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- 1.1 This Environmental Impact Statement (EIS) provides supporting information to accompany a Planning Application to the Planning Authority by Roadstone Wood Limited in respect of the continuance of use of the existing limestone quarry including continuance of use of all ancillary, processing and manufacturing facilities at the existing Huntstown Quarry Complex, North Road, Finglas, Co. Dublin, beyond October 2014 as permitted by the existing planning permission.
- 1.2 The existing quarry and ancillary facilities operate under planning permission F03A/1430 (ABP PL06F.206789).
- 1.3 The location of the application site is indicated on an extract from the 1:50,000 scale Ordnance Survey Discovery series map of the area, reproduced as Figure 1-1.

PROPOSED DEVELOPMENT

- 1.4 The proposed development will comprise of the continuance of all existing authorised facilities and activities within a planning application area of c.167.5 hectares as followings:
 - Extraction, crushing, screening and processing of rock (authorised by Reg. Ref. No. F03A/1430 / PL06F 206789) from the Northern, Western, Central and Southern Deposits for a period of 35 years.
 - Total extraction area of 0.35.9 hectares within a total landholding of c.211 hectares
 - Crushing, Screening and Processing Plant
 - Block Manufacturing Facility & Block Yard
 - Paving Display Centre & Offices
 - Machinery Maintenance Building
 - Offices, Staff Facilities, Laboratory
 - Concrete Batching Plant & Associated Plant
 - Asphalt Plant & Associated Plant
 - Stockpile Materials Shed associated with Asphalt Plant, granted under P. Reg. Ref. F06A/0923 (*ABP Ref: PL06F.219655*).
 - Weighbridge, Bunded Fuel Storage & Oil Interceptor
 - Security Huts (3 no.), Truck Wash Bays & HGV Load Spray Bars (P. Ref. FW09A/0099 in respect of amendment to Condition 14 of F03A/1430)
 - Bord na Mona Moving Bed Biological Reactor & Percolation Area
 - Stockpiles Storage Areas & Plant Storage Yard
 - Stables (22 no.) & Horse exercise paddock

- Existing Site Accesses (2 no.) onto the R135 North Road (Revised Entrance . P. Ref. F06A/0164 & ABP Ref: PL06F.217413P) & Kilshane Road.
- Restoration of any worked out extraction areas, including for 5 years after the cessation of quarrying activities.
- All other ancillary buildings, plant and facilities for the production of building products, including aggregates, ready-mix concrete, asphalt, tarmacadam and architectural blocks and all ancillary site works.
- 1.5 The applicant would propose that as part of this planning application that all existing ancillary facilities be retained indefinitely for the duration of extraction operations at the site. Therefore, any future planning applications would relate only to the extraction areas and be controlled by any duration limit as imposed by way of a planning condition.
- 1.6 The proposed continuance of the above activities will be carried out at the existing Huntstown Quarry Complex, located in the townlands of Coldwinters, Kilshane, Huntstown, Johnstown, Grange and Cappogue, Finglas, Co. Dublin.

THE SITE

Site Location

Poses only any other use The site to which this Planning Application refers is located within the 1.7 townlands of Coldwinters, Kitshane, Huntstown, Johnstown, Grange and Cappogue, Co. Dublin. The site is located approximately 2.5km north-west of the Dublin suburb of Finglas and 2km north-west of the interchange between the N2 Dual Carriageway and the M50 Motorway. The plan extent of the lands owned by Roadstone Wood Ltd. is outlined in blue on a 1:10,000 scale map of the area, reproduced as Figure 1-2. The plan extent of the application site is also outlined in red on the same figure.

Site Description

- 1.8 The site is a working quarry, which was first granted permission in the 1970's. The site can be divided in five separate areas. There are four quarry / extraction areas, described as the north quarry, the south quarry, the central quarry and the western quarry, refer to Figures 1-2 and 1-3. The fifth area is the central plant area, which contains offices, workshops, block plant, concrete and tarmacadam plants, block storage areas, all associated with the extraction and processing operations. Mobile processing plant is also located on the floor of the south quarry.
- 1.9 Each of the quarry areas currently being excavated (i.e. the south, north and central quarry areas) are worked on a bench system, whereby the levels are reduced in steps or benches up to 18m in height by means of in-situ blasting of the rock. The material is then moved to the central processing area for crushing and screening or in the case of the south quarry this is carried out by mobile plant on the quarry floor.

