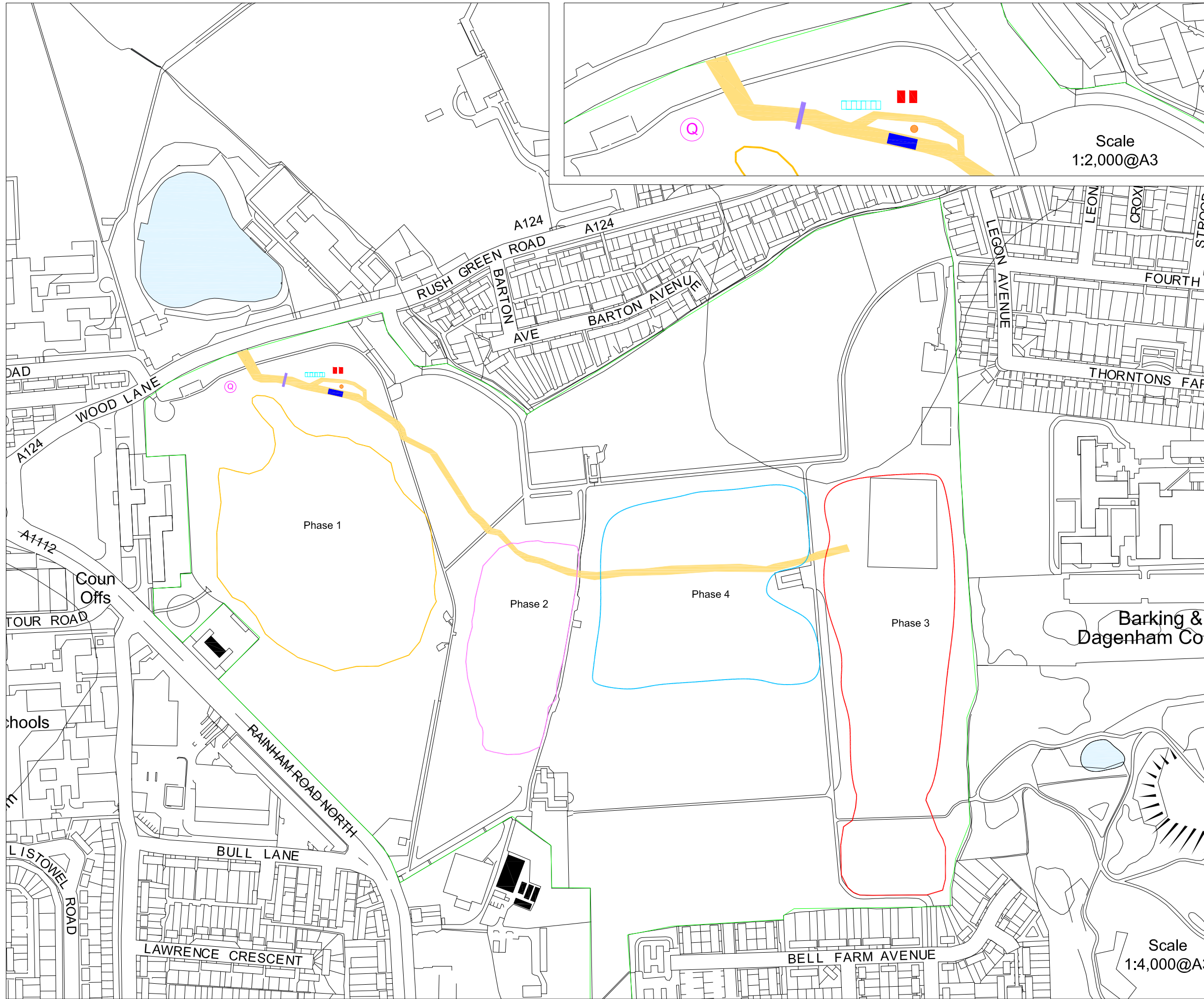


- Key:**
- Site Boundary
 - 1 km Radius
 - Water Bodies
 - Residential
 - Local Nature Reserve
 - ① Recreational
 - ② Education & Health
 - ③ Industrial & Commercial
 - ④ Dagenham Farm (Greenhouses)

Notes:
Gravesend Windrose: 2010-2014



Rev.	Details	Drawn Chkd.	Date
Project			
183185 Central Park Dagenham			
Title			
Site Receptor Plan			
 AA Environmental Ltd Units 4-8 Cholswell Court Shppon Abngdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-lp.com www.aae-lp.com			
Scale	Date	Drg. No.	Rev.
1:7,500@A3	Dec'18	183185/D/002	
Drawn	Chkd.		
IM	EB		



Key:

- Site Boundary
- Access Gate
- ⊙ Quarantine Area
- Staff Parking
- Staff Facilities
- Ticket Office & Inspection Point
- Wheel Wash
- Haulage Route

Notes:

1. For the final design, contours and fill depths refer to drawings WD808 and WD809.
2. The permanent drainage works will commence as soon as practicably possible during infilling to use for construction surface water collection and control.
3. There is no fixed plant on site. Type and frequency of mobile plant will be changed based on operational requirement.
4. The maximum stockpile height will be set at 3 m above ground level.
5. Mobile plant and loading and unloading activities will operate in areas of waste deposit.
6. All suppression is mobile. All spray heads/cannons can be easily positioned. All stockpile heights will be lower than the spray arc coverage.
7. Any internal haul routes will be surfaced by compacted hardcore. Locations of routes may change dependant on working area/ programme.
8. Each phase and haul route will be temporarily secured using heras panels during operations.

Rev.	Details	Drawn Chkd.	Date
Project 183185 Central Park Dagenham			
Title Site Layout Plan			
AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-llp.com www.aae-llp.com			
Scale As shown	Date June'19	Drng. No. 183185/003	Rev.