Vantage Construction Environmental Management Plan CEMP.

(Construction Sustainability, Environmental and Energy Plan.)

Document code FM-SUS-0400-02
Revision 04

Project Name:	Vantage DUB 11 and 12 Project
Project No.:	0913
Project Lead	Joe Brady
Director in Charge of Project	Fergal O Neill

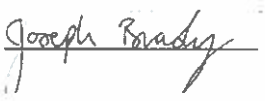
Revision control

Rev No	Date issued	Prepared by	Approved by	Comments
00	November 2020	SJ Davies	W Metcalfe	1st Issue

Revision log

Rev No	Details
00	1st Issue

Plan revision control

Rev No	Date issued		Prepared by		Approved by	Comments
00	14/10/2022	Name Sign	Kieran Colleran / Joey Martyn	Name Sign	Fergal O Neill	
01	16/12/2022	Name Sign	Kieran Colleran / Joey Martyn	Name Sign	Fergal O Neill	
02	18/01/2023	Name Sign	Ian Thompson	Name Sign	Joe Brady	
03	24/01/2023	Name Sign	Ian Thompson	Name Sign	Joe Brady	
04	30/01/2023	Name Sign	Ian Thompson 	Name Sign	Joe Brady 	

Plan revision log

Rev No	Details
00	1st Issue07/11/2022 - PCSA

01	2nd Issue 16/12/2022 – Updated to Ramboll Comments
02	3rd Issue to include Ramboll comments and general updates
03	4th issue. Project number updated, Ramboll comment from SWMP review included in Section 2.3
04	5th issue. Updated Sections 2.3, 4.1, 6.17, 10.0 and Traffic Management Plan

Note: this Project CEMP (Sisk SEEP) must be reviewed every 3 months or where there are substantial changes to project programme and impacts; whichever comes sooner. If, upon review, no changes are required, a signature and date (even handwritten) in the revision log will be sufficient record.

Contents

1 Introduction

This Construction Environmental Management Plan (CEMP) which is written in the format of the Sisk Project Sustainability, Energy and Environmental Plan (Project SEEP), sets out how Sisk will plan to and achieve the highest level of Sustainability, Energy and Environmental performance on the Vantage DUB11 and 12 Project at Profile Park, Dublin. This document has been prepared in reference to planning permission reference SD21A/0241 and planning condition 17 (b) which the CEMP has been prepared to discharge shall be made.

2 Project Details

2.1 Project Details

Project Details:	
Contract Name:	Vantage DUB 11 and DUB 12
Project Description:	*"The development applied for consists of the demolition of the abandoned single storey dwelling and associated outbuilding (206sqm); and the construction of 2 no. two storey data centers with plant at roof level of each facility and associated ancillary development that will have a gross floor area of 40,589sqm that will consist of the following* *- 1 no. two storey data center (Building 11) that will be located to the south of the site and will have a gross floor area of 24,667sqm. It will include 22 no. emergency generators located at ground floor level within a compound to the western side of the data center with associated flues that will be 22.3m in height;* *- 1 no. two storey data center (Building 12) that will be located to the north of the site, and to the immediate north of Building 11 and will have a gross floor area of 12,915sqm. It will include 11 no. emergency generators located at ground floor level within a compound to the western side of the data center with associated flues that will be 22.3m in height;* *- Each of the two data centers will includes data storage rooms, associated electrical and mechanical plant rooms, loading bays, maintenance and storage spaces, office administration areas, and plant including PV panels at roof level as well as a separate house generator for each facility that will provide emergency power to the admin and ancillary spaces. Each generator will include a diesel tank and there will be a refuelling area to serve the proposed emergency generators;* *- The overall height of each data center apart from the flues and plant at roof level is c. 14.23m above the finished floor level;* *- Construction of internal road network and circulation areas, with main entrance off Falcon Avenue to the south, as well as a secondary*

vehicular access off Legacy Drive to the south-west, both from within Profile Park; footpaths, provision of 144 no. car parking spaces, and 66 no. cycle parking spaces;
- Single storey step-up substation (38sqm) as well as 2 no. single storey switch substations (121sqm);
- AGI Gas Regulator compound that include 3 no. single storey buildings (134sqm);
- Construction of a gas powered generation plant in the form of a 13m high single storey building with a gross floor area of 2,714sqm that will contain 10 gas generators with associated flues that will be 25m in height, and grouped in pairs and threes. The Gas Plant will be located to the west of Building 11;
- Ancillary site development works, that will include reorientation of the Baldonnel Stream, biodiversity management initiatives, attenuation ponds and the installation and connection to the underground foul and storm water drainage network, and installation of utility ducts and cables, that will include the drilling and laying of ducts and cables under the internal road network within Profile Park. Other ancillary site development works will include hard and soft landscaping, lighting, fencing, signage, services road, entrance gates, sprinkler tanks and pump room; and
- A temporary gas powered generation plant within a fenced yard containing 21 no. generator units in containers, each with associated flues (each 25m high), 12 transformers and 10 containers of controls to be located to the west of, and associated with the first phase of Building 11, and will be required for a period of up to 2 years if connection to the national grid is delayed. This temporary plant will not be built if the connection to the national grid is in place prior to the operation of Building 11.
The development will be accessed from Falcon Avenue and Legacy Drive from within the Profile Park Business Park that contains an access from the New Nangor Road (R134).
The Significant Further Information / Revised Plans includes a revised site plan that has modified the location of Buildings 11 and 12 within the site that enables the stream to remain in its current alignment within an enhanced riparian strip; amendment to the gross floor area of the entire development to 41,405sqm; revised EIAR that includes new photomontages; revised car parking layout; additional SUDS measures, attenuation and green infrastructure; as well as revised landscaping. It also includes a modification to the nature and use of the Gas Plant to a Multi-Fuel Generation Plant, which includes breaking it into two components and increasing its 11 no. flues to being 30m in height; and that its primary purpose is now to reinforce the national grid. In summary, the proposed development, as amended under the AI response, would comprise the following:
- Demolition of the existing single-storey dwelling and outbuilding, approximately 206 m2;

	- Erection of the two data centers along with associated emergency generators and flues with a gross floor area of approximately 41,105 m2; *- Provision of 137 car parking spaces and 66 bicycle parking spaces provision; and* *- Construction of a Multifuel Generation Plant (MFGP) with underground fuel storage beneath each block.*		
Site Address:	Profile Park, Clondalkin Dublin		
Start Date	04/01/2023	**Duration:**	TBC
Programme milestones:			

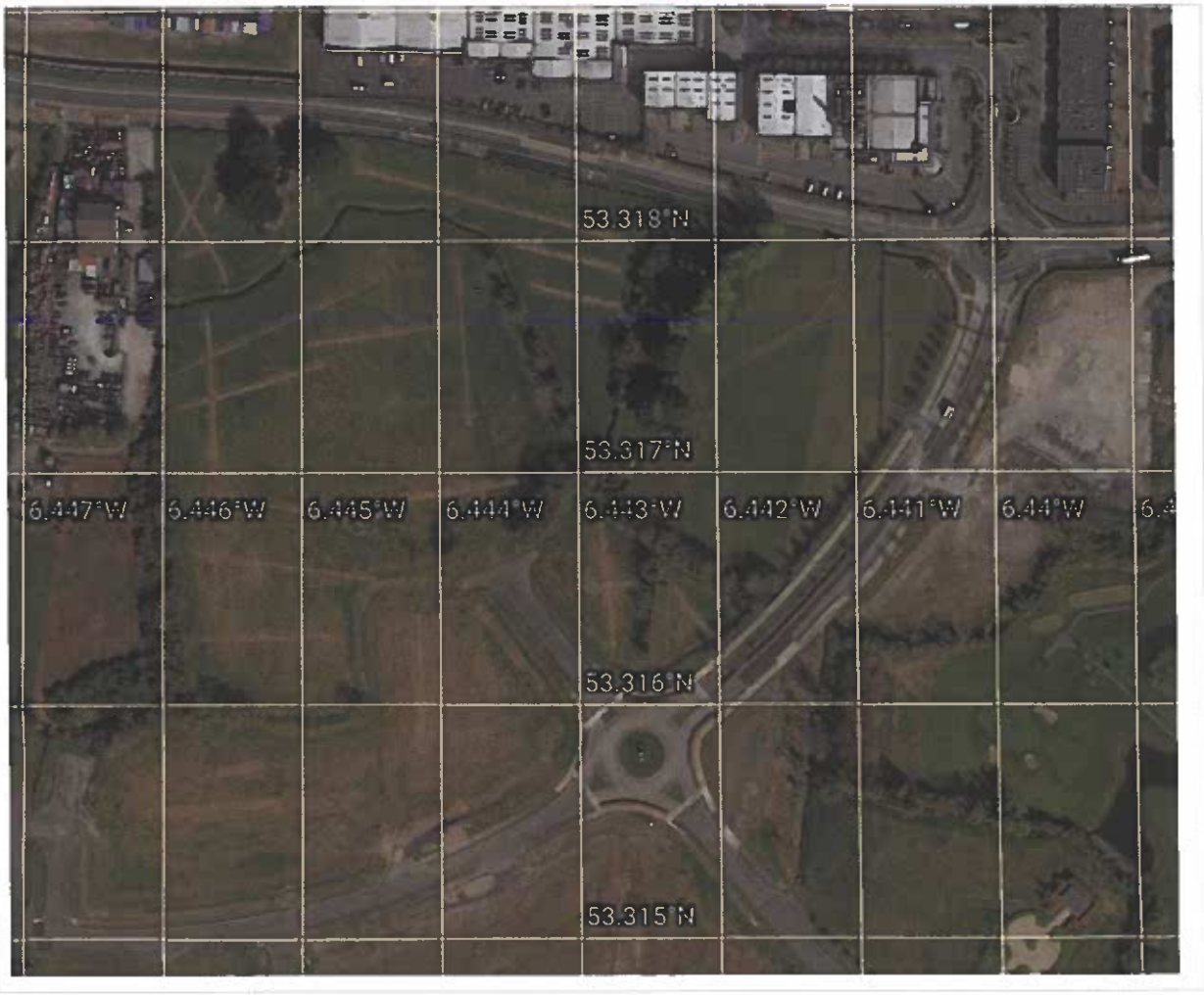
Summary of the significant project Sustainability and Environmental requirements:

Company Env KPI's in place.

- Reduce the amount of construction waste generated on site,
- Reduce waste to landfill,
- Reduce the carbon footprint of onsite energy use on the project,
- Reduce the amount of potable water used,
- Ensure that project activities do not result in any adverse effects to pre-existing air, water or soil quality,
- Achieve the target Considerate Constructors Scheme score

2.2 Site Location:

Located within Profile Park off the New Nangor Road, Kilcarbery, Co Dublin
53°18'57.6"N 6°26'34.5"W
53.315991, -6.442915



2.3 Site Layout

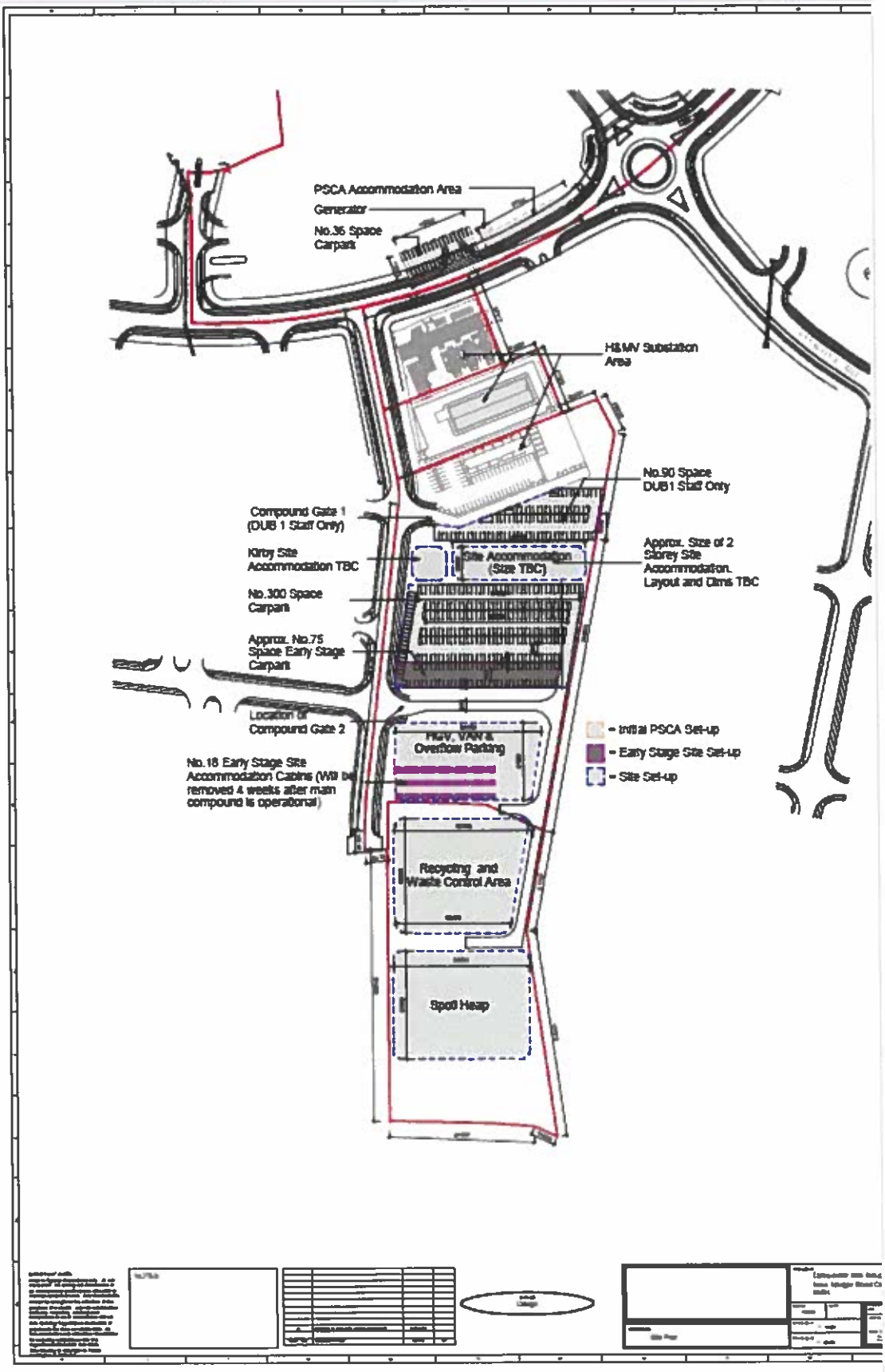
Insert Details and Plan of Compound:

Due to the staging of the project there will be two compounds for the project. For the purpose of this plan the are summaried as follows.