- 1.10 All overburden associated with accessing the in-situ rock at each of the extraction locations has already been stripped from the north, south and western quarry areas. This material has been utilised in the existing screening berms around the periphery of the site to screen the site and aid in the reduction of noise and dust impacts on the surrounding area. Further overburden / topsoil stripping is required in the central quarry area. This material will be utilised in ongoing restoration works at the site.
- 1.11 The north quarry and the south quarry are the most worked out to-date, having reached their third level. Extraction in recent years has mainly been concentrated on in the south guarry with smaller volumes being extracted from the north and central quarries. The north quarry has undergone progressive restoration over a number of years with material from the Dublin Port Tunnel and other infrastructure / commercial activities used to restore the eastern part to original ground level. The western guarry area has been, for the most part, stripped of overburden but has not yet been worked to extract stone to-date.
- 1.12 The main site access runs broadly from the central processing area in a west-east direction to the North Road (R135), To the north of this access road is the Viridian Huntstown Power Station site. The site has a Gas Fired Combined Cycle Gas Turbine Electricity Generating Station. This site is excluded from the application landholding.

Site Access

- **ccess** Traffic access to the application site is primarily obtained via the existing 1.13 North Road (the former N2 National Primary Road). Traffic coming from Dublin City Centre or the M50 Motorway turns onto the N2 Dual Carriageway and travels a short distance north, before turning (west) off a dedicated slip road onto the North Road. Thereafter traffic continues south for a short distance along the North Road before turning right (west) via a dedicated right-turn junction onto the access road leading into the Huntstown Quarry Complex. This access road also serves the Huntstown Power generating plant operated by Viridian.
- 1.14 Traffic travelling south from Ashbourne to the quarry and application site exits the N2 Dual Carriageway at the Cherryhound Interchange and continues south along the North Road, through Kilshane Cross, to the right-turn junction with the access road leading into the Huntstown Quarry Complex.
- 1.15 Access to the quarry and application site is also provided from the Ballycoolin and Finglas suburbs of north-west Dublin via an existing site access road leading off the Kilshane Road.
- 1.16 Traffic movement within Roadstone Wood's landholding is initially over paved road, up to the existing aggregate processing, concrete production and central infrastructure area. Thereafter, traffic crossing the application site generally runs over a network of unpaved haul roads.

Surrounding Land-Use

- 1.17 The site has limited frontage onto the North Road (R135), approx. 350m, from which there is the main vehicular access. Road frontage along the Kilshane Road, onto which the second site access exit's is approx. 530m. The landholding abuts another public road, the Cappagh Road, to the southwest for a distance of approx. 250m, refer to Figure 1-1.
- 1.18 A farm holding is located to the south-east of the site, with a large ESB 220Kv station complex located beyond located adjacent to the M50/N2 Interchange. A large number of overhead power-lines radiate from the ESB station complex in all directions with several traversing the application site. A number of industrial / business parks ('Millennium Business Park' and 'Stadium Business Park') are located to the south-west off the newly aligned Cappagh Road. To the west of Kilshane Road are further industrial and office parks, including North West Business Park, and beyond this is the large and expanding industrial and warehouse/distribution area of Ballycoolin. To the north of the application site is open farmland.
- 1.19 Lands to the east of the realigned N2 are mainly in agriculture with the exception of a new business park located to the east. There is a number of small scale commercial and service uses scattered along the road frontages of the North Road (R135) and the Kilshane Road. These include a timber and joinery centre, a garden centre a veterinary practice, dog kennels and a car sales premise. A number of one-off houses are located on the public roads around the periphery of the site.
- 1.20 Further east of the N2 Dual Carriageway lies Dublin Airport, with its western site boundary c.1.5km from the applicants landholding, refer to Figure 1-1.
- 1.21 Existing land-use in the vicinity of the application site, including residential and industrial development, is shown on the land-use map in Figure 1-2, and Figure 1-3 Site Aerial Photograph.

