

## SECTION E – EMISSIONS

Sub-Section	Title	Location of Information
E.1	Emissions to Atmosphere	WLA p.25 and Attachment E.1 EIS Vol.1, Section 9.0
E.2	Emissions to Surface Waters	WLA p.25 and Attachment E.2 EIS Vol.1, Section 7.0
E.3	Emissions to Sewers	WLA p.25 and Attachment E.3 EIS Vol.1, Section 2.5
E.4	Emissions to Groundwater	WLA p.25 and Attachment E.4 EIS Vol.1, Section 7.0
E.5	Noise Emissions	WLA p.25 and Attachment E.5 EIS Vol.1, Section 10.4
E.6	Environmental Nuisances	WLA p.26 and Attachment E.6

Figure No.	Title	Scale	Size
E.1	Emissions Points	1:6,000	A3
E.2	Emissions Points	1:800	A3

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**ATTACHMENT E.1**  
**EMISSIONS TO ATMOSPHERE**

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## **E.1 EMISSIONS TO ATMOSPHERE**

This Attachment contains the appropriate documentation related to emissions to atmosphere and operation of the proposed Facility. Refer to Figures E.1 and Figure E.2 attached for further details.

### **E.1.a Composting Emissions**

Composting will not take place at the Facility; therefore this section is not applicable.

### **E.1.b Particulates – Waste Storage/Treatment/Handling**

All incoming waste will be stored in stockpiles near the processing area or on the surface of the wastes if processing is not required on passing inspection. A dust suppression system will be installed at the Facility to reduce particulate emissions. Stockpiles will be watered during dry periods to prevent wind blow of particulates. Refer to Section 9.0 of the EIS (Volume 1) for further information.

### **E.1.c Landfill Gas Emissions**

There will be no emissions to air from the existing landfill. Nearly all of the incoming wastes are expected to be inert Construction, Demolition and Excavation Wastes that will be held in temporary stockpiles prior to processing. Landfill gas production is unlikely.

### **E.1.d Landfill Leachate Emissions**

There will be no emissions to air from landfill leachate.

### **E.1.e Infectious organisms/pathogens (clinical waste handling)**

No hazardous waste will be accepted at the Facility. Any waste deemed unfit for processing will be turned away from the Facility or stored in the waste quarantine area on failing the second inspection. Removal of waste from this area will be undertaken by an appropriate contractor.

### **E.1.f Thermal oxidizer Emissions**

No thermal treatment of waste will take place at the Facility.

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## **E.1.g Other Emissions**

All plant operating at the Facility will emit fumes from the combustion of fuel. All plant and machinery at the Facility will be kept in good working order and serviced regularly in order to avoid abnormal levels of emissions.

## **E.1.h Fugitive Emissions**

All equipment, plant and services will be maintained and checked regularly to prevent fugitive emissions leaving the Facility. Refer to Section 9.0 of the EIS (Volume 1) for further information.

### **E.1.8.1 Dust emissions from solids stored in the open**

All incoming waste will be stored in stockpiles by the processing area or on the surface of the wastes, if processing is not required on passing inspection. During dry periods the potential of dust emission to the atmosphere may be increased. To tackle this, a dust suppression system will be installed at the C,D&E Waste Recovery Facility. Stockpiles will be watered during dry periods to prevent wind blow of particulates. Residence time of waste in stockpiles will be kept to a minimum to reduce dust emissions. Dust emissions may occur during earthworks and capping operation on the waste cells. These emissions will be controlled by water bowsers, spray mitigation systems and ceasing earthworks during particularly windy conditions. Refer to Section 9.0 of the EIS (Volume 1) for further information.

### **E.1.8.2 Loading and unloading operations**

Waste will be tipped at a specific stockpile near the processing area or on the surface of the wastes if processing is not required subsequent to passing inspection at the weigh bridge. Wheel loaders and excavators will be used to load the processing equipment. The graded material produced by the process will be either stockpiled or removed for the capping and restoration of the lagoon/pond areas. Wheel loaders will be used for this process. This material will be wetted during dry periods to reduce dust and particulate emissions. Refer to Section 9.0 of the EIS (volume 1) for further information.

### **E.1.8.3 Cleaning operations**

The processing area and haul roads will be swept and watered regularly to reduce particulates and dust blow during dry periods. It is not anticipated that any detergents will be used during cleaning. Any use of detergents will be communicated to the relevant authority.

#### **E.1.8.4 Emissions from wastewater/leachate treatment (e.g. volatile organics)**

No leachate will be treated at the Facility.

#### **E.1.8.5 Emissions from any pressure release valves on waste liquid tanks**

A foul water holding tank will collect and store foul from office buildings at the Facility. This will be emptied by an appropriate contractor when required.

#### **E.1.8.6 Emissions from composting, including odour and bioaerosols**

No composting shall take place at the facility.