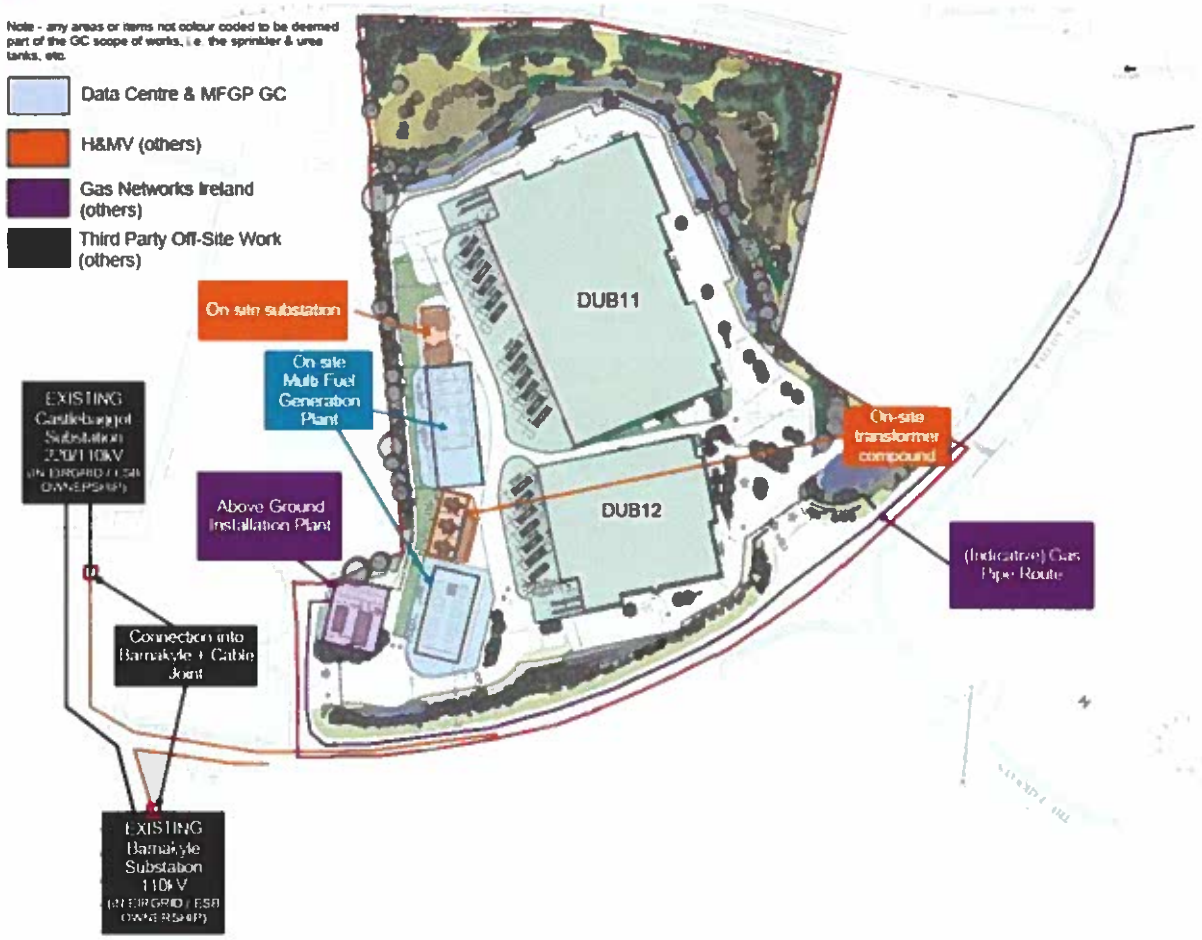
1. Enabling works compound this will be in place from January 2023 to end of February 2023. A client appointed archaeologist will provide archaeological monitoring to all groundworks within the main site area.

2. Main site set up for the construction. This will be in place from March 2023 and will have an overlap with the enabling works set up. This compound is located on lands owned by the client. Groundworks will not extend more than 400mm BGL to faciliate the use of this area as a temporary construction compound, parking and storage. A client appointed archaeologist will clear the area prior to the start of any works on this temporary accomodation area. During the groundworks noted above archaeological monitoring will

be maintained by the client appointed archaeologist.



2.4 Site Zones and Dedicated Areas



For the purpose of efficient management, the project will be split up into the following zones:

Zone Reference:	Zone Details:	Zone Active:	Responsible Manager:	Comments:

PCSA	Site wide		Joe Brady	
Enabling Works	Site wide and area east of Casement Rd for site compound, car/ van / lorry parking. Site facilities		Kieran Colleran	
DUB 11	DUB 11.1 & DUB 11.2		Ian Thompson	
DUB 12	DUB 12		Joey Martyn	
Site wide Services	Site wide		John Staunton	
MFGP North	MFGP North		Shane O Neill	
MFGP South	MFGP South		Shane O Neill	
Substation, TX and switch rooms associated with MFGP	Substation, TX and switch rooms associated with MFGP		Mark Thornton	

3 Responsibility for Sustainability and Environmental matters

3.1 Sisk Project Personnel

An organisation chart detailing all Sisk project team members and their responsibilities is attached to this Plan.

Role:	Name:	Phone No:	E-Mail address:
Business Unit Managing Director	Owen Sisk	086 220 0730	owensisk@sisk.co.uk
Director in Charge	Fergal O Neill	086 387 7983	f.oneill@sisk.ie
Project Lead	Joe Brady	086 894 2033	j.brady@sisk.ie
Site Manager.	Richard Sheahan	086 262 2992	r.sheehan@SISK.ie

Project Environmental Champion	Ian Thompson	086 1099 499	i.thompson@sisk.ie
Project Energy Coordinator	Mark MacDonnell	086 851 9010	m.macdonnell@sisk.ie
Project CCS Champion(s)	Priyon Paul	089 251 2400	p.paul@sisk.ie
Project Social Value Champion	Priyon Paul	089 251 2400	p.paul@sisk.ie
Community Liaison	Kieran Colleran	086 265 7805	k.colleran@sisk.ie
Environmental Emergency Coordinator	David Bryce	087 250 2744	d.bryce@sisk.ie
Other: please specify			

3.2 Package Responsibilities

The scope of works is divided into packages as identified in the table below.

Package:	Sisk Package Manager:	Comments:
Site / civil works DUB 11 and 12	John Staunton	
Steel & Envelope	Kieran Colleran	
Architectural Finishes	Joey Martin	
MEP OFCI	Mark MacDonnell	
Fit out	David Bryce	
MFGP	Shane O Neill	

4 Sustainability and Environmental Aspects and Impacts

4.1 Consents, Permits and Compliance Obligations

It may be necessary for the project to demonstrate performance against client, contract, planning, legislative, or other compliance obligations. Where such obligations or requirements are required, they shall be detailed in the following table.

FM-SUS-0400-02 Project Sustainability Environmental and Energy Plan

Permit / Project Requirement:	Sisk Responsible Person:	Expiry Date	Compliance Date:	Comments:
The site and building works required to implement the development shall only be carried out between the hours of: • Mondays to Fridays – 7.00am to 7.00pm • Saturday – 8.00am to 1.00pm Sundays and Public Holidays – No activity on site	Ian Thompson	Until project end	On-going	Planning Permission Condition: **18(4) – SD21A/0241** Any work outside of standard site hours by derogation from SDCC only
Temporary traffic disruption	Joey Martin	Until project end	On-going	Planning Permission Condition: **10 – SD21A/0241** Deliveries and removals should be scheduled to take place out of peak hours when congestion on the local road network is lower. Implementation of a traffic management plan. Adequate onsite vehicle marshalling facilities will be provided to avoid vehicles queuing outside of the site boundary. Adequate signage will be erected to notify pedestrians, cyclists and non-motorised users with Profile Park. Speed limits of 15 km/h upon entry to site will be implemented. Existing footpaths surrounding the site to be maintained.
To prevent the spillage or deposit of clay, rubble or other debris on adjoining roads during the course of the works	Richard Sheehan	Until project end	On-going	Planning Permission Condition: **NOTE after 19 – SD21A/0241** On site wheel washing facilities to be installed. Road sweeping as required to Profile Park internal roads.

Noise levels arising from construction activities shall not be so loud, so continuous, so repeated, of such duration or pitch or occurring at such times as to give rise to a noise nuisance affecting a person in any premises in the neighbourhood.	Ian Thompson	Until project end	On-going	Planning Permission Condition: **18(1) – SD21A/0241** First daily action level 65dB LAeq 10hr Installation of noise monitoring meters. Installation of 2.4m site hoarding. Agreement of working hours with SDCC Selection of silenced and well-maintained plant conforming with EU directives. Regular plant maintenance.
During the construction / demolition phase of the development, Best Practicable Means shall be employed to minimise air blown dust being emitted from the site	Ian Thompson	Until project end	On-going	Planning Permission Condition: **18(7) – SD21A/0241** Dust levels to be as per the EPA threshold limit of 350mg/m^2/day Installation of Berghoff gauges. Dust suppression techniques, such as damping down, use of temporary screens and covering of stockpiles.
Best practice should be implemented at all times in relation to any activities that may impact on surface water or riparian habitats. Any discharges to surface streams present on or near the site must not impact negatively on the system.	Ian Thompson	Until project end	Application pending	Planning Permission Condition: **17(a) – SD21A/0241** Discharge licence and monitoring to be in place. Provision of on-site pollution control kits. Use of settlement system and bunding prior to discharge. Frequent use of a sweeper during construction programme on tar roads.

				Significant earthworks, works near water will not take place if storm rainfall events are predicted. Installing of bunding / silt fencing to prevent contamination of surface water system. Appropriate storage of fuels potentially hazardous within a secure site compound and bund.
Submit a site-specific Construction Environmental Management Plan (CEMP)	Ian Thompson	Until project end	Issued	Planning Permission Condition: **17(b) – SD21A/0241**
Construction works are planned in a manner which prevents extensive tracts of soils from being exposed at any time and arrangements must be made for the control and management of any contaminated water resulting from construction.	Owen Joy	Until project end	On-going	Planning Permission Condition: **17(c) – SD21A/0241** Sequencing to be arranged such that soil is only exposed as areas are completed to foundation level. Silt fences to be installed to protect surface waters adjacent to exposed soil areas.
Ecology – Tree removal works.				Planning Permission Condition: **11 (iii) & (v) – SD21A/0241** Works to be carried out in accordance with Profile Park, Data Centre, Arboricultural Impact Assessment. Works to remove trees to be undertaken outside of the bird breeding season of March to August in the event that nesting birds are encountered. (01 March to 31 August). Bird surveys to be undertaken prior to construction works commencing. If breeding birds are identified within the site at this time, species specific buffers will be implemented

				to protect nesting birds during construction Care to be taken not to damage roots of adjacent tress if they are to remain. Works to be undertaken by tree surgeon. Planning authority to be informed of the appointment of Arborist prior to commencement of construction activity.
Ecology – Tree protection				Planning Permission Condition: **11 (iii) & (v) – SD21A/0241** Works to be carried out in accordance with Profile Park, Data Centre, Arboricultural Impact Assessment. Tree protection fencing to be installed as per tree protection plan, drawing number 'PFP002'. Protection to be inspected on a regular basis and shall remain until heavy building and landscaping works have finished and removal is authorised by the project Arboriculturist. As part of initiating works, crowns of some trees being retained are to be pruned. Edges which are remaining will require trimming. **Works to be carried out by qualified tree surgeons before construction commences.** Prior to installation of any services routed near trees or hedges, services are to be marked out on site for review by the project Arboriculturist and detailed MS to be prepared by contractor. Planning authority to be informed of the appointment

				of Arborist prior to commencement of construction activity.
Ecology	Ian Thompson	Until project end	On-going	Planning Permission Condition: **10 – SD21A/0241** Directional lighting will be installed in the site to minimise light overspill to the adjacent woodland habitat. To comply with best practice guidelines Badger and otter surveys will be carried out immediately prior to construction work commencing to check whether any holts or setts have been established within the potential disturbance zone of the proposed development. Complete 13/12/22 with no activity discovered. Breeding birds - where works are to commence during the breeding season (March to August inclusive), bird surveys should be undertaken prior to the initiation of construction work for removal of vegetation (not just trees i.e. hedgerow). If breeding birds are identified within the site at this time, species-specific buffers will be implemented to protect nesting birds during construction. Planning authority to be informed of the appointment of Ecologist prior to commencement of construction activity.
Workers exposure to contamination	Ian Thompson	Until demo end	On-going	Planning Permission Condition: **10 – SD21A/0241**

				Completion of asbestos surveys and removal of all identified asbestos materials by a specialist contractor as part of demolition works. Correct use of PPE during excavation works.
Submit a developed Construction & Demolition Waste Management Plan (C&DWMP)	Ian Thompson	Until project end	Issued	Planning Permission Condition: **4 (4) – SD21A/0241** SWMP issued to Ramboll
Waste Management	Ian Thompson	Until project end	On-going	Preparation and implementation of SWMP. Wate to be managed through Sisk's online waste and environmental reporting tool – SMARTWASTE. Waste minimisation at source, with segregation and recycling of waste generated. All solid wastes arising on the site shall be recycled as far as possible. Materials exported from the site for recovery, recycling or disposal shall be managed at an approved facility.
Nearby Residential Properties	Ian Thompson	Until project end	On-going	Planning Permission Condition: **10 – SD21A/0241** Agreeing working hours with the SDCC. Undertaking regular road sweeping. Arranging and locating potentially high impact site activities and plant away from neighbouring receptors. Selecting quiet plant and regularly maintaining plant. Implementing good site housekeeping measures. Directing site lighting away from sensitive receptors. Turning site lighting off outside of normal working hours.

				Screening scaffolding and active construction activities above hoarding levels, where practical. Implementing construction traffic management measures as agreed with SDCC. Implementing and monitoring noise and vibration measures. Using temporary acoustic barriers around potentially noisy activities, as required. The contractor in consultation with Linesight and Vantage will put in place a Communications Management Plan which will provide a two-way mechanism for members of the public to communicate with the site and vice versa.
Archaeology				Planning Permission Condition: **8 (a), (b) & (c) – SD21A/0241** The developer shall employ a qualified Archaeologist, licensed to carry out Archaeological Monitoring of all ground disturbance / sub-surface works carried out within the proposed development site. This will include the archaeological monitoring of the removal of topsoil, the excavation of trenches for foundations, services, access roadway, etc. associated with the proposed development.
Aviation Risk Management				Planning Permission Condition: **10 – SD21A/0241** Construction Bird Hazard Management Plan to be completed based on the conclusions of the Aviation

				Wildlife Impact Assessment report.
Vibration impacts on local buildings				The construction techniques proposed are considered unlikely to result in significant vibration impacts but the need for vibration monitoring and/or setting of vibration action levels will be discussed and agreed with SDCC as required

4.2 Environmental Aspects

Specific environmental aspects and impacts have been considered for this project. The key high risk activities are detailed in the following table.

The high risk aspects will be reviewed and updated every three months or when there are significant changes to project operations; whichever comes soonest.

A summary of identified high risk or consented activities is set out below:

Summary Aspect / Impact:	Consent or Control:	Mitigation Measures:	Review period:
Dust generated from site	Dust to be minimised in both internal and external environments.	To be kept to a minimum at all times. Action to be taken should circumstances change.	Daily
Waste Management	All waste removed from site must be controlled.	Segregated skips to be available on site. Skips to be checked prior to removal to limit cross-contamination. All waste leaving site is logged on Waste Dispatch Log	As required and SmartWaste updated monthly
Soil Waste Management	All soil is anticipated to be recycled on site.	As the site has a 'fill' requirement, subject to Engineers approval and soil testing all 'cut' materials on site are to be recycled in areas where 'fill' is required.	Weekly

Spill	All spills to be reported on Airsweb and location included.	All plant and equipment will be mechanically sound and operated and maintained in accordance with the manufacturer written recommendations to prevent oil leaks. Only properly certified, self bunded metal units will be used for storage of fuel on site. Appointed area for refuelling and spill kits to be available there. Spill kits must be available in areas where plant are being used.	Daily and during fortnightly env inspections.
Noise, Dust & Vibration	Construction methodology to be selected to reduce noise and vibration at the boundary	Noise monitoring will be set up at the boundary and particular care taken during rock-breaking, piling operations. Not to exceed the construction noise limit of 65 dB LAeq 10hr. Dust monitoring to be in place for the duration and reviewed against EPA guidance threshold limit. Vibration monitoring to be discussed with SDCC as per EIA mitigations	Monthly

5 Project Aims: Sustainability - Environmental Objectives and Targets

Objective:	Target:	Action taken to achieve target:	Person Responsible:	Deadline:
Environmental Audit Score	93%	Completion of Aspects Register for project Regular environmental audits conducted by Project environmental champion	Env Champion / Project Lead	On-going

Diversion from Landfill rate	95%	Waste to be segregated at point of work Segregated waste skips to be provided onsite Materials to be ordered on an as needs basis for the project. Earthworks As the site has a 'fill' requirement, subject to Engineers approval and soil testing all 'cut' materials on site are to be recycled in areas where 'fill' is required.	Env Champion	On-going
Waste intensity rate	1.3t / €100k	Materials ordered on an as needs basis. Re-use of existing materials where available Segregation of recyclable materials	All Parties	On-going
Reduced potable water consumption	4m3/€100k	Water meter to be installed. Re-use of water for dust suppression.	All parties	On-going
Responsibly sourced timber	100%	Use of certified suppliers for sourcing of timber Communication of requirements to subcontractors at pre-appointment stage	Sisk / Contractors	On-going
Being a Considerate Constructor	42	Develop CCS Action Plan and implement. Develop CCS evidence document prior to first visit.	Site Team	Duration of project
Zero environmental incidents	0	Provide environmental training to site team and sub-contractors through monthly toolbox talks.	All parties	Duration of project
Zero environmental complaints	0	Provide environmental training to site team and sub-contractors through monthly toolbox talks.	All parties	Duration of project
Zero regulatory notices	0	Provide environmental training to site team and sub-contractors through monthly toolbox talks.	All parties	Duration of project
Community engagement events	2 per year	Identify local community activities in which the project can engage.	Social Value Champion	On going
Other project or client specific – add to list	N/A	N/A		

6 Arrangements for Managing the Project Sustainability and Environmental Aspects

6.1 Site Rules

6.1.1 Project specific sustainability and site rules

Site rules are available to everyone on the project and will be communicated to all workers on this project during the online induction, site Orientation, posters/information sheets prominently displayed on site and site briefings.