LAND OWNERSHIP

1.22 Roadstone Wood Ltd. is the holder of the freehold title to the lands around the quarry at Huntstown. Its total landholding extends to approximately 211 hectares (521 acres). The extent of its land ownership is shown on Figure 1-2.

THE APPLICANT

- 1.23 Roadstone was founded by the Roche Brothers in the 1930's and became part of Cement Roadstone Holdings (CRH) plc in 1970, following the merger of Roadstone and Cement Ltd.
- 1.24 Roadstone Wood Ltd. was formed in 2009 by the amalgamation of the three construction materials businesses operated by CRH in Ireland, Roadstone Dublin Ltd., Roadstone Provinces Ltd. and J.A. Wood Ltd. The company is

Ireland's leading supplier of aggregates, construction and road building materials and employs several hundred people at 65 locations throughout the country.

1.25 Roadstone Wood Ltd. presently operates Huntstown Quarry within guidelines of the Irish Concrete Federation and current best practice for the quarrying industry as set out in the DoEHLG (2004) and EPA (2006) guidelines for the The Applicant is committed to achieving and maintaining sector. environmental standards that can be considered world standard. To this end, the company have established environmental monitoring systems and procedures for all of their operations. ISO 14001 Accreditation was gained by the company on the 4th September 2002. The Applicant has endeavoured to maintain a good relationship with the neighbouring community, local businesses and local authorities.

PLANNING HISTORY

1.26 The excavation and blasting of limestone has been undertaken at the Huntstown Quarry Complex for the past four decades, following grant of outline permission in or around 1969. It is understood that quarrying at the northern and central areas was commenced at some time in the early-to-mid 1980's, on foot of a planning permission granted in 1982. required Purpose

Existing Permission

- A 10 year planning permission (Ref. No. 93A/1134 and P06F.092622) was 1.27 granted in 1994 to continue guarrying and for production of related concrete materials. Planning permission for the existing construction and demolition waste recycling facility in the centre of the guarry complex was granted in 2002 (Ref. No. F02A/0602 and PL06F.200623). Planning permission was granted in 2004 for continuation of guarrying for a further 10 year period (Ref. No. F03A/1430 and PL06F.206789).
- 1.28 Details of all planning permissions associated with the lands are detailed in Table 1-1 below:

Planning Ref. No.	Development Description	Decision
P. Reg. Ref. FW09A/0099	Amendment to Condition No. 14, authorised by Fingal Planning Reg. Ref. No. F03A/1430, so as to allow the option of spraying with water all vehicles carrying quarried or other dust producing materials to or from the site as an alternative to sheeting.	6 th October 2009 GRANT subject to 6 no. conditions

Table 1-1 **Planning Permission History**

Planning Ref. No.	Development Description	Decision
P. Reg. Ref. F06A/0923 ABP Ref: PL06F.219655	A 30m long x 15m wide x 10m high (ridge height) open fronted shed to cover material stockpiles.	29 th January 2007 GRANT following appeal subject to 8 no. conditions
P. Reg. Ref. F06A/0164 ABP Ref: PL06F.217413	A new 7.3m. wide vehicular access located approx. 140 metres to the north of the existing permitted access at North Road (former N" National Route) to link into existing access road; the proposed outbound lane measures approx 3.65 m. wide x 200m. long and the proposed inbound lane measures approx. 3.65m. wide x 240m. long; all ancillary site works and to amend Condition No. 11 of permission Reg. Ref. No. F03A/1430 so the operational hours for processing and manufacturing activities in the central plant area only shall be between 0530 hours and 2000 hours Monday to Saturday. The proposed access will be used by quarty traffic and Huntstown Power Plant traffic. The existing access at the former N2 North Road will be closed. Existing access will continue at Kilshane Road.	27 th September 2006 GRANT following appeal subject to 6 no. conditions
P. Reg. Ref. F03A/1430 <i>ABP Ref:</i> <i>PL06F.206789</i>	The continuation of extraction, crushing, screening and processing of rock (authorised by Reg. Ref. No. F93A/1134), from the northern, central, western and southern deposits for 20 years (c.57.5h, total extractive area in a c. 205 ha. overall site); the continuance indefinitely of all authorised crushing, creening and processing plant, block manufacturing plant (2,452 sq.m.) block yard (17.2 ha.), paving display area (636 sq.m.), paving centre (180 sq.m.), machinery maintenance building (1,456 sq.m.), offices (174 sq.m.), staff facilities (48 sq.m.), laboratory (68 sq.m.), concrete batching plant, semi-mobile concrete batching plant, asphalt plant, weightbridge, 2 no. truck wash bays, 4 no. security huts, Bord na Mona moving bed biological reactor and percolation area, stockpiles and all ancillary buildings, plant and facilities for the production of building products including aggregates, readymade concrete, asphalt, tarmacadam and architectural blocks and all ancillary site works; progressive restoration of the worked out extractive areas including for 5 years after the cessation of quarrying; and for the retention of plant storage yard (site area c. 1.74 ha.), 22 no. stables (394 sq.m.) and horse exercise paddock (site area c. 1.86 ha.). Existing access will continue at the N2 North Road and Kilshane Road.	4 th October 2004 GRANT following appeal subject to 25 no. conditions

Planning Ref. No.	Development Description	Decision
P. Reg. Ref. F02A/0602 ABP Ref: PL06F.200623	Recovery of pre-sorted construction and demolition waste (namely concrete, bricks, tiles, ceramics, and asphalt) on a 1.5 hectare site within its existing landholding. The development will consist of construction of a hardstanding area for stockpiling and waste recovery and waste inspection area (200 sq.m). Provision is also made for portacabin office (39 sq.m.). Operations to be carried out include crushing and stockpiling of material using mobile plant.	9 th June 2003 GRANT following appeal subject to 10 no. conditions
P. Reg. Ref. F01A/0231 ABP Ref: PL06F.200623	Planning approval for the extraction and processing of the limestone of the western deposit (2 no. 18 metres benches by c. 9.7 hectares plan area within c 19.5 hectares area of western deposit) pursuant to Condition No. 1 of Reg. Ref. 93A/1134 (permission to retain indefinitely all existing plant, buildings, services and ancillary development including concrete plant, macadam plant, store plant and block plant as previously approved under Reg. Ref. WA 2282, and permission to quarry northern, western and central limestone deposits as previously approved under Reg. Ref. WA 2282 and southern deposit at Huntstown).	7 th March 2003 GRANT following appeal subject to 10 no. conditions
P. Reg. Ref. F98A/1313 ABP Ref: D110954	Application made by CRHE states Ltd. Gas-fired Combined Cycle Gas Turbine electricity generation station with an output of up to 600 MW, to be developed in two phases. The application includes two turbine halls, two heat exchange boilers, four 33.5 metre high stacks, two air cooled condenser units, two-storey administration and control building, workshop, stores, electrical switchyard, above ground installation for gas supply, reserve fuel storage tanks, miscellaneous plant and equipment, site and landscaping works, wastewater treatment plant and the demolition of an existing dwelling. The application relates to a development that comprises of or is for the purposes of an activity that requires a license under Part 1V of the Environmental Protection agency Act 1992.	7 th March 2003 GRANT following appeal subject to 10 no. conditions
P. Reg. Ref. F93A/1134 ABP Ref: PL06F.130638	Permission to retain indefinitely all existing plant buildings services & ancillary dev. (including concrete plant macadam plant stone plant & block plant) as previously approved in 1984 (Reg.Ref. WA/2282) & for permission to quarry Northern Western & Central limestone deposit as approved Reg.Ref. WA/2282 and Southern deposit at their 200 hectare Huntstown quarry	19 th May 1994 GRANT following appeal subject to 30 no. conditions

Planning Ref. No.	Development Description	Decision
P. Reg. Ref. F93A/0114	Retention of horse stables	10 th February 1994
		REFUSED
WA 2282 (1981)	To quarry northern, western, and central limestone deposits, new concrete plant and for the retention of block plant, macadam plant and ancillary installations. An Bord Pleanála in upholding the decision to grant imposed a condition limiting the life of the quarry to ten years (July 1994)	July 1984 GRANT following appeal subject to 16 no. conditions
H/1054 (1973)	Quarrying operations on these lands	GRANT
A/0825 (1969)	Quarrying operations on these lands	Outline Permission GRANT
	Se other as	

Current Planning Application

- 1.29 This current planning application, as set out in paragraph 1.3 above, essentially seeks to;
 - Continue, for a period of 35 years, the extraction, crushing, screening and processing of rock in the south, central, western and north quarry areas (giving a total overall extraction area of 55.9 hectares).
 - Continue all authorised crushing, screening and processing, and all of the plant, block yard, paving display areas and all buildings in the central processing area.
 - Progressive restoration of the worked-out extraction areas, including for 5 years after the cessation of quarry activities.
- 1.30 Condition No. 5 of Planning Permission F03A/1430 states:

'Notwithstanding the above condition, the applicant shall strictly accord with the proposed or anticipated quarrying phasing / sequencing programme as per Appendix D of the response to the Additional Information request, (from Kieran O'Malley & Co. Ltd., letter dated 20/02/04). In this regard, no quarrying of the western quarry shall take place until all extraction works have ceased, has been exhausted in the northern quarry; and no quarrying of the revised central quarry shall commence until all extraction works have ceased, has been exhausted in the western quarry'.

- 1.31 As part of this planning application it is proposed that the four extraction areas be permitted to be worked simultaneously.
- 1.32 Huntstown Quarry currently has one active extraction area (South Quarry), two historical extraction areas (Central and Northern Quarries) and one proposed future extraction area (Western Quarry). Further resources are available for extraction in all four areas. The Southern and Northern Quarries are developed within the Malahide Limestone Formation, the Central Quarry is developed within the Feltrim (Waulsortian) Limestone Formation and the Western Quarry lies within the mapped sub-crop area of the Lucan Formation.
- 1.33 The four quarries are therefore developed, or proposed to be developed, within three different geological formations with rock types of differing physical and chemical properties. It is likely that the different lithologies would be suitable for differing end-use applications and it is likely that, if extraction was limited to a single extraction area, that the full range of available aggregate or industrial mineral end-uses available from the Huntstown site could not be realised from a single extraction area.
- 1.34 High value aggregates may, therefore, be extracted and used for low specification applications while more suitable materials may be available in other unused areas of the site. Alternatively, high-specification materials may be available but not extractable due to restrictions on the total number of working areas within the site, leading to transport of these materials over large distances from more distant sites outside the Huntstown area where these materials can be produced.
- 1.35 Having extraction potential from the four quarry areas at Huntstown will optimise the utilisation of the resources available at the site.

Waste Licence Application

- 1.36 A waste licence application has been submitted to the EPA on the 22nd February 2011 for an exhausted portion of the north quarry, outside the proposed ultimate extraction footprint for the north quarry (EPA Ref. No. W0277-01).
- 1.37 The proposed principal waste activity at the site is backfilling of the existing quarry void using imported inert soil and stone. The amount of inert material to be backfilled and placed at the proposed site is 7.3M tonnes of which approximately 7.2M tonnes must be imported. The application area comprises a worked out quarry and surrounding land covering an area of approximately 35.9 hectares (86.5 acres).

DIFFICULTIES ENCOUNTERED WITH EIS COMPILATION

1.38 This Environmental Impact Assessment was compiled on the basis of published regional and local data and site-specific field surveys. No difficulties were encountered in compiling the required information.

ENVIRONMENTAL IMPACT ASSESSMENT SCREENING

1.39 The proposed continuance of use falls within the category of development listed under Schedule 5 – Part 2 (2) (b) of the Planning & Development Regulations, 2001:

'Extraction of stone, gravel, sand or clay, where the area of extraction would be greater than 5 hectares'

1.40 On the basis that the total overall final extraction footprint will be c.55.9 hectares, it is considered that an EIA is required.

AIMS OF THE ENVIRONMENTAL MPACT STATEMENT

- 1.41 An Environmental Impact Statement (EIS) is defined as 'a statement of the effects, if any, which the proposed development, if carried out, would have on the environment'. ¹As such it is a systematic evaluation of the positive and negative impacts of a project on both the natural and human environments.
- 1.42 The principal objectives of an Environmental Impact Statement are to:
 - Identify and / or predict the significant impacts of a development.
 - Identify what mitigation measures should be incorporated into the development to eliminate or reduce the perceived impacts.
 - Interpret and communicate the above information on the impact of the proposed development, in both technical and non-technical terms.
 - Assist the Local Planning Authority in the decision making process with respect to the associated planning application.

Format of the Environmental Impact Statement

1.43 To facilitate clarity, this EIS has been prepared in accordance with the Environmental Protection Agency (EPA) Guidelines (2002 & 2003). The EIS is sub divided into three parts, each with a number of sections and subsections. As an overview they comprise of:

SECTION 1 •

An introduction to the proposed development and a brief explanation of the aims and format of the EIS. It also identifies the various professional consultants who have contributed to this EIS.

SECTION 2

A detailed description of the proposed development, prepared by SLR Consulting Ireland in consultation with Roadstone Wood Limited. Section 2 also sets out the need for the development.

SECTIONS 3 to 13 •

Detailed information on all aspects of the existing environment, identifies potential impacts on the environment by the proposed development, and recommends mitigation measures to reduce or alleviate these impacts.

They are grouped under the following sub-sections:

- 3. Human Beings
- 4. Flora & Fauna
- 5. Soils & Geology

- Judity J. Noise & Vibration 10. Landscape and Visual Jired for any other 11. Cultural Heritagen Prediction 12. Material Association 13. Troff 13. Traffic and Transportation
- 14. The Interaction of the Foregoing
- The associated references, plates, figures and appendices (if applicable) are 1.44 provided at the endorf each section for Sections 1 - 14.
- 1.45 A 'Non-Technical Summary of the Environmental Impact Statement', is provided as a separate and self-contained document.

CONTRIBUTORS

- 1.46 Roadstone Wood Limited appointed SLR Consulting Ireland to prepare this Environmental Impact Statement in support of its Planning Application for the continuance of use at Huntstown Quarry, North Road, Finglas, Dublin 11.
- The contributors who have assisted SLR Consulting Ireland in the 1.47 preparation of this Environmental Impact Statement are identified in Table 1-2 below :

Торіс	Contributor	Company
Description of Development	Shane McDermott BSc. (Hons)	SLR Consulting
Human Beings	Shane McDermott BSc. (Hons)	SLR Consulting
Flora and Fauna	Steve Judge BSc (Hons)	SLR Consulting
Soils and Geology	Dr. John Kelly BSc. PhD, PGeo	SLR Consulting
Surface Water & Groundwater	Oliver Higgins BSc. (Hons) MSc.	SLR Consulting
Air Quality and Climate	Ann McCormack MSc. MA AIEMA	SLR Consulting
Noise and Vibration	Ann McCormack MSc. MA AIEMA	SLR Consulting
Landscape	Anne Merkle Dipl. Ing (FH) MILI	SLR Consulting
Cultural Heritage	Dr. Charles Mount	Consultant
Material Assets	Shane McDermott BSc. (Hons)	SLR Consulting
Traffic	Lim Paul BE MSc CEng	SLR Consulting
Material Assets Traffic Co-ordination of EIS	Tim Paul BA MSc CEng	SLR Consulting
- OBSENDO		

Table 1-2 List of Contributors

1.48 Each contributor has been fully briefed about the proposal and the background to it. They have also visited the site and are familiar with the local environment.

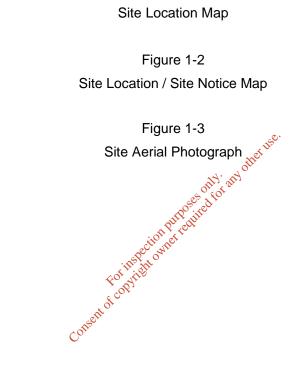
PRE-PLANNING CONSULTATIONS / EIS SCOPING

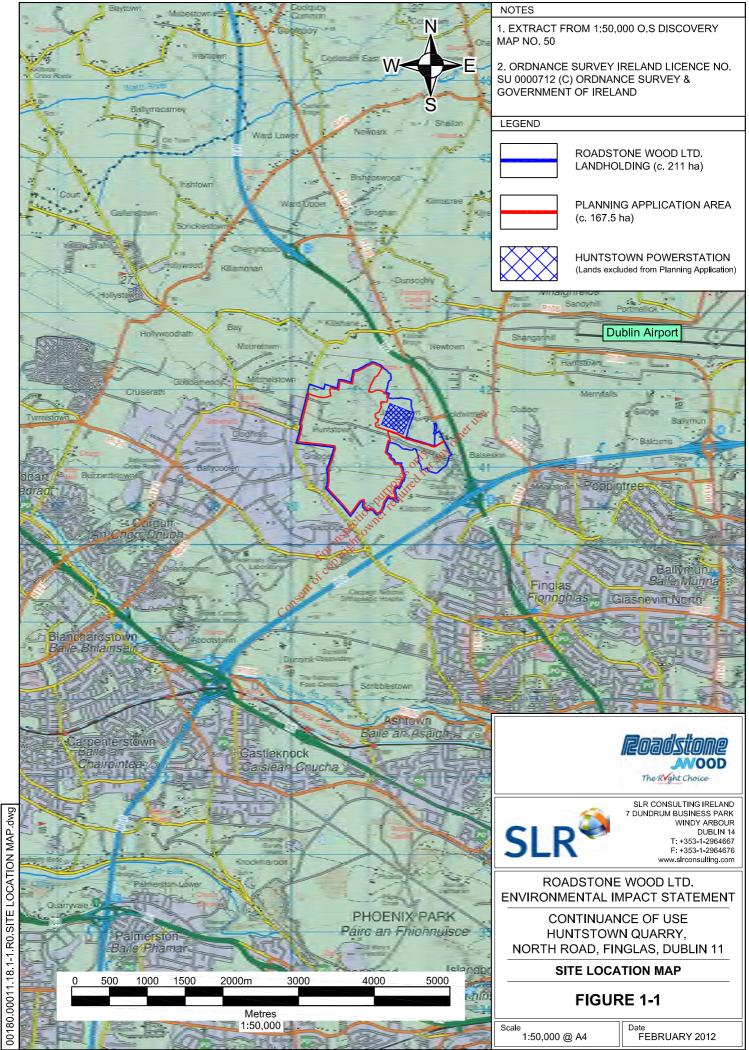
- 1.49 A Pre-Planning consultation report was prepared by SLR Consulting Ireland on behalf of Roadstone Wood Ltd. in January 2011. The purpose of the Report was to inform statutory and other consultees about the proposed development and of the topics to be covered in the EIA and described in the EIS.
- 1.50 A Pre-planning meeting was held with the Planning, Water Services and Transportation departments of Fingal County Council (Blanchardstown Area Office) on the 5th April 2011 to discuss the proposal.
- 1.51 Following the pre-planning consultation meeting, a copy of the Pre-Planning Development was sent to the following organisations and agencies;

- An Taisce. •
- Department of the Communications, Energy & Natural Resources
- Department of the Environment Heritage and Local Government • National Monuments Service.
- Environmental Health Services. •
- Geological Survey Ireland (GSI). •
- Health & Safety Authority (HSA). •
- Health Service Executive (HSE).
- Inland Fisheries Board.
- The Heritage Council. •
- National Parks and Wildlife Service. •
- Irish Aviation Authority (IAA) •
- Dublin Airport Authority (DAA)
- National Roads Authority (NRA).
- Fingal County Council: •
 - o Roads and Transportation.
 - Drainage and Water Services. 0
 - o Heritage.
 - Environment Section. 0
- other use. Other consultations and informal discussion held by contributors are detailed 1.52 in the specialist environmental sections of this Report, together with details of tik umenti, For inspection portex For inspection portex consent of convict to whether relevant archives and documentation held by state agencies and organisations.

FIGURES

Figure 1-1 Site Location Map





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