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**TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE**  
**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	
Location :	
Grid Ref. (12 digit, 6E,6N):	
<b>Vent Details</b> Diameter:  Height above Ground(m):	NOT APPLICABLE
Date of commencement of emission:	

**Characteristics of Emission :**

CO		mg/m <sup>3</sup>
Total organic carbon (TOC)		mg/m <sup>3</sup>
NOx		mg/Nm <sup>3</sup> 0°C. 3% O <sub>2</sub> (Liquid or Gas), 6% O <sub>2</sub> (Solid Fuel)
Maximum volume of emission		m <sup>3</sup> /hr
Temperature	°C(max)	°C(min) °C(avg)

- (i) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
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**TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE** (1 Page for each emission point)

Emission Point Ref. N <sup>o</sup> :	
Source of Emission:	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter:	
Height above Ground(m):	
Date of commencement:	

**Characteristics of Emission :**

**NOT APPLICABLE**

(i) Volume to be emitted:			
Average/day	m <sup>3</sup> /d	Maximum/day	m <sup>3</sup> /d
Maximum rate/hour	m <sup>3</sup> /h	Min efflux velocity	m.sec <sup>-1</sup>
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources:			
Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____%O <sub>2</sub>			

(iii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr
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**TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission**  
(1 table per emission point)

**Emission Point Reference Number:** \_\_\_\_\_

Parameter	Prior to treatment <sup>(1)</sup>				Brief description of treatment	As discharged <sup>(1)</sup>					
	mg/Nm <sup>3</sup>		kg/h			mg/Nm <sup>3</sup>		kg/h.		kg/year	
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max
NOT APPLICABLE											

1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C, 101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.

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**TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive**

Emission point Reference Numbers	Description	Emission details <sup>1</sup>				Abatement system employed
		material	mg/Nm <sup>3(2)</sup>	kg/h.	kg/year	
A2-1	Dust blow from processing area.	Dust particles	unknown	unknown	unknown	Sprinkler system and spraying of stockpiles

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**ATTACHMENT E.2**  
**EMISSIONS TO SURFACE WATERS**

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## **E.2 EMISSIONS TO SURFACE WATERS**

Surface water run-off from the capped surface will be collected in perforated piped French drains running along the Southern boundary. These will flow into a Surface Water Management Pond where solids will be allowed to settle out before discharge into the IDA Sewer or Lough Mahon depending on its quality as discussed in Attachment D.4 Leachate Management. Refer to Figures E.1 and E.2 attached for details of locations.

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**TABLE E.2(i): EMISSIONS TO SURFACE WATERS**

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	SW1
Source of Emission:	Run-off from capped surface/restored site
Location :	Southern tip of Facility
Grid Ref. (10 digit, 5E,5N):	174520 , 71293
Name of receiving waters:	Lough Mahon
Flow rate in receiving waters:	<p><u>Not Applicable</u> <math>m^3 \cdot sec^{-1}</math> Dry Weather Flow</p> <p><u>Not Applicable</u> <math>m^3 \cdot sec^{-1}</math> 95%ile flow</p>
Available waste assimilative capacity:	kg/day

**Emission Details:**

(i) Volume to be emitted Unknown – Runoff from capped surface/restored site (weather dependent)			
Normal/day (estimated)	1,000m <sup>3</sup>	Maximum/day *	*15,000m <sup>3</sup>
Maximum rate/hour	* 5,000m <sup>3</sup>		

\* Assumed rainfall return period = 10 years

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day <u>200</u> day/yr
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**TABLE E.2(ii): EMISSIONS TO SURFACE WATERS -**

**Characteristics of the emission**

**Emission point reference number :** SW1

Assumed 1000 m<sup>3</sup>/day at 200 days/year

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
COD						25	25	5,000	
TSS						35	35	7,000	
Manganese						100	100	20,000	
Iron						10	10	2,000	
Zinc						0.5	0.5	100	
Copper						0.1	0.1	20	
Arsenic						0.1	0.1	20	
Lead						0.1	0.1	20	

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**ATTACHMENT E.3**  
**EMISSIONS TO SEWERS**

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## **E.3 EMISSIONS TO SEWERS**

Emissions to sewers will include discharge to the existing IPPC Licence No. P0389-01 discharge emission point SE1 (IDA sewer) which runs adjacent to the C,D&E Facility. This effluent will originate from the bunded fuel and Waste Quarantine and Storage areas. It not envisaged that these areas will generate large quantities of effluent. It is also proposed to discharge surface water currently in ponds and lagoons on-site into the IPPC emission discharge point SE1 (IDA sewer) as permitted by the IPPC Licence No. P0389-01. The proposed rate of discharge is 1,000 m<sup>3</sup>/day.

Surface water from the macadam area at the entrance will be discharged to the stormwater sewer running adjacent to the Site. Details of all emissions to sewers are listed below. Refer to Figures E.1 and E.2 for details of emission points.

### **E.3.a On-site or Off-Site treatment envisaged**

An oil interceptor will be used to treat run-off from the bunded fuel storage and loading area before entering the IDA sewer. Surface water run-off from the macadam area will pass through a silt box and oil interceptor before discharge to the stormwater sewer. Refer to Section 2.5 of the EIS (Volume 1)

### **E.3.b If for Off-site: The name of the sewage / WWTP undertaker