Compliance with specific sustainability and environmental rules are often based on legal requirements, consents and permits and must be fully observed.

Specific guidance, applicable to all Sisk projects as well as subcontractors can be found in GD-SUS-0900-01: Sustainability Compliance Booklet. This is included in Appendix 3

Project specific rules including any consent or permit conditions:
All personnel to complete the Sisk Site induction. The Vantage project specific rules to be followed.

6.1.2 Site Induction, Orientation and Training

Sisk Induction and Orientation Procedure will be complied with. Additional arrangements will be included in the site-specific orientations.

All persons working on this project will have received an online Induction before arriving on site. Visitors and delivery drivers do not receive the online Induction.

Having received the online Induction, every person must receive a Site Orientation before starting work on site and that will include details of any project specific environmental or sustainability constraints e.g. legal requirements, etc.

Site Orientations will be given as follows:	
Day Orientation will be carried out	Monday - Thursday
Time Orientation will be carried out	08:30
Location for Orientations	Site Induction Room
Site Orientations will be presented by	Terry Sheridan
Delivery Drivers Orientations will be presented by	Site Security or Gate man
Visitors Orientations will be presented by	Site Security or person visitor is meeting

It is the responsibility of each employer to make available their workers for Orientation at these days/times given above. Any Orientations outside these times will only be carried out with agreement and availability of Sisk personnel.

6.2 Key Stakeholders

6.2.1 Introduction

The interface between key stakeholders and the project team is vitally important to the efficient operation and organization of the project as well as protection of the environment and delivery of sustainability objectives. The following key sustainability and environmental stakeholders have been identified in relation to this project: *(Consider: - local adjacent business's; adjacent resident(s); community group; local shop/college; other sensitive receptor; regulatory agency).*

Organisation:	Main Contact:	Contact details:	Nature and reason for relationship:
Vantage	Colm Fagan	colm.fagan@vantage-dc.com	Client Construction Director
Linesight	Pat Unger	pat.unger@vantage-dc.com	Client Campus Mangers
Linesight	Michael Kennedy	Michael.kennedy@vantage-dc.com	Client Campus Mangers
John Sisk & Son Ltd	Fergal O Neill	f.oneill@sisk.ie	PSCS DIC
John Sisk & Son Ltd	Joe Brady	j.brady@sisk.ie	PSCS Project Lead
John Sisk & Son Ltd	Richard Sheehan	r.sheehan@sisk.ie	PSCS Site Agent
John Sisk & Son Ltd	Terry Sheridan	t.sheridan2@sisk.ie	Health & Safety Lead
John Sisk & Son Ltd	Ian Thompson	i.thompson@sisk.ie	Project Environmental Champion

6.3 Air Quality

Details project specific risks and controls (if applicable):
This section constitutes the dust management plan for the project which takes account of all construction activities. It adheres to the Building Research Establishment document Control of Dust from Construction and Demolition Activities. This control plan takes account of the type of construction activity being carried out in conjunction with but not limited to environmental factors including levels of rainfall, wind speeds and wind direction.

- The Environmental Champion will be appointed as the liaison officer for dust minimisation and control for the duration of the works.
- Hard surface site roads will be swept to remove mud and aggregate materials from the surface while any un-surfaced roads will be restricted to essential site traffic only.
- Any road within site and off-site areas that has the potential to give rise to dust will be regularly watered, as appropriate, during dry and/or windy conditions.
- Vehicles using temporary roads will be restricted to 15 km per hour on any un-surfaced site road and on hard surfaced roads to suit the particular site conditions.
- Vehicles delivering or removing materials to site and off-site areas which present a risk of spillage of materials likely to give rise to dust or with dust potential will be enclosed or covered with tarpaulin to restrict the escape of dust and or prevent spillages where appropriate. Skips will also be covered where appropriate. Public roads outside the site and off-site areas will be regularly inspected for cleanliness, and cleaned as necessary.
- Water misting or sprays will be used as required if particularly dusty activities are necessary during dry or windy periods.
- The site will be set up to minimise movement of plant and material, thereby reducing site road degradation and dirt generation.
- Areas where materials will be handled and stockpiled will be positioned away from main site access roads, pathways and surface water bodies. These areas will also be designed to minimise their exposure to wind – all stockpiles shall be kept to the minimum practicable height with gentle slopes.
- Daily vehicle checks to be undertaken by machine drivers. These will be stored in Sisk office.
- Dust monitoring will be carried out in accordance with VDI 4320 – 2010 Part 1. Berghoff dust deposit gauges will be installed to collect samples at the designated locations. The limit applied for the project will be the EPA guideline threshold of 350 mg/m^2/day.
- Water will be used to ensure dust is dampened for rock breakers, concrete saws or any other dusty operations. This will be the primary dust mitigation measure in the first instance when drier weather causes dust issues.
- **Dust will be monitored through monitoring stations located below. This data will be communicated to the relevant personnel on site. If the limits are exceeded notification will be sent to the relevant personnel so that action can be taken to ensure works are not exceeding agreed limits.**

Area where monitoring stations to be installed.

6.4 Archaeology & Architecture (Heritage)

Details project specific risks and controls (if applicable):
The applicant/owner/developer shall employ a qualified Archaeologist, licensed to carry out Archaeological Monitoring of all ground disturbance / sub-surface works carried out within the proposed development site. This will include the archaeological monitoring of the removal of topsoil, the excavation of trenches for foundations, services, access roadway, etc. associated with the proposed development. The planning authority is also to be informed of the appointment of Archaeologist prior to commencement of construction activity.

If any unexpected archaeological finds are discovered during construction works Sisk will stop work immediately, quarantine the immediate area and inform the Local Authority archaeological officer and/or Police/Gardaí and seek direction on how to proceed.

6.5 Chemical Storage and Management

Details project specific risks and controls (if applicable):
Designated secure exclusion zone will be in place for storage of all hazardous materials (paints, chemicals, gas, etc.). Safety data sheets for materials therein will be available. Onsite storage of all liquids will be kept to a minimum. All materials (hazardous and non-hazardous) will be clearly labelled. All materials and spill-risk activities will be restricted to the least sensitive part of site, greatest distance from surface waters, drainage, etc. Only properly certified, self-bunded metal units will be used for storage of fuel on site. All liquid containers, static and mobile fuel units,

generators and associated hoses will be contained in proper impermeable bund or contained in spill pallet / tray. Such containment will have capacity of the greater of either: 110% of the largest container within, or 25% of the total volume of materials storage capacity within. A designated area for refuelling will be set out onsite and a spill kit will be readily available close by. An authorised waste collection company will be employed to clean contents of all bund facilities as required. No such material will be released to land or drain. All bunded facilities will be subject to routine inspection to ensure integrity. Only approved fuel containers (jerry cans) will be used to hold smaller volumes of fuel. The Environmental Champion / Project Lead will also report on any incidents such as spills or leaks and how such incidents were dealt with to mitigate environmental impacts.

Do

- ✓ Ensure fuel and oil containers are stored within a secondary containment system, such as a bund, that meets the legal requirements.
- ✓ Ensure the base and walls of the bund are impermeable to oil.
- ✓ Ensure any fill/draw off pipe penetrating the wall of the bund is sealed to prevent oil escape.
- ✓ Ensure the secondary containment is covered to prevent the ingress of rainwater.
- ✓ Ensure oil and chemical storage areas are secure with controlled access and clearly marked.
- ✓ Ensure tank pipes, hoses, pumps, taps and valves are situated within the secondary containment and locked when not in use.
- ✓ Regularly check tanks and bund containers for damage and leaks.
- ✓ Ensure only trained and competent individuals undertake refuelling activities.
- ✓ Place a plant nappy or drip tray under all plant during refuelling.
- ✓ Ensure a spill kit and plant nappy is located near fuel storage and refuelling areas.
- ✓ Use a funnel when fuelling small plant.
- ✓ Ensure all fuel and oil containers are kept tightly sealed, including oil that is waiting for disposal.
- ✓ Store materials in suitable containers that are labelled appropriately with fitted lids, taps and tops in good condition.
- ✓ Store materials, tanks and drums to guard against impact, breakage, vandalism or theft.
- ✓ Ensure all oil, fuel and chemicals are returned to their designated storage area at the end of the shift.
- ✓ Protect stores against flood damage or inundation.

Don't

- × Pour or use detergent to wash waste fuel or oil down drains, take it to a dedicated oil store or use the spill kit to clean it up.

- × Store oil and fuel or carry out refuelling within 10 m of a watercourse or drain or within 50 m of a well or borehole, or within the catchment of a live gully.
- × Locate fuel and oil tanks near to vehicle routes.
- × Leave a tank to fill unsupervised.
- × Store oil drums on drip trays; this is not secondary containment.
- × Make an opening in the secondary containment to drain the bund.

6.6 Community

A Project Community Liaison representative will be assigned on the project. Regular communications with the community and local site neighbours will be conducted as detailed below:

Method of Communication	Frequency
Primary contact with local neighbours / stakeholders will be by Vantage. Sisk will engage on any observations received in person and inform Vantage of same	As required

Details project specific risks and controls (if applicable):
Sisk will respect all site neighbours by proactively addressing any concerns. All work will be carried out with positive consideration to the needs of neighbours and the general public. At all times during construction, we will protect the privacy of neighbours and ensure that all site personnel, plant and equipment; including that of all subcontractors, suppliers and visitors will not trespass or cause nuisance to the local environment. Examination period will be taken in consideration in the programming of the works. Any complaints received will be managed in a responsible manner via a complaints log that will be reviewed continuously to ensure prompt closeout. Site will register to the Considerate Constructors Scheme The specific Construction Traffic Management / Logistics Plan will be implemented to minimise the effect of the construction traffic on the surrounding network, local community and the environment. This is included in Appendix 1. There would be no waiting areas for site vehicles in the roads around the site. It is assumed that HGV construction traffic would be spread evenly over the working day (to avoid peak periods), although there may be slight peaks

6.7 Concrete Washout

Details project specific risks and controls (if applicable):
A concrete washout is required consisting of an excavated hole lined with 2 layers of plastic to ensure no concrete lattice contaminates the ground. The concrete lorry then washes out chutes

into this excavation with the concrete solids contained within the lining. The solids will be left to dry before being disposed of.
Retained solids will be broken up and reused on site as agreed with the Structural Engineer or removed from site for recycling.

Lining is to be inspected after each break out to ensure no damage has occurred to the plastic lining.

Location TBC upon PCSA period

6.8 Social Value and Considerate Constructors Scheme

As a Partner member of the Considerate Constructors Scheme (CCS), this project will register with CCS.

The Sisk Sustainability Management System covers the requirements regarding social value and the CCS to ensure a positive impact on the communities where we work. As part of this a Social Value Strategy and Considerate Constructors Strategy will be implemented on the project.

6.9 Contaminated Land

Details project specific risks and controls (if applicable):
In the event of any evidence of soil contamination being found during either excavation or the construction works, appropriate remediation measures will be employed. Any contaminated soil will be delineated, removed, and stored on impervious quarantine areas pending testing to confirm appropriate removal and disposal to permitted/licenced waste facilities. Records of disposal will be retained on site for inspection. As per mobilisation phase the preliminary pre-construction information would indicate that soil is not contaminated as per the WAC testing available as part of the project Site Investigation Report.

6.10 Discharges

Details project specific risks and controls (if applicable):
Any water pumped from excavations etc will be brought to a settlement pond before being discharged to existing surface water network. This will occur under a discharge licence which will follow the licence requirements in terms of reporting and discharge water quality. It is expected that groundwater will be encountered on the project in deeper excavations. Water that will be both existing ground water through its water table and rainwater that will fall into open excavations. These will be discharged via settlement tank above. Wheel wash – it is imperative on this project that a site wheel wash is installed to ensure that there is no dirt leaving site onto public roads. On this site there will be a wheel wash installed prior to the exit from the Vantage site. All vehicles leaving the site will pass through this wheel wash to ensure the wheels are fully cleaned. Roadsweeping – in addition to the wheel wash as detailed above, there will be a roadweeper brought in as required on site in order to sweep the internal and public road immediately outside the site as required. Roads will be inspected daily by site gatemen and Sisk Foremen.

6.11 Ecology (Habitat)

Details project specific risks and controls (if applicable):

Sisk are committed to protecting and where possible enhancing the ecological environmental that we work in. This forms part of the Sisk Sustainability Policy. In the event that the project team comes across a protected species, an Ecologist shall be employed on a contractual basis to establish the correct controls for our work method going forwards.

There are a number of trees and vegetation to be removed on the site. These trees need to be removed before construction. Bird surveys to be undertaken prior to construction works commencing. If breeding birds are identified within the site at this time, species specific buffers will be implemented to protect nesting birds during construction Works to remove trees to be undertaken outside of the bird breeding season of March to August in the event that nesting birds are encountered. (01 March to 31 August).

A bird hazard management plan for the construction phase will be established and communicated to the Irish Air Corps Bird Control Unit (BCU), in order to reduce the presence of any hazardous birds that may arrive during the construction phase of the development. BCU are contactable at bcu@birdcontrol.ie.

In relation to badgers and otter all excavations are to be securely covered or closed off at the end of each working day to prevent the accidental trapping of badgers. Where this is not possible, a means of escape (for example a ramp) must be included to allow safe exit from the excavation. Checks of any open excavations should be performed by site staff prior to each day's works. The proposed security fencing will have mammal gates or a gap of at least 10cm at the bottom to allow free movement of badgers through the site.

Pre construction surveys for badger and otters have also be undertaken. No evidence of any protected species was observed.

Dust generated from construction works would be managed by means of 2.4 m high site hoarding and dust suppression measures, such as the use of water sprays, dampening down of roads and covering of storage areas, such that the potential for adverse dust generation is reduced

All lighting would appropriately be aimed, controlled and switched off when the site is not operational (where practicable). The lighting of the site must not light the woodland habitat on the boundaries. Details of the lighting will be detailed in the temporary lighting plan to be developed within PCSA.

6.12 Energy

A project energy management plan will be implemented following the procedures in the Energy Series 1800. This will ensure the implementation of energy management actions to achieve the energy objectives and targets. Energy consumption data will be collected and reported on. All required documentation to be populated for the project in line with Series 1800.

Any project specific risks and controls where relevant are detailed below.

Details project specific risks and controls (if applicable):

As soon as practical, mains power will be installed onsite. In the interim temp power will be supplied by generator. This will be a bunded generator and auxiliary bunded fuel tank

Door closers on temporary accommodation will be installed on doors to ensure doors are not left open.

Timeclocks will be used for managing heaters, etc.

6.13 Invasive and Pest Species

Details project specific risks and controls (if applicable):

The Biodiversity Management Plan by Neo Environmental which is included in the project EIA notes in section 1.56 that no signs or evidence of invasive non-native species were observed.

If any unexpected areas of invasive or pest species are uncovered during construction works Sisk will stop work immediately, cordon off the area and ensure appropriate control measure are put Any invasive species will be treated to relevant best practice advice to remove the risk of the invasive species spreading.

This may include:

- Cutting and spraying with a non-persistent herbicide
- Cutting and burying of waste on site in a geotextile membrane
- Excavation and removal to a suitably licensed landfill site (expensive and least preferred option).

6.14 Landscaping and Vegetation

Detail's project specific risks and controls (if applicable):

An Arboricultural Assessment has been completed by Felim Sheridan of Arborist Associates for the client. This identifies 61No trees, 2No tree lines and 7No hedges within the site area that were graded according to BS 5837:2012. From this report a drawing has been produced which clearly identifies the trees / hedges to be removed and those to be retained on the project.

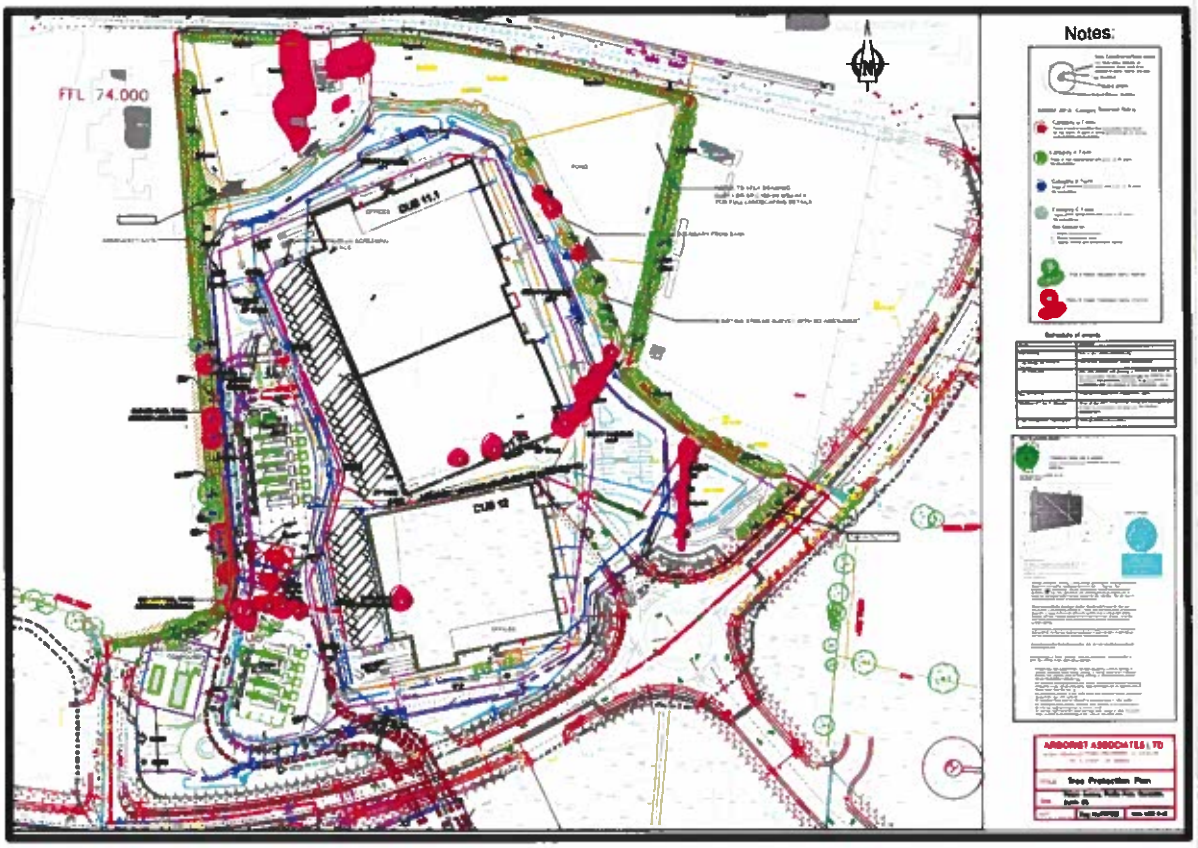
A suitably qualified and experienced tree surgeon will be contracted to fell and prune all trees / hedges on the site.

Trees that are to be retained will be suitably protected for the duration of the project to prevent unnecessary damage. This will be in the form of robust fencing and signage as indicated on the

tree protection plan drawing. No works or storage is to occur inside the line of this fencing as it is acting as the root protection zone without the Arborists consent. Fencing will be inspected every fortnight as part of the Site Environmental Inspection.

Once heavy construction and landscaping works have been completed and with the authorisation of the arboriculturist the tree protection fencing will be removed.

The tree removal and protection details can be viewed below. Red trees are to be removed and those in green are to be retained.



6.15 Lighting

Details project specific risks and controls (if applicable)
All lighting would appropriately be aimed, controlled and switched off when the site is not operational (where practicable).

Control measure with regards lighting include:

Do

- ✓ Ensure that site workers are aware of the sensitive receptors surrounding the site.
- ✓ Turn off lighting when a room or area is not in use, when not controlled by sensors.
- ✓ Position/direct lighting down and away from sensitive receptors.
- ✓ Use directional lighting.
- ✓ Use appropriate levels of illumination.
- ✓ Install hoods, louvers, shields, reflectors and baffles to mitigate or reduce light spillage.
- ✓ Ensure mitigation measures are in place.

Don't

- ✓ Ignore complaints – respond politely and take action or contact the appropriate person on site. Inform Vantage as required.
- ✓ Light areas, or leave lights on, when it is not required.

6.16 Materials

Details project specific risks and controls (if applicable):

Do

Ordering

- ✓ Purchase all timber through CoC Certification schemes e.g. Forest Stewardship Council (FSC) or Programme for the Endorsement of Forest Certification (PEFC).
- ✓ Ask for other certified sustainably sourced materials e.g. BES 6001, Certification Authority for Reinforcing Steels (CARES).
- ✓ Substitute hazardous materials with non-hazardous alternatives wherever possible.
- ✓ Ask for recycled or renewable alternatives to virgin materials (e.g. recycled aggregate).
- ✓ Ask for the products to be delivered with reusable packaging.

Delivery

- ✓ Ensure materials are offloaded as close as possible to where they are required.
- ✓ Ensure deliveries are checked to ensure they are not damaged; do not accept the delivery if they are.
- ✓ Ensure deliveries are checked to confirm they are the correct specification and quantity.
- ✓ Ensure all timber delivery tickets include reference to the chain of custody scheme (i.e. FSC, PEFC), and copies forwarded to the Site Environmental and Sustainability Champion.
- ✓ Check for excessive packaging and inform site management if this occurs.

- ✓ Consider "just in time" delivery so that materials are not stored on-site longer than needed, exposing them to risk of damage; at most brought to site no longer than 48 hours before needed, as agreed with Sisk management.
- ✓ Find out what form the materials will be delivered to arrange the correct plant to unload them.

Storage

- ✓ Ensure materials are stored in accordance with the supplier's instructions.
- ✓ Ensure materials are stored on suitable pallets, or for liquids use a bund or drip tray.
- ✓ Ensure materials are stored neatly and securely so they are not blown away or damaged.
- ✓ Ensure materials are stored away from neighbours and watercourses, including drains.
- ✓ Secure materials from the risk of theft, vandalism or accidental damage.
- ✓ Avoid double handling – the more they are moved the more chance of damage.
- ✓ Ensure that the storage area is secure and weather tight if necessary and that it is ready to receive the materials immediately.

Don't

- × Store flammable materials near activities which could generate sparks (e.g. cutting, grinding, welding).
- × Leave materials where they might be damaged by site traffic.
- × Leave materials that could be spoilt by the elements.

6.17 Noise & Vibration

Details project specific risks and controls (if applicable):

Do

- ✓ Erect/ utilise designated enclosed areas for noisy works where required.
- ✓ Be aware of any restrictions or planning conditions and adhere to these.
- ✓ If possible, avoid or limit high noise activities (i.e. piling, breaking out with pneumatic tools, grit blasting, hydro-demolition).
- ✓ Restrict noisy activities to certain times of the day.
- ✓ Adhere to site working hours (normally 07:00 – 19:00 Mon-Fri and 08:00 – 13:00 Sat, no Sundays or public holidays working without prior derogation from SDCC.
- ✓ Adhere to project noise limits.
- ✓ Carry out noise monitoring when required by Sisk management.
- ✓ Operate plant in the mode of operation that minimises noise emissions.
- ✓ Reduce use of audible warning systems, especially sirens.

- ✓ Point piling rigs into the site to direct noise away from neighbours.
- ✓ Construction plant will be maintained in good condition with regards to minimising noise output and workers exposed to harmful noise and vibration.
- ✓ Construction plant will be operated and maintained appropriately, having regard to the manufacturer's written recommendations and maintenance programmes.
- ✓ Keep acoustic doors, hoods and panels on plant closed.
- ✓ Minimise drop heights into hoppers, lorries and other plant.
- ✓ Arrange delivery times to avoid traffic congestion/noise in the area.
- ✓ Adoption of quiet working methods, using plant with lower noise emissions, where reasonably practicable.
- ✓ Adoption of working methods that minimise vibration generation, where reasonably practicable;
- ✓ Demolition operations will be organised with regard to positioning of plant and movement of vehicles so as to minimise noise adjacent to properties.
- ✓ Use of plant conforming with relevant Irish standards, directives or recommendations on noise or vibration.
- ✓ Maximum acceptable levels of construction noise at sensitive receptors is 65dB LAeq10hr as the first action level.
- ✓ the need for vibration monitoring and/or setting of vibration action levels will be discussed and agreed with SDCC.
- ✓ **Noise will be monitored through 3 noise monitoring stations located as per the noise monitoring plan. This data will be communicated to the relevant personnel on site. If the limits are exceeded notification will be sent to the relevant personnel so that action can be taken to ensure works are not exceeding agreed limits.**

Areas where monitoring stations will be installed.

Don't

- × Use poorly maintained plant.
- × Allow lorries to queue, especially outside the site.
- × Ignore complaints from the local community around noise and vibration.
- × Leave plant running unnecessarily.

6.18 Nuisance Management

Details project specific risks and controls (if applicable):

Measures identified in the Bird Hazard Management plan will be updated in this section once completed.

Other Do's and don'ts not relating to birds are mentioned below.

Do

- ✓ Access the site by approved routes only.
- ✓ Schedule deliveries within permitted site working hours.
- ✓ Keep public roads and footpaths clear of dirt and debris.
- ✓ Keep lighting to the minimum needed for safety and security.
- ✓ Only park in approved site parking areas.

- ✓ Restrict eating and smoking to designated areas away from public view, and ensure these areas are kept clean.
- ✓ Be aware of the member of staff who is the point of contact for the local community.
- ✓ Be polite and courteous to members of the public at all times, even if they appear aggressive.
- ✓ Respond to any enquiries or complaints quickly if they can be immediately resolved, and/or tell the Sisk contact as soon as possible so they can act.

Don't

- × Take short cuts across neighbouring land.
- × Drop litter or leave sites untidy.
- × Drag mud or allow wash waters onto roads.
- × Use offensive language.

6.19 Protected Species

Details project specific risks and controls (if applicable):

The Ecological Impact Assessment Report by Neo Environmental which is included in the project EIA notes in sections 2.73 – 2.92 that no protected species were identified on the site area. This included badgers, bats, otters, hedgehogs, other mammals, birds, herptiles and invertebrates. A pre-construction survey of the site area on 13/12/2022 confirms the original EIA findings that there are no protected species within the site area.

This report recommends that all standard best practice pollution prevention, waste management and environmental monitoring controls should be put in place. Sisk confirm that the controls within this plan satisfy these requirements.

Sisk are committed to protecting and where possible enhancing the ecological environmental that we work in. This forms part of the Sisk Sustainability Policy. In the event that the project team comes across a protected species, listed in the EIA as being possibly present due to the habitats currently on the site then, an Ecologist shall be employed. This will be on a contractual basis to establish the correct controls for our works on an on-going basis. Suspected protected species include badgers, bats, otters, pine martins, hedgehogs and protected birds.

6.20 Subcontractor Management

The management of subcontractors on Sisk projects will be conducted in line with the Sisk's standard Subcontractor Procurement and Management Procedure. In line with this each supply chain partner will create a separate Subcontractor Environmental Plan which will detail the environmental risks and impacts from their work. This form is included in the issued C&DWMP.

6.21 Traffic Management

Details project specific risks and controls (if applicable):

For any works whereby the construction works shall impact the public roads and footpaths the relevant South Dublin County Council licences will be sought. Works within the Profile Park industrial park will be agreed with Profile Park management. This includes the erection of site directional signage. No other parking will be affected by construction works. Delivery drivers will be issued with an access map for site outlining the preferred route to site. Drivers will be instructed not to queue on the adjoining road network. "Just in time" deliveries will be predominantly used to prevent the build-up of material on-site.

On-site Traffic

Do

- ✓ Adhere to the access control arrangements to and from the site.
- ✓ Ensure drivers adhere to the site rules and speed limits.
- ✓ Ensure delivery and waste removal vehicles are sheeted to prevent dust or material being blown into the air, as required.
- ✓ Minimise drop heights when tipping materials or loading vehicles
- ✓ Utilise the designated unloading / delivery areas, when applicable.
- ✓ Have designated workers on-site to receive deliveries, direct vehicles on and out of site, and to act as PVM's.
- ✓ Ensure all delivery drivers wear Personal Protective Equipment (PPE) once inside the delivery area.
- ✓ Point exhausts upwards to disperse pollution and avoid blowing dust up.
- ✓ Ensure vehicles enter cleaning facilities such as the wheel wash before leaving the site.
- ✓ Ensure all plant and vehicles are in good working order and check for leaks regularly.
- ✓ Should emergency maintenance need to be carried out on-site, ensure it is in a designated area away from sensitive receptors and that a spill kit is close to hand.
- ✓ Adhere to the safe walkways on-site.
- ✓ Ensure vehicles are not incorrectly loaded, as if so, these vehicles will not be offloaded.
- ✓ Ensure copies of relevant documentation, e.g. delivery notes, are handed to the gateman when vehicles leave the site.
- ✓ Consider lorries with 'white noise/broad band' reversing alarms to minimise the effects of noise on residents.
- ✓ Utilise the designated haul roads on and around site. Be aware of pedestrian crossing points

Don't

- ✓ Accept deliveries on-site or direct the vehicle without contractor staff and PVM's to unload them.
- ✓ Leave materials or waste in the unloading area.
- ✓ Leave engines running while waiting to unload.
- ✓ Wash vehicles outside of any designated area on-site.
- ✓ Let detergents enter the surface water drainage system as this will render any interceptors ineffective.

Off-site Traffic

Do

- ✓ Vehicles making deliveries to the application site or removing spoil material would travel via designated routes which would be agreed with SDCC as required. The principal contractor would liaise with SDCC to provide directional signage on the principal routes on the highway network surrounding the application site, if required, in order to improve navigation.
- ✓ Vehicles coming to the site would have specific timeslots booked. It would be the responsibility of the driver and company to ensure they arrive on site at the designated time.
- ✓ Plan the timing of deliveries to avoid vehicles waiting and minimise engine idling.
- ✓ Ensure delivery vehicles utilise the allocated waiting area when queuing for access to site, where available.
- ✓ Prevent delivery vehicles from queuing outside the site boundary on carriageways.
- ✓ Schedule site deliveries outside times of peak traffic volume.
- ✓ Make delivery drivers aware of traffic restrictions on and around the site.
- ✓ Follow the planned delivery routes to avoid sensitive receptors, as applicable
- ✓ Use retractable sheeted covers to protect windblown material, as required.
- ✓ Road cleaning facility provision.
- ✓ The construction sequence for the site would be programmed to minimise the need for road closures. However, there may be instances when they are unavoidable. Where this is the case, road closures would be requested weeks in advance and authorised by SDCC
- ✓ Larger vehicle movements would be scheduled to avoid peak hours on the local road network if at all possible. If an alternative construction traffic route is required, this would first be agreed with SDCC and any other relevant local authority or statutory body
- ✓ Encourage alternative modes of transport for workers to get to site e.g. minibuses, carpooling or bicycles.

- ✓ Ensure vehicles comply with the requirements agreed with the local authorities and police.
- ✓

Don't

- ✓ Cause nuisance and congestion outside site.
- ✓ Park vehicles around the site boundary as this will cause a nuisance to residents and disruption to deliveries.
- ✓ Allow vehicles to enter the site outside of agreed working hours. Exception will be concrete wagons during pours.

A separate traffic management plan will be prepared prior to construction commencing on site.

6.22 Travel Plan

Details project specific risks and controls (if applicable):

Taking account of the sensitivities of its neighbours and wider community, a project specific Travel Plan has been developed and is included in Appendix 2 of this plan.

The travel plan is made available to all visitors, subcontractors, staff and delivery / logistics organisations on request. It is also displayed in common areas such as security and canteens

Do

- ✓ Facilities for changing and storing cycling clothes would be provided.
- ✓ Cycle parking would be provided and this would be covered and secure;
- ✓ The contractor would encourage workers to car share where possible and would set up a car sharing database to identify where matches could be made;
- ✓ Incentives such as a free breakfast once a week for those walking, cycling, car sharing or using public transport would be considered; and
- ✓ Travel information packs would be provided to all workers. These would be provided in either paper form or electronically and would include public transport timetables and information on cycling routes.
- ✓ The project will endeavour to provide EV charging stations where practical during the construction stage.

6.23 Waste

Details project specific risks and controls (if applicable):

Sisk will comply with all applicable waste legislation as described in the Sisk Company Legislation register. A site waste management plan has been provided separately.

A Site Waste Management Plan identifies:

- Predicted waste streams and the quantity that will be generated by the project.
- Opportunities to minimise waste being produced in the first instance i.e. pre-fabricated structures.
- Opportunities for sustainable use of materials such as demolition waste, for example through reuse, elsewhere on the project in the first instance and / or recycling. The waste hierarchy will be considered before any waste is disposed of.
- Waste haulier and facility locations in compliance with legislation and duty of care requirements.

Prior to any waste being removed from site, a copy of the waste carriers' licence and facility permits/exemptions will be received from all contractors.

The following arrangements will be put in place for the control of waste on the project:

Do

- ✓ Ensure site staff are aware of and adhere to the waste management controls included in the SWMP (C&DWMP).
- ✓ Review and identify opportunities to avoid and reduce waste on-site, where possible.
- ✓ Work with suppliers to engage take-back schemes and consolidation of loads.
- ✓ Segregate waste appropriately as soon as it is generated, and place in the appropriate receptacle.
- ✓ Ensure gypsum and hazardous/special wastes are segregated separately from other waste streams.
- ✓ Ensure waste containers are marked clearly
- ✓ Store waste securely to prevent scavenging and materials being blown out by wind.
- ✓ Close lids or covers of skips to prevent waste getting wet or escaping.
- ✓ Ensure hazardous/special wastes are stored in suitable labelled containers.
- ✓ Ensure liquid wastes are stored in suitable sealed containers, in bunded storage areas.
- ✓ When a contractor is responsible for the removal of their own waste - select waste management contractors carefully and check and confirm they are licenced and provide compliant waste transfer notes/ dockets. Confirmation required from Sisk before waste can be removed from site.
- ✓ Ensure each waste movement is recorded on the Waste Dispatch Log and this is forwarded to the Site Environmental Champion.
- ✓ Keep sites clean and have waste collected regularly.
- ✓ Store canteen/food waste in a covered skip to discourage rats and other pests from coming on-site.

- ✓ Earthworks - soils will be reused on site where possible mostly for landscaping works. Stone will also be reused in berms and subject to engineering assessment and approval under campus tar roads.
- ✓ Storage of canteen foods will be internal. Any waste will be kept in covered food bins which will be inaccessible for pests and birds.

Don't

- × Overfill skips.
- × Put liquids or flammable liquid wastes into skips.
- × Put paint cans in mixed waste skips
- × Mix gypsum waste with any other waste streams.
- × Mix non-hazardous and hazardous/special waste.
- × Mix different types of hazardous/special waste together.
- × Store waste materials longer than is necessary prior to disposal.

Given there is a net fill of material required to raise levels on site. Suitability of soil and stones be determined by onsite testing, which will be agreed with the Structural Engineer. Areas where rock will be re-used will be placed in areas as agreed with the Structural Engineer.

6.24 Water

The pumping of water on construction projects is considered as a high-risk activity, particularly where water is being discharged to drainage systems (surface or foul) or direct to the environment i.e. water courses, ditches, streams, etc.

It is a mandatory requirement to use the permit to pump system where discharges are taking place to drainage networks or direct to watercourses, etc. Permit to Pump must be used. This is included in Appendix 4.

Details project specific risks and controls (if applicable):
Any water pumped from excavations etc will be brought to a settlement pond before being discharged to existing surface water network, subject to approval of a discharge licence by SDCC. It is expected that groundwater will be encountered on the project in deeper excavations. There will also be and rainwater that will fall into open excavations that will have to be managed. Water will be chain pumped to a main pump point and then pumped onwards to a settlement pond. From here water will be pumped through a final sediment treatment tank (if required) before being discharged. Any discharge conditions required will be monitored prior to final outfall with testing for required parameters. Reports will be issued by the specialist dewatering contractor to the issuing authority to demonstrate on-going compliance.

7 Arrangements for Monitoring Compliance and Corrective Action

Sisk have an Inspection and Auditing Procedure that will be complied with. This is to verify that the Sisk EMS on-site is being operated as per the ISO 14001:2015 Sisk EMS. This will be undertaken by the project Environmental Champion for the recorded fortnightly inspection which will occur using the Field View platform. Sisk have dedicated Sustainability Managers who independently of the project will audit the application of the EMS on the project on an agreed basis during the project.

7.1 Inspections, review and audit

The Site management team will carry out a range of inspections and audits as detailed below:

Monitoring:	Monitoring Method:	Frequency:	Responsibility:
Roadways	Visual Inspection	Daily	Gatemen / Foremen
Fortnightly On-site Environmental Checks	Inspection using Field View	Fortnightly	Project Environmental Champion
Arborist	Report	Prior to construction start to verify tree protection installation. At removal of tree protection at project end to conduct post construction tree survey. During construction monthly	Arborist appointed by client. 1 week notice to arrange visit by contractor.
Archaeologist	Report	Archaeological monitoring during site strip.	Archaeologist appointed by client. 1 week notice to arrange visit by contractor.
Ecological	Site inspection by Site Ecologist	During construction 2 monthly	Client appointed ecologist. 1 week notice to arrange visit by contractor.
Internal Audit	Audit by Sustainability Team against audit template	To be determined at prestart meeting	Sustainability Team

1st On-site environmental review	Review by sustainability team	Once only: within 6 weeks of project start	Sustainability team

Contractors are required to implement their own arrangements for monitoring their activities to ensure standards are maintained and where necessary corrective action is taken. Contractors monitoring to be logged and issued to client team monthly. This will be logged by Sisk.

Sustainability Non-Conformances:
The following arrangements will be put in place for identifying Sustainability non-conformances and issuing Corrective Action Instructions such as Clean Up Notices. The Environmental Champion will complete the fortnightly Environmental Inspection using Field View. Any corrective actions of a minor nature will be emailed to the relevant contractor and Sisk Package manager for corrective action. If there is a more serious breach of the project requirements, then a formal Non-Conformance Report (NCR) will be issued to the relevant contractor. This will be required to be formally closed by the contractor, along with causes identification and actions to prevent reoccurrence.

8 Environmental Emergency

The following section details the responsibilities and response actions that will be implemented in the event of an environmental emergency. This section will be supplemented with appropriate drawings, layout plans, drainage plans, identification of sensitive receptors, etc. as well as the location of any high-risk areas such as re-fuelling points, chemical storage points as well as emergency control equipment e.g. spill kits, etc.

8.1 Environmental Emergency Contacts and Plan

Emergency Contact:	Contact Details (Name and Number):
Project Environmental Emergency Coordinator	Alan Doheny – 087 406 3641
Fire	999
Ambulance	999
Environmental Regulator	Environment Protection Agency - 053 916 0600 Out of Hours 0818 33 55 99
Local Authority/ County Council	South Dublin County Council 01 414 9000 Out of Hours 01 457 4907 info@sdublincoco.ie
Water Authority	Irish Water 1800 278 278
Fisheries	Inland Fisheries Ireland – 0818 34 74 24
Spill Emergency Response Provider	RSK Raw Environmental ROI - 1850 616 616

Project specific contacts	Alan Cawley - Sisk – Senior Sustainability Manager: 087 171 475

The following nine-point response plan must be followed for all Site Environmental Emergency responses:

- Assess the situation
- Protect yourself and others (using relevant PPE as necessary)
- Contain the Spill
- Stop the Spill
- Reassess the situation to ensure the spill is under control
- Clean-up the spill (Note: absorbent materials will need to be handled the same as the liquid spilt)
- Decontaminate (Self, other people and equipment)
- Report the spill
- After spill analysis – identify root cause and preventative actions

Site Plan incl. high risk areas, emergency control equipment, etc.
First aid & emergency response room to be set up. This store to contain spill containment material. Spill kits to be located at risk areas around the project site such as refuelling areas.

8.2 Training and Awareness

Regular drills will be conducted to maintain awareness of identified environmental risk areas, plans and response plans.

Environmental Emergency Plans will be briefed to all personnel on the project through regular toolbox talks, briefings and review of RAMS at a frequency determined by the project team and in relation to the level of risk.

Type of drill:	Person Responsible:	Frequency:
e.g. Spill drill	Priyon Paul	Quarterly
e.g. desk top briefing / training	Priyon Paul	As required
e.g. toolbox talk	Priyon Paul	Monthly

When spill kits are located on projects, specific training and instruction will be given in the response and use of such equipment. Such training and instruction shall be repeated as an annual exercise.

Where projects are deemed to be high risk, specific environmental emergency drills will be undertaken with records maintained as to the nature of the drill and attendees. Such drills will be conducted not more than once every six months.

8.3 Reporting Complaints and Incidents

Complaints and incidents will be reported in accordance with the Event Reporting and Management Procedure using Airsweb.

Where there is a significant public interface; a contact and complaints record may be maintained as a local file; however, it will be regularly reviewed by the Sisk Sustainability Manager to identify trends and common areas of complaint such that remedial actions can be put in place to remedy.

Any other site-specific arrangements:

Client CMT to be informed of any complaints received by the PSCS

9 Other Significant Risks and Controls

9.1 Other potential risks

No risks not identified in the other sections of the plan.

10 Records and Record Retention

It is essential that all records with legal or regulatory status are appropriately stored, maintained and retained for inspection both during construction and subsequent to project completion: *(Consider: - Waste Transfer Notes or Dockets; Hazardous Waste Consignment Notes; permit monitoring results; correspondence with regulatory agencies).*

Records:	Storage Location:	Retention period:
Noise & Vibration Monitoring	Sisk Vantage SharePoint	5 years
Dust Monitoring	Sisk Vantage SharePoint	5 years
Auditing	Safety & Environmental Folder	5 years
Waste Management Records	SmartWaste & Sisk Vantage SharePoint	5 years

11 Derogation

The following is a log of requests for derogation from the Sisk management system in accordance with the Change Management and Derogation Procedure.

Summary of requested derogation:	Date Issued:	Date approved:
No derogations from standard Sisk EMS expected.		

Copies of the Derogation Requests and authorisations will be retained in the Sisk project filing system.

Appendix 1 – Traffic Management Plan

Health and Safety

Traffic and Pedestrian Management Plan

Document code FM-OHS-2400-01

Revision 01

Project Name:	Vantage Data Centers
Project No.:	0913
Traffic Management Coordinator:	Joey Martyn
Project Lead:	Joe Brady

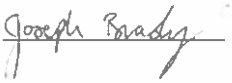
Revision control

Rev No	Date issued	Prepared by	Approved by	Comments
00	December 2019	F McNeil	W Metcalfe	1st Issue

Revision log

Rev No	Details
00	1st Issue

Plan revision control

Rev No	Date issued		Prepared by		Approved by	Comments
00	18/01/2023	Name	Ian Thompson	Name	Joe Brady	
		Sign		Sign		
01	26/01/2023	Name	Ian Thompson	Name	Joe Brady	
		Sign		Sign		

Plan revision log

Rev No	Details
00	Initial plan issue
01	Updated Works and Site Traffic Plan Section 6

Contents

1 Description of the scheme

The two data centres would be constructed across the site, broadly orientated north to south, within the southern portion of the site to reduce the visual bulk of the data centre from New Nangor Road. The data centres would be screened by proposed extensive berms and planting and landscaping to the north of the Baldonnel Stream.

The proposed data storage facilities are arranged into two data centres: the larger northern data centre (DUB11) and the southern data centre (DUB12).

The proposed development would include the construction of an internal road network and circulation areas, dedicated pedestrian footpaths, provision of 137 car parking spaces (14 of which would be dedicated to electric vehicle (EV) charging and 7 for disabled parking) and 66 bicycle parking spaces in double-stacked covered racks.

There will be two main entrances to the site for deliveries and vehicular site access. These will be Gate 1 & Gate 3 which are off Falcon Avenue and Legacy Drive respectively within Profile Park. would be from Falcon Avenue in Profile Park. There will also be a dedicated pedestrian access point to the site area through Gate 2 which is also located on Falcon Avenue. Car and cyclist parking along with temporary construction accommodation will be provided off Casement Road within Profile Park. This is immediately to the south of the site area on lands owned by the project client.
The existing Profile Park roads and footpaths will be utilised by site personnel, delivery vehicles and visitors to access the project site.

2 Location Plan

Site address:
John Sisk & Son (Holdings) Ltd
DUB 1
Profile Park,
Clondalkin,
Dublin 22

Site co-ordinates:
53°18'57.6" N 6°26'34.5"W
53.315991, -6.442915

Main Sisk Site Contacts:
Tel 086 262 2992 Richard Sheehan (Campus Manager)
Tel 086 894 2033 Joe Brady (Project Director)

3 Reference material and information sources

List the reference material and information sources used in compiling this report

- Pinnacle Outline Construction Traffic Management Plan
- Sisk guidance and procedure notes for the Sisk Construction Stage Traffic Management Plan
- Sisk standard signage guidelines for site set up
- Chapter 8 DoE Traffic Signs Manual

4 Scheme Contact Details

Name:	Role:	Contact Details:
Client: Vantage Data Centers		
Colm Fagan	Client Construction Director	colm.fagan@vantage-dc.com
Michael Kennedy	Client Campus Managers (Linesight)	Michael.kennedy@vantage-dc.com
PSCS: John Sisk & Son (Holdings) Ltd		
Joe Brady	Project Director	j.brady@sisk.ie
PSDP: Punch Consulting Engineers		
Bertie O'Leary	Technical Director	boleary@punchconsulting.com

5 Proposed Traffic Management Measures

- Approach signage at the roundabout at the junction of the New Nangor Road and Profile Park to be erected in consultation with SDCC from both directions.
- Construction approach signage as per the standard Sisk signage guidelines to be erected within Profile Park to direct traffic, pedestrians and cyclists to the correct locations for works access.
- Vehicles coming to the site would have specific timeslots booked. It would be the responsibility of the driver and company to ensure they arrive on site at the designated time.
- Plan the timing of deliveries to avoid vehicles waiting and affecting park traffic.
- Ensure delivery vehicles utilise the allocated waiting area when queuing for access to site, where available.
- Prevent delivery vehicles from queuing outside the site boundary on carriageways.
- Schedule site deliveries outside times of peak traffic volume.
- Make delivery drivers aware of traffic restrictions on and around the site.
- Road cleaning facility provision.
- Larger vehicle movements would be scheduled to avoid peak hours on the local road network, if at all possible. If an alternative construction traffic route is required, this would first be agreed with SDCC and any other relevant local authority or statutory body
- Encourage alternative modes of transport for workers to get to site e.g. minibuses, carpooling or bicycles.

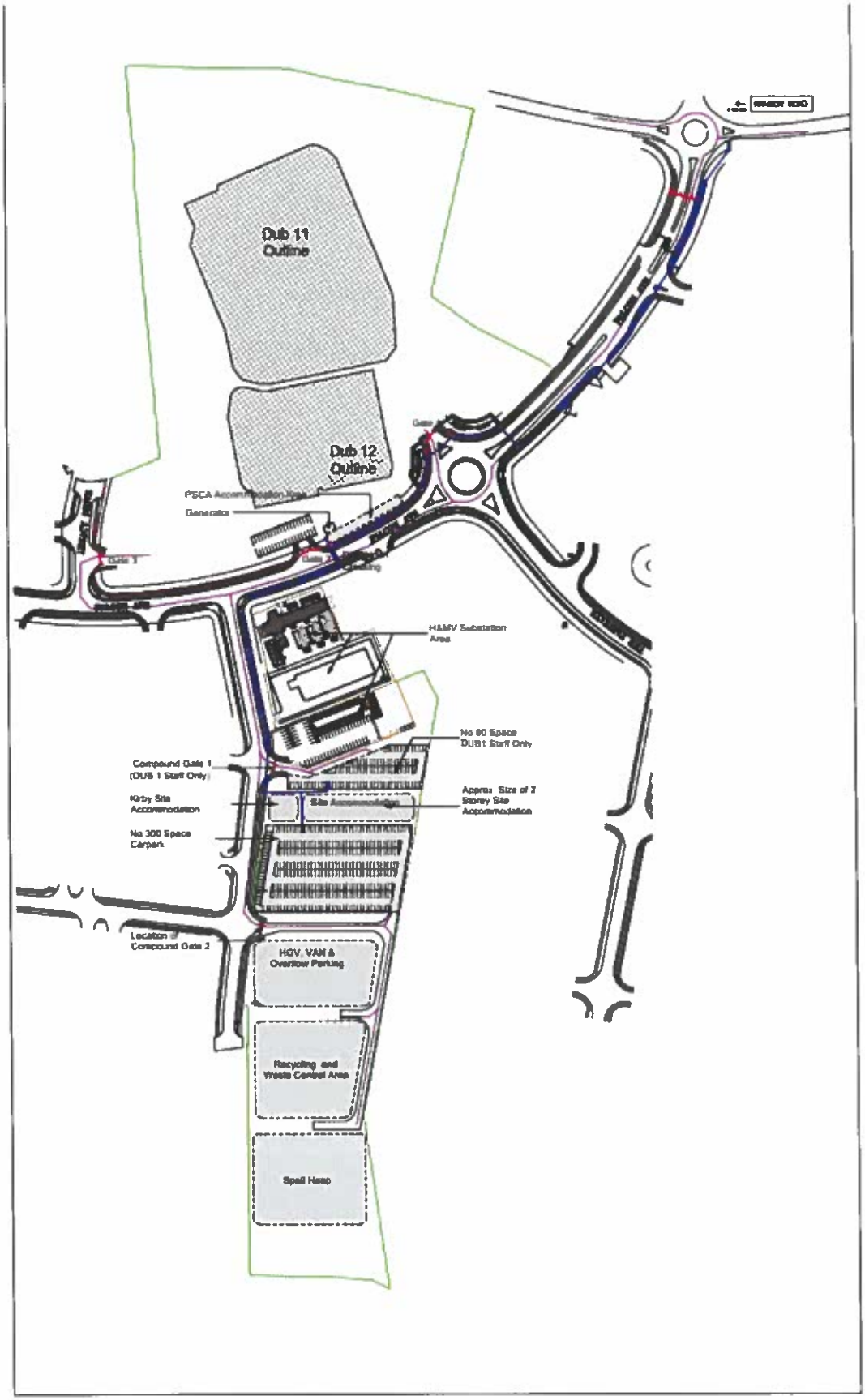
6 Works and Site Traffic

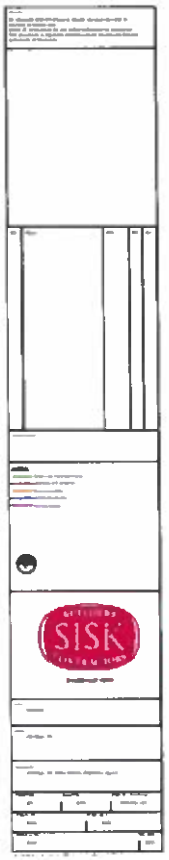
All vehicles will access the Profile Park business park via the main access roundabout on the New Nangor Road, the top right of the below plan. Cars, vans, pedestrians and cyclists will access the project car parking and temporary construction accommodation via Falcon Avenue and Casement Road. Delivery vehicles or any other vehicle needing direct access to site will do this via Gate 1 or Gate 3 as shown below. The exact access point will be a function of site logistic and works requirements and will vary over the duration of the project. Clear directions as to which gate is to be used at any point in time will be given to contractors and delivery drivers.

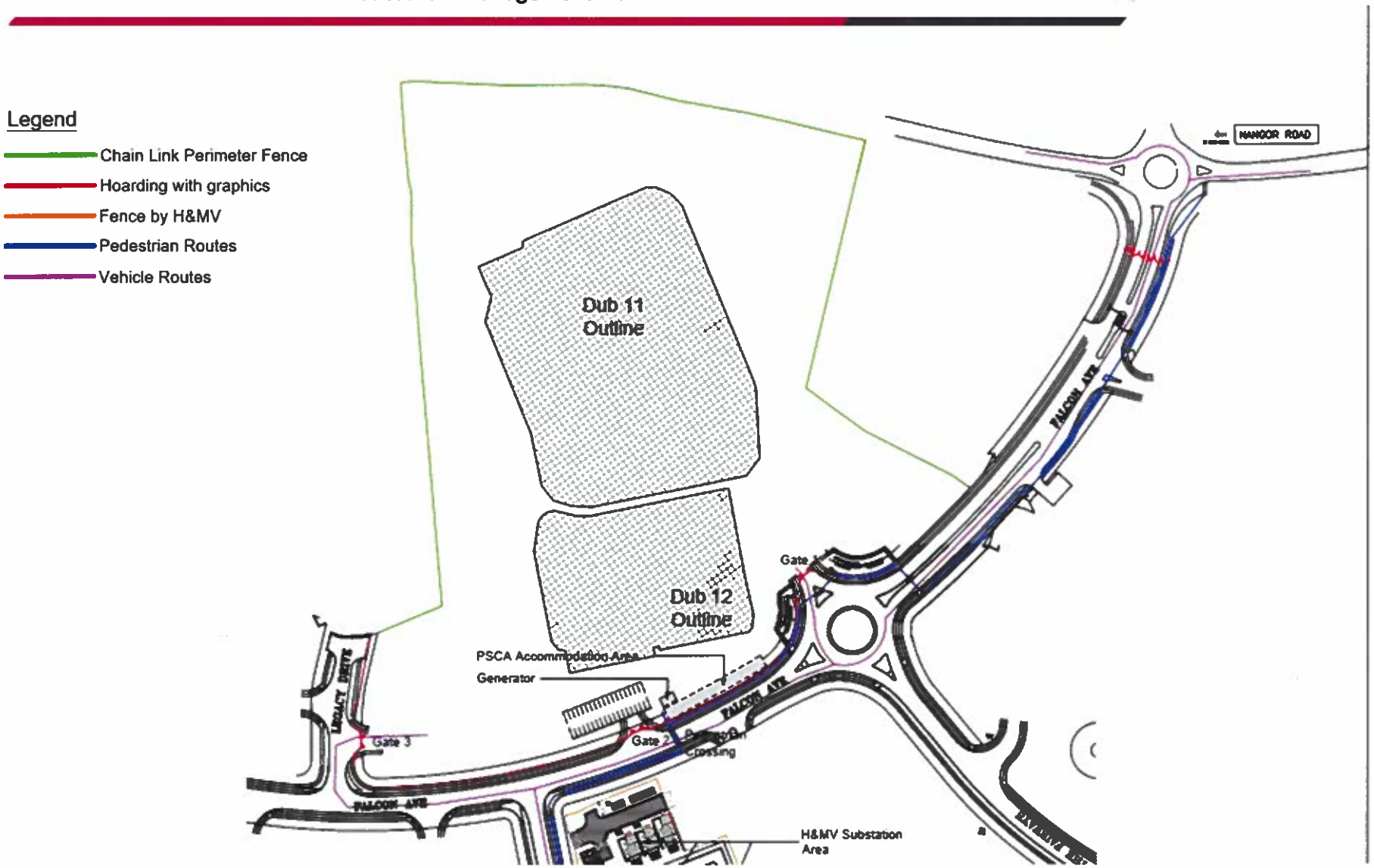
There will no impact on the existing footpaths within Profile Park by the site works. Pedestrian crossing points in place within the business park should be used by site personnel walking from the parking and office area to the main site area. Security will manage access for vehicles to the project area and no pedestrians are to use vehicular gates, dedicated segregated pedestrian access will be provided. All vehicles on Profile Park roads should obey the 25km/k speed limit as clearly signposted.

Operatives driving to site and delivery vehicles will share the existing roads within Profile Park and should obey the normal rules of the road and posted speed limits. All pedestrians whether accessing the business park on foot or coming from the car park area to the site must use the existing footpaths provided within Profile Park. Roads should only be crossed at designated crossing points. Any issues noted by operatives should be raised with Sisk site management who can address or refer to Profile Park management as appropriate.

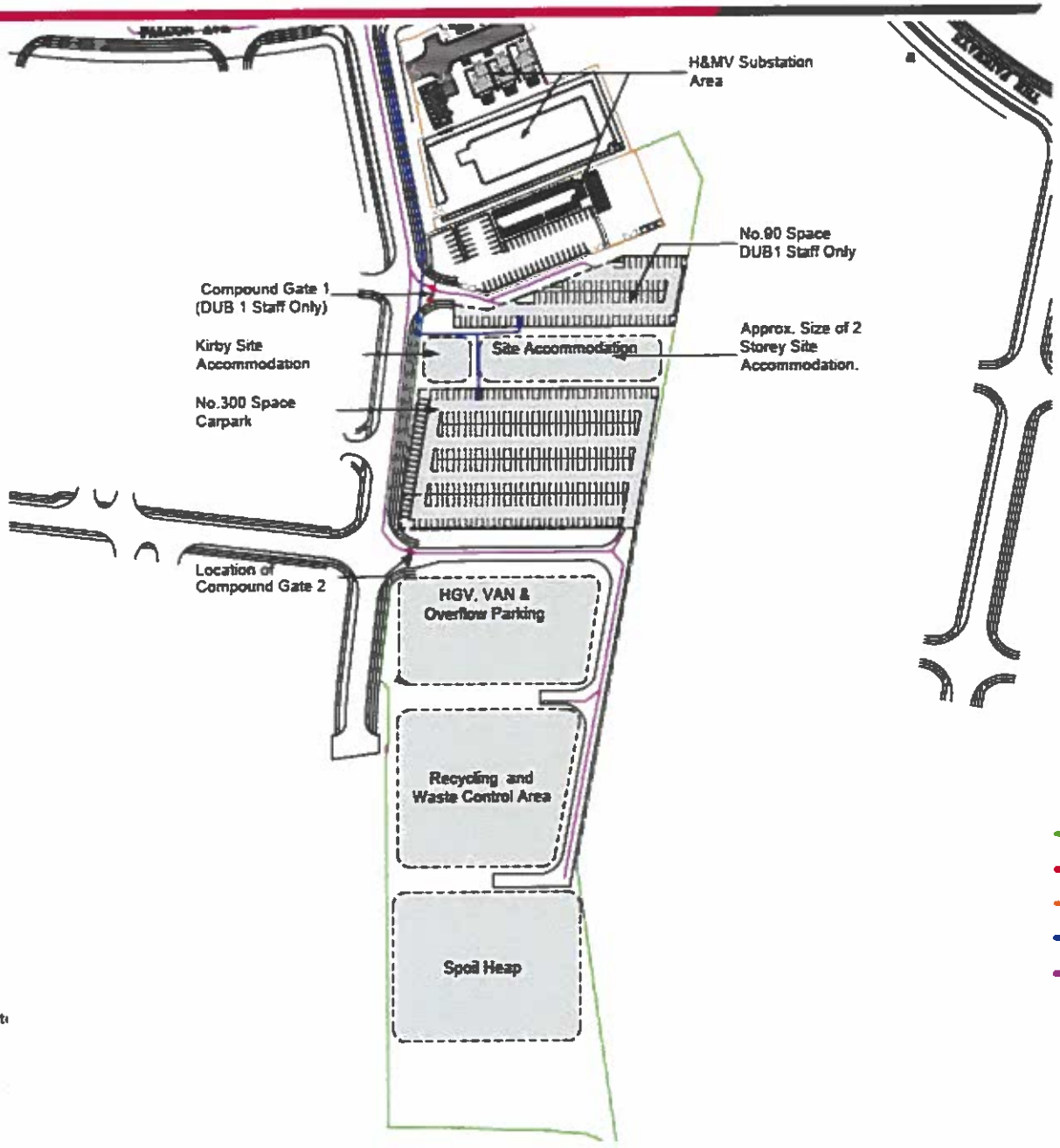
FM-OHS-2400-01 Traffic and Pedestrian Management Plan







FM-OHS-2400-01 Traffic and Pedestrian Management Plan



7 Short Duration Traffic Control

Sisk do not envision any works affecting road traffic outside Profile Park at any time during the project. Furthermore Sisk have no works currently within our project scope that requires additional short duration traffic control within Profile Park.

If there are any works arising by others that require Chapter 8 traffic control then Sisk will engage proactively with that body / contractor to minimise traffic disruption to the business park and the surrounding public roads.

8 Speed Limit and Enforcement Strategy

A traffic speed limit of 25km/h is in place within Profile Park access roads. This is clearly sign posted at the main entrance to the park and is to be observed by all vehicles entering the business park.

An on-site speed limit on 15km/h is to be put in place on haul roads around the site area. This is for site safety and to limit the potential for dust generation.

Speed limits within Profile Park and the project site will be advised to all operatives during site orientation, signage, TBT and at safety meetings. Issues that may arise due to vehicles failing to obey agreed speed limits or traffic management measures will be dealt with using the Sisk Behavioural Code.

9 Sequence and Programme

As noted earlier in the plan the access points for vehicles to site will alter over the duration of the project. On-site works will block or limit access gates at times due to the volume of underground works to be completed for the project. The overall project has been planned and sequenced in such a manner that adequate access will be available from Profile Park to the site at all times.

The use of an off-site car park and temporary construction accommodation facility will greatly aid this as it will reduce the amount of traffic attempting to use the same entrances. It has the added advantage of increasing the separation of private vehicles and construction vehicles accessing the site with the corresponding reduction in the risk of accidents.

10 Coordination with Adjacent Stakeholders

Close cooperation and coordination will occur with Profile Park management and security to ensure the smooth operation of the project to the benefit of all parties. Any enquires from SDCC will be handled by Sisk senior management in consultant with the client as required.

11 Publicity and Communications

As the project is within a private business park it is not envisioned that any public notices of the site establishment will be required. Public relations with general enquires is via the client. Sisk will engage with specific requests in relation to our works.

Appendix 2 – Project Travel Plan

Site address:
Vantage DUB1,
Falcon Road,
Profile Park,
Clondalkin,
Dublin 22

Sisk Site contacts:
Kieran Colleran 086-2657805
Richard Sheehan 086-2622992

Local hotels:
Maldron Hotel Newlands Cross
01 464 0140
Green Isle Newlands Cross
01 412 3700
The Address Hotel Citywest
01 461 9900

Useful websites:
www.irishrail.ie
www.dublinbus.ie
www.buseireann.ie
www.transportforireland.ie

TRAVEL PLAN
Vantage DUB1

Travel by train

The nearest train station is: Adamstown Station

Taxis are readily available from: Lynk Taxis
Premier Westside cabs or FreeNow app

Train information: www.irishrail.ie

Travel by bus

The nearest bus stop is:
Kilcarberry Park, routes 13,
68 & 869
Grangecastle, route 151

Car sharing

Where possible please try to car share. You will be able to contribute to our reduction in carbon emissions.

Even if you can only car share occasionally you will helping us achieve one of our Sustainability Commitments by helping to reduce your carbon footprint.

Cycling

On site facilities include:
Bike racks and changing facilities

www.routeyou.com

Walking

Route planners
www.routeyou.com
maps.google.com

Driving

We would encourage you to take advantage of the alternative ways of travelling before deciding to use your car on business travel.

Parking

There is car parking available on site at present. The site will have 600 parking spaces, within a secured area. Parking is at owners risk

Please report to reception upon arrival and complete the signing in procedure.

Teams or telephone conferencing

Teams or telephone conferencing can drastically reduce fuel, cost and time.

Where appropriate virtual meetings should be prioritised over in-person

Appendix 3 – Sustainability Compliance Booklet

Sustainability

Sustainability Compliance Booklet

Document code GD-SUS-0900-01

Revision 00

Revision control

Rev No	Date issued	Prepared by	Approved by	Comments
00	November 2020	SJ Davies	W Metcalfe	1st Issue

Revision log

Rev No	Details
00	1st Issue

Contents

1 Introduction

Sisk operate an Environmental Management System to ISO 14001 and an Energy Management System to ISO 50001. We expect all contractors and suppliers to co-operate fully in the implementation of these systems on-site. As a minimum, all contractors are expected to comply fully with all relevant environmental legislation and industry best practice.

Sisk is committed to protecting the environments where we work, minimising the impact which our works have on these environments, as well as actively engaging with the local communities to deliver our projects sustainably.

These expectations are general rules relating to the management of the working environment and should be read in conjunction with the project specific Sustainability, Environmental and Energy Plan (SEEP).

2 Sisk Policy Statements

Sisk's Sustainability and Energy Policy statements will be displayed in both the Sisk site office and welfare facilities.

3 Objectives and Targets

Sisk have several sustainability objectives and targets which are monitored at a project level on a monthly basis, with project performance displayed on the Sustainability site noticeboard. Contractors are expected to assist Sisk in achieving these objectives and targets relative to their work operations. These targets are updated on an annual basis and the latest targets can be reviewed in the Project SEEP.

Area	Metric
Energy	kg CO_2e/£100k
Water	m^3/£100k
Materials	% certified timber
Waste	% diverted waste (Construction & Demolition)
	t/£100k waste generated (Construction)
Community	CCS Score

Figure 1: Sisk Objective and Target Areas.

4 Environmental Management System (EMS) Documentation

The following forms and documents from the Sisk Environmental Management System (EMS) must be reviewed and completed where necessary by all contractors.

Subcontractor Environmental Plan – to be completed by all contractors two weeks prior to starting on-site and a copy forwarded to the Project Environmental Champion.

Waste Dispatch Log – to be completed/updated by all contractors removing their own waste at the time of each waste movement and a copy forwarded to the Project Environmental Champion at the end of each week.

5 Operational Controls

5.1 Incident Preparedness and Response

All contractors must consult the site-specific Incident Preparedness and Response Plan included in the site Project SEEP prior to any works commencing to raise awareness of the response procedure on-site. The Incident Preparedness and Response Plan will also be displayed in various locations around the site.

Do	Be aware of the location of all watercourses, gullies and drains before starting work and ensure that they are all protected where necessary.
	Ensure fuel or oil storage areas are located away from vehicle routes, and at least 10 m from any watercourse and at least 50 m from any well or borehole.
	Ensure only trained and competent individuals undertake refuelling activities.
	Immediately act to contain any spill and report it to the Project Environmental Champion.
	Inform Sisk management and then the environmental regulator if a spill or leak may have entered a watercourse or drain.
	Check the contents of spill kits regularly to ensure they contain all appropriate materials.
	Ensure spill kits are in a well sign-posted location and protected to prevent damage from the weather.
	Ensure spill kits are specific to the oils and chemicals that are on-site.
	Dispose of used spill kit materials in the hazardous/special waste receptacles provided.
Don't	Allow liquids to flow into watercourses or drains.
	Wash off any tools or plant in watercourse.
	Store fuel or chemicals within the catchment of a live gully.

5.2 Ecology

All contractors must consult the Project SEEP prior to any works commencing to raise awareness of any ecological risks, such as protected habitats or invasive species. Any site-specific risks will also be highlighted in the site specific orientation.

If protected habitats or invasive species are discovered during works on-site, stop work in that area immediately and contact the Project Environmental Champion.

5.3 Animals

Do	Minimise disturbance – animals will generally move away from an area when disturbed.
	Before the start of each shift, and after a break, check the area for wildlife.
	Stop work near any wild animal that is found, and report the finding, and any harm caused, to the Project Environmental Champion.
	Watch out when clearing a site near ponds as great crested newts may be present. If newts are found, stop work and contact the Project Environmental Champion.
Don't	Approach animals - they may become distressed and may bite.
	Take or destroy the egg of any wild bird.
	Disturb, damage or move a bird nest at any time unless it has been confirmed as unoccupied by an appointed specialist.

5.4 Harmful and Invasive Non-native Plants

Do	Cordon off the area to prevent accidental spread, and raise with the Project Environmental Champion, if plants are found that could be noxious or invasive.
	Wash the wheels/tracks of any vehicles that have been in a highlighted area with known or potential noxious or invasive plants, and control wash water.
	Ensure that those who have been working in the area wash their hand tools, boots and gloves.
Don't	Enter an area of identified noxious or invasive non-native plants.
	Excavate or move soil that may contain seeds or other plant materials without advice from an appointed specialist.
	Stockpile material suspected of containing invasive non-native plants within 10 m of watercourses, gullies or drains.

5.5 Trees, Hedgerows and other vegetation

Do	Keep vehicles and plant away from trees and hedgerows.
	Wrap damp sacking around any exposed roots and cover with sharp sand until ready for back filling. Compact backfill lightly.
	Take care not to damage bark or roots.
	With permission, cut roots only with a clean hand saw; do not use a digger or spade.
	With permission, remove any branches that are, or are likely to be, damaged by the works using a saw or loppers close to where they join a larger branch or the trunk.
	Recycle waste vegetation locally if possible.

Don't	Store any materials, place skips, or park vehicles, within a tree protection zone – this can damage roots.
	Store fuels or oils under or near trees.
	Clear trees from a site during the bird nesting season (between March and August inclusive).
	Fell trees without checking whether they are protected and whether nesting birds are present.

5.6 Historic and Built Heritage

All contractors must consult the Project SEEP prior to any works commencing as this will highlight any issues of archaeological significance, listed buildings or ancient monuments which require control measures. Any site-specific risks will also be highlighted in the project induction.

If archaeological remains are found unexpectedly during works, stop work immediately and contact the Project Environmental Champion.

5.7 Archaeological Remains

Do	Ensure site workers are aware of any known historic remains on-site.
	Erect protection fencing around any known or suspected area of archaeological or historical interest and raise with the Project Environmental Champion.
	Stop work immediately if anything is found that might be of archaeological significance and seek expert advice.
	Follow advice provided by the appointed archaeologist.
	Adhere to the specific working methods to avoid disturbance to remains, should work be allowed to restart.
Don't	Remove any "finds" (e.g. coins, pottery or bones) from where they are found.
	Undertake any work close to areas of identified archaeology without permission from site management.
	Drive vehicles through protected areas.

5.8 Built Heritage

Do	Ensure that site workers are aware of listed buildings and scheduled ancient monuments on-site.
	Ensure that all works on these structures are covered by the appropriate consent before starting.
	Inform site workers of the work they can and cannot carry out on the structure.
Don't	Alter, damage or demolish any listed building or scheduled ancient monuments on-site.

	Remove any item of (potential) historical importance without first consulting the heritage specialist.

5.9 Land Contamination and Unexploded Ordnance (UXO)

All contractors must consult the Project SEEP prior to any works commencing. This will highlight any known areas of contaminated land or UXO and the site-specific control measures regarding this. Any site-specific risks will also be highlighted in the project induction.

If areas of suspected contaminated ground or items of UXO are found unexpectedly during works, stop work immediately, secure the area and contact the Project Environmental Champion.

Do	Ensure that site workers are aware of the controlled fenced-off remediation zone if part of a contaminated site is being remediated.
	Follow advice provided by appointed UXO specialist.
	Ensure people on-site are aware of where the quarantine area for particularly hazardous materials is.
	Where possible, load lorries in sheltered areas to avoid windblown contaminated dust.
	Ensure vehicles moving from contaminated areas have their wheels washed before they enter non-contaminated areas of the site.
	Damp down, or use specialist soil binders, where there is a risk of windblown contaminated material.
	Take care when dewatering excavations (pumping out groundwater or rainwater) if they are near contaminated sites, as contaminated groundwater from nearby sites can be drawn in.
	Be aware that disturbing the ground can release flammable vapours.
	If possible, avoid stockpiling contaminated soil.
	Use covered skips rather than sheeted stockpiles.
	If it is necessary, stockpile only on a hard-standing area to prevent contamination of underlying ground, use impermeable liners, and control surface water drainage from the stockpile area.
	Use a road sweeper to keep site accesses clean and free from mud and standing water.
	Find out where to deposit road sweeper arisings.
	Stop work in that area immediately if contamination or UXO found unexpectedly.
	Secure the area and prevent access to unexpected contaminated area.
	Report suspected contamination to the Project Environmental Champion so that it can be investigated by a competent person.
	Understand the Site Management Plan for dealing with unexpected land contamination or UXO.

Don't	Continue dewatering activities in an area of suspected contamination, as contaminated groundwater may be mobilised in and around the site.
	Allow colleagues to enter the area of contamination until a manager or an appointed specialist gives instructions to do so.

5.10 Nuisance

All contractors must consult the Project SEEP prior to any works commencing. This will highlight the permitted site working hours, restricted quiet periods and any site-specific conditions in place for the management of nuisance, such as Section 61 consents. Any site-specific conditions will also be highlighted in the project induction.

5.11 Interaction with Local Community

Do	Access the site by approved routes only.
	Schedule deliveries outside of local rush hour, but within permitted site working hours.
	Keep public roads and footpaths clear of dirt and debris.
	Keep lighting to the minimum needed for safety and security.
	Only park in approved site parking areas.
	Restrict eating and smoking to designated areas away from public view, and ensure these areas are kept clean.
	Be aware of the member of staff who is the point of contact for the local community.
	Be polite and courteous to members of the public at all times, even if they appear aggressive.
	Respond to any enquiries or complaints quickly if they can be immediately resolved, and/or tell the Sisk contact as soon as possible so they can act.
Don't	Take short cuts across neighbouring land.
	Drop litter or leave sites untidy.
	Drag mud or allow wash waters onto roads.
	Use offensive language.

5.12 Dust, Emissions and Odours

Do	Use dust suppression measures – sweep regularly and use water to damp down.
	Consider fine spray dust suppression systems for demolition activities.
	Minimise drop heights into haulage vehicles, conveyor belts and other plant.
	Use enclosed conveyors and chutes for conveying demolition materials and dampen down regularly.

	Use debris sheeting around buildings during demolition to reduce dust emissions.
	Ensure crushing plant is away from sensitive receptors.
	Ensure stockpiles have the minimum practicable height and gentle slopes and locate as far away as possible from sensitive receptors.
	Where possible, use storage bays to contain stockpiles; the stockpile should not be higher than the sides of the bay.
	Stabilise stockpiles by rolling, seeding or covering them.
	Keep to the designated routes for site traffic.
	Keep to site speed limits when driving.
	Use screens, lidded skips and sheeted lorries to contain dust.
	Use dust extraction or water spray attachments on cutters and saws.
	Use modern plant and generators, and service them regularly.
	Turn off plant when not in use.
	Remove waste, especially canteen waste, frequently when under the contractor's control.
	Use water based or low Volatile Organic Compound (VOC) paints.
	Monitor and log routine checks of dust and odour levels when required on and off-site. This can be visual/smell checks or other tests.
	Drag mud onto roads outside the site – use wheel cleaning facilities to make sure wheels are clean before leaving.
Don't	Burn materials or have bonfires on-site.
	Ignore complaints – respond politely and take action or contact the appropriate person on site.

5.13 Lighting

	Ensure that site workers are aware of the sensitive receptors surrounding the site.
	Turn off lighting when a room or area is not in use, when not controlled by sensors.
	Position/direct lighting down and away from sensitive receptors.
Do	Use directional lighting.
	Use appropriate levels of illumination.
	Install hoods, louvers, shields, reflectors and baffles to mitigate or reduce light spillage.
	Ensure mitigation measures are in place.
Don't	Ignore complaints – respond politely and take action or contact the appropriate person on site.

	Light areas, or leave lights on, when it is not required.

5.14 Noise and Vibration

Do	Erect/ utilise designated enclosed areas for noisy works.
	Be aware of any restrictions or conditions and adhere to these.
	Ensure works are undertaken in compliance with the Section 60 notice or Section 61 consent (if applicable, UK only).
	If possible, avoid or limit high noise activities (i.e. piling, breaking out with pneumatic tools, grit blasting, hydro-demolition).
	Restrict noisy activities to certain times of the day.
	Adhere to site working hours (normally 08:00 – 18:00 Mon-Fri and 08:00 – 13:00 Sat, no Sundays or public holidays working without prior permission).
	Adhere to project noise limits.
	Carry out noise and/or vibration monitoring when required by Sisk management.
	Operate plant in the mode of operation that minimises noise emissions.
	Reduce use of audible warning systems, especially sirens.
	Point piling rigs into the site to direct noise away from neighbours.
	Keep acoustic doors, hoods and panels on plant closed.
	Minimise drop heights into hoppers, lorries and other plant.
	Arrange delivery times to avoid traffic congestion/noise in the area.
	Separate the building structure from adjoining buildings to reduce vibration where structurally possible.
Don't	Use poorly maintained plant.
	Allow lorries to queue, especially outside the site.
	Ignore complaints from the local community.
	Leave plant running unnecessarily.

5.15 Resource Management

Sisk have several objectives and targets regarding resource management, including Chain of Custody (CoC) Certification, prefer products with Environmental Product Declarations (EPD's) *Ire only,* reducing waste generation, and energy and water use on our projects. All contractors are expected to assist Sisk in meeting these objectives and aiding in the reporting and continuous improvement. Project performance of the objectives and targets will be reported monthly and displayed in prominent locations on-site.

5.16 Energy Consumption

Do	**Site Accommodation**
	Where contractors provide their own welfare facilities, where possible specify energy efficient site accommodation (insulated, timers, light sensors, external door closures etc.).
	Avoid excessive lighting and heating or cooling.
	Ensure all lighting and heating is switched off when not in use if not on sensors/timers.
	Set timers for heaters and remember to adjust them to suit seasonal changes.
	Plant
	Ensure plant and electrical equipment is switched off when not in use.
	Where possible utilise efficient/new plant - factor in the cost of running plant, not just the hire cost. Efficient plant is likely to cost less over the course of the project.
	Avoid unnecessary plant movements.
	Operate plant and vehicles correctly to ensure optimum performance.
	Service plant/vehicles regularly.
	Consider switching from compressed air to electric power tools; these can achieve up to 10 times more energy efficiency.
	Ensure generators are specified to optimum efficiency loadings (75-80 percent).
	Consider alternative fuels (e.g. biofuels).
	Transport
	Consider using rail or barges to transport materials rather than lorries.
	Order materials from local suppliers wherever possible to reduce the carbon emissions from transport.
	Encourage site workers to use public transport, carpool or cycle to work.
Don't	Leave doors or windows open when air conditioning or heating is on.
	Leave external lighting on unless it is a security requirement.
	Leave vehicles idling.

5.17 Materials (ordering, delivery and storage)

Do	**Ordering**
	Purchase all timber through CoC Certification schemes e.g. Forest Stewardship Council (FSC) or Programme for the Endorsement of Forest Certification (PEFC).
	Ask for other certified sustainably sourced materials e.g. BES 6001, Certification Authority for Reinforcing Steels (CARES).

	Prefer products with EPD's where possible within procurement or specification restrictions – *Ire only*
	Substitute hazardous materials with non-hazardous alternatives wherever possible.
	Ask for recycled or renewable alternatives to virgin materials (e.g. recycled aggregate).
	Ask for the products to be delivered with reusable packaging.
	Request locally sourced products where available e.g. Grown in Britain (GIB) assured timber.
	Delivery
	Ensure materials are offloaded as close as possible to where they are required.
	Ensure deliveries are checked to ensure they are not damaged; do not accept the delivery if they are.
	Ensure deliveries are checked to confirm they are the correct specification and quantity.
	Ensure all timber delivery tickets include reference to the chain of custody scheme (i.e. FSC, PEFC, GIB), and copies forwarded to the Project Environmental Champion.
	Check for excessive packaging and inform site management if this occurs.
	Consider "just in time" delivery so that materials are not stored on-site longer than needed, exposing them to risk of damage; at most brought to site no longer than 48 hours before needed, as agreed with Sisk management.
	Find out what form the materials will be delivered to arrange the correct plant to unload them.
	Storage
	Ensure materials are stored in accordance with the supplier's instructions.
	Ensure materials are stored on suitable pallets, or for liquids use a bund or drip tray.
	Ensure materials are stored neatly and securely so they are not blown away or damaged.
	Ensure materials are stored away from neighbours and watercourses, including drains.
	Secure materials from the risk of theft, vandalism or accidental damage.
	Avoid double handling – the more they are moved the more chance of damage.
	Ensure that the storage area is secure and weather tight if necessary and that it is ready to receive the materials immediately.
Don't	Store flammable materials near activities which could generate sparks (e.g. cutting, grinding, welding).
	Leave materials where they might be damaged by site traffic.
	Leave materials that could be spoilt by the elements.

5.18 Fuel and Chemical Storage

Do	Ensure fuel and oil containers are stored within a secondary containment system, such as a bund, that meets the legal requirements.
	Ensure the base and walls of the bund are impermeable to oil.
	Ensure any fill/draw off pipe penetrating the wall of the bund is sealed to prevent oil escape.
	Ensure the secondary containment is covered to prevent the ingress of rainwater.
	Ensure oil and chemical storage areas are secure with controlled access and clearly marked.
	Ensure tank pipes, hoses, pumps, taps and valves are situated within the secondary containment and locked when not in use.
	Regularly check tanks and bund containers for damage and leaks.
	Ensure only trained and competent individuals undertake refuelling activities.
	Place a plant nappy or drip tray under all plant during refuelling.
	Ensure a spill kit and plant nappy is located near fuel storage and refuelling areas.
	Use a funnel when fuelling small plant.
	Ensure all fuel and oil containers are kept tightly sealed, including oil that is waiting for disposal.
	Store materials in suitable containers that are labelled appropriately with fitted lids, taps and tops in good condition.
	Store materials, tanks and drums to guard against impact, breakage, vandalism or theft.
	Ensure all oil, fuel and chemicals are returned to their designated storage area at the end of the shift.
	Protect stores against flood damage or inundation.
Don't	Pour or use detergent to wash waste fuel or oil down drains, take it to a dedicated oil store or use the spill kit to clean it up.
	Store oil and fuel or carry out refuelling within 10 m of a watercourse or drain or within 50 m of a well or borehole, or within the catchment of a live gully.
	Locate fuel and oil tanks near to vehicle routes.
	Leave a tank to fill unsupervised.
	Store oil drums on drip trays; this is not secondary containment.
	Make an opening in the secondary containment to drain the bund.

5.19 Material Handling

Do	Follow the "first in–first out" rule for perishable materials such as cement.
	Ensure all site staff are aware of what materials on-site require careful handling and follow the supplier handling instructions.
	Keep handling to a minimum to avoid damage to the materials.

5.20 Waste

Do	Ensure site staff are aware of and adhere to the waste management controls included in the Project SEEP.
	Review and identify opportunities to avoid and reduce waste on-site, where possible.
	Work with suppliers to engage take-back schemes and consolidation of loads.
	Segregate waste appropriately as soon as it is generated, and place in the appropriate receptacle.
	Ensure gypsum and hazardous/special wastes are segregated separately from other waste streams.
	Ensure waste containers are marked clearly, if supplied by the contractor.
	Store waste securely to prevent scavenging and materials being blown out by wind.
	Close lids or covers of skips to prevent waste getting wet or escaping.
	Ensure hazardous/special wastes are stored in suitable labelled containers.
	Ensure liquid wastes are stored in suitable sealed containers, in bunded storage areas.
	When a contractor is responsible for the removal of their own waste - select waste management contractors carefully and check and confirm they are licenced and provide compliant waste transfer notes/ dockets.
	Ensure a waste transfer note/docket, or consignment note is received for each waste movement and forward copies to the Project Environmental Champion.
	Keep sites clean and have waste collected regularly.
	Store canteen/food waste in a covered skip to discourage rats and other pests from coming on-site.
Don't	Overfill skips.
	Put liquids or flammable liquid wastes into skips.
	Mix gypsum waste with any other waste streams.
	Mix non-hazardous and hazardous/special waste.

	Mix different types of hazardous/special waste together.
	Store waste materials longer than is necessary prior to disposal.

5.21 Water Consumption

Do	Ensure that there are control and management measures in place.
	Ensure stop taps fitted to all hoses on-site.
	Use non-potable water where possible.
	Act if any water leaks are discovered, and either stop the leak or contact the Project Environmental Champion.
	Refer to the water hierarchy to evaluate the available options.
	Comply with legislation and project targets and commitments.
Don't	Leave taps or hoses running or dripping.

5.22 Traffic, Travel Management and Vehicle Use

All contractors must consult the Project Traffic Management Plan (TMP) in conjunction with the Project SEEP prior to starting works. This will highlight the traffic management requirements for the project and specific controls to be adhered to.

5.22.1 On-site Traffic

Do	Adhere to the access control arrangements to and from the site.
	Ensure drivers adhere to the site rules and speed limits.
	Provide training for drivers if necessary.
	Ensure delivery and waste removal vehicles are sheeted to prevent dust or material being blown into the air.
	Minimise drop heights when tipping materials or loading vehicles
	Point exhausts upwards to disperse pollution and avoid blowing dust up.
	Ensure vehicles enter cleaning facilities before leaving the site.
	Ensure all plant and vehicles are in good working order and check for leaks regularly.
	Should emergency maintenance need to be carried out on-site, ensure it is in a designated area away from sensitive receptors and that a spill kit is close to hand.
	Adhere to the safe walkways on-site.
Don't	Wash vehicles outside of any designated area on-site.
	Let detergents enter the surface water drainage system as this will render any interceptors ineffective.

5.22.2 *Off-site Traffic*

Do	Plan the timing of deliveries to avoid vehicles waiting and minimise engine idling.
	Ensure delivery vehicles utilise the allocated waiting area when queuing for access to site.
	Prevent delivery vehicles from queuing outside the site boundary.
	Schedule site deliveries outside times of peak traffic volume.
	Make delivery drivers aware of traffic restrictions on and around the site.
	Ensure all delivery drivers wear Personal Protective Equipment (PPE) once inside the delivery area.
	Have designated workers on-site to receive deliveries, direct vehicles on and off-site, and act as banksmen.
	Ensure vehicles are not incorrectly loaded, as if so, these vehicles will not be offloaded.
	Ensure drivers are aware of the designated route back to the public highway.
	Ensure copies of relevant documentation, e.g. delivery notes, are handed to the gateman when vehicles leave the site.
Don't	Accept deliveries on-site or direct the vehicle without contractor staff to unload them.
	Leave materials or waste in the unloading area.
	Leave engines running while waiting to unload.
	Cause nuisance and congestion around site.

5.22.3 *Nuisance and Congestion around Site*

Do	Utilise the designated parking areas provided, when applicable.
	Encourage alternative modes of transport for workers to get to site e.g. minibuses, carpooling or bicycles.
	Be aware of road restrictions either through roadworks, narrow roads and bridges with height and/or weight restrictions.
	Follow the planned delivery routes to avoid sensitive receptors such as schools and hospitals.
	Utilise the designated walkways on and around site.
	Use retractable sheeted covers to protect windblown material.
	Consider lorries with 'white noise/broad band' reversing alarms to minimise the effects of noise on residents.
	Ensure vehicles comply with the requirements agreed with the local authorities and police.

Don't	Park vehicles around the site boundary as this will cause a nuisance to residents and disruption to deliveries.
	Allow vehicles to enter the site outside of agreed working hours.

5.23 Water

All contractors must consult the Project SEEP prior to any works commencing. This will highlight any pollution risk areas and site-specific control measures for water discharge activities. Any site-specific conditions will also be highlighted in the project induction.

5.23.1 Pollution Prevention

Do	Work in accordance with any permits, restrictions or rules that have been placed on the site for working near water.
	Utilise designated concrete washout area provided by Sisk.
	Reuse washout water as much as possible.
	Protect surface water and groundwater from washout.
	Erect dust screens on bridges and roads near water.
	Seed, roll or cover stockpiles as soon as possible.
	Erect silt traps at toe of soil stock piles.
	Where possible, minimise the amount of exposed earth.
	Place covers over freshly poured concrete to prevent surface washing away in heavy rain.
	When working over water, construct the working platform to act as a bund in case of spills.
	Use wheel and boot cleaning facilities and a designated area with appropriate containment for washing tools and plant that have been in contact with concrete.
	Use drip trays when refuelling, and below standing plant.
	Have booms available and know how to use them in case of a spill in a watercourse.
	Regularly inspect pollution prevention equipment and ensure it is in good condition.
	Regularly check waters for signs of pollution.
	Look for any visible signs of discolouration or cloudiness in waters at or near the site.
	Ensure site staff are aware of who to contact in the event of a pollution incident.
Don't	Store soil, stone or similar materials within 10 m of watercourses or drains.
	Locate fuel and oil storage areas near to vehicle routes, watercourses or drains.
	Allow plant with oil or hydraulic leaks near any watercourse.
	Ignore signs that pollution is occurring (e.g. muddy water entering watercourses or gullies).

5.23.2 *Drainage*

Do	Work in accordance with any environmental permits and discharge consents for water abstraction and discharges that are in place.
	Check any discharges regularly to make sure they are within permit conditions.
	Ensure silt traps are in place, when required.
	Protect/cover drains.
Don't	Pump silty water directly into watercourses, ditches or surface water drains.

5.24 Equality and Fair Treatment

All contractors must abide by Sisk's Equality Policy for equality of opportunity and fair treatment, to promote an environment free from discrimination and actively encourage diversity amongst its workforce.

Do	Adhere to the Sisk Equality Policy.
	Treat employees/ colleagues fairly and with respect.
	Report instances of discrimination if observed or made aware to Site Management.
	Promote the benefits of adopting fair employment practices through the supply chain to your partner organisations, suppliers and the market.
	Cooperate with Sisk in providing opportunities for working with voluntary and community sector organisations in the supply and service delivery.
	Cooperate with Sisk in providing opportunities to offer training and employment for local communities, under-represented classes and long-term unemployed.
Don't	Discriminate through recruitment, promotion, training opportunities, pay, benefits, discipline and redundancy.
	Discriminate, harass, bully, victimise or intimidate employees or colleagues.
	Discriminate against employees who hold trade union membership.

5.25 Social Sustainability

All contractors are expected to assist Sisk in ensuring the requirements of the Modern Slavery Act 2015 are considered throughout the supply chain and working with communities to promote social sustainability.

Do	Take measures to ensure slavery and human trafficking is not taking place within your business or supply chain.

Sustainability Compliance Booklet

	Takes measures to ensure child labour is not utilised in your operations, or those of your supply chain.
	Offer wages and benefits that are as a minimum at industry benchmarks/national legal standards.
Don't	Seek to avoid providing employees with their legal and/or contractual rights.
	Impose working hours on employees that are excessive and non-compliant with national laws/industry standards.
	Support, encourage or facilitate the trade in illegal goods and/or services.

Appendix 4 – Permit to Pump

Business Function: Sustainability | Document Owner: Director – Sustainability | Document Type:

FM-SUS-1400-01 Permit to Pump

Stage 1 – Permit Information:				
Project Name:			Project No.:	
Contractor:			Permit Ref No.:	
Pump No.:			Date last Maintenance Check:	
Valid from:	Date:		Time:	
Valid to:	Date:		Time:	
Intended location of pump/ source of liquids to be discharged (refer to sketch in Stage 2 Provisions):				
Intended location of discharge point (refer to sketch in Stage 2 Provisions):				
Purpose of pumping operation:				
Nature of liquid intended for discharge:				
Rate of pumping:		Volume to be pumped:		
Running times:		Operation:	Auto ☐ Manual ☐	
Testing details (incl. frequency):				
Inspection details (incl. frequency):				
Pollution control measures:	Silt buster: ☐	Lagoon: ☐	Straw bales and terram: ☐	
	Settling tanks: ☐	Other (specify):		
Sisk Responsible Supervisor:				
Task Supervisor:	Name:			
	Company:			
	Role:			
RAMS:				
Other relevant information:				

Business Function | Document Owner | Document Type
Sustainability | Director – Sustainability

FM-SUS-1400-01 Permit to Pump

Stage 2 – Provisions:

Sketch of discharge location and set up:

Precautions:	Yes	No	N/A
All generators, oils and liquids are correctly stored (plant nappies/ drip trays/ bunds etc. in place)	☐	☐	☐
All drip trays/ bunds are empty, and will be regularly checked and emptied with liquids disposed appropriately?	☐	☐	☐
Visual inspections are programmed regularly checking for signs of contamination?	☐	☐	☐
All equipment (hoses, generator, silbuster etc.) are in good condition, clipped together and will be regularly inspected?	☐	☐	☐
Appropriate Tool Box Talk has been conducted in advance of pumping operation?	☐	☐	☐
A responsible individual has been appointed to ensure pumps are not running outside of agreed times?	☐	☐	☐
Sisk reporting procedure for incidents/ near misses is in place and understood?	☐	☐	☐
Fully stocked spill kits, including equipment to protect drainage system are in place?	☐	☐	☐

- A copy of this permit must be displayed on the pump at all times
- A signed copy of this permit must be held in the site office

Sisk Responsible Supervisor: I confirm adequate provisions are in place and see no reason why the works cannot proceed in accordance with the RAMS identified and the express provisions of this Permit:

Print Name:		Signature:		Date:	

If you have ticked any red boxes, do not start work, speak up and contact the Sisk Responsible Supervisor for advice

Stage 5 - Permit Cancellation:

Task Supervisor: I confirm the work has been completed and pumping equipment has been removed from the permit area.

Print Name:		Signature:		Date:	

Sisk Responsible Supervisor: I confirm the works covered by this Permit are complete or the time period has expired and this Permit is cancelled.

Print Name:		Signature:		Date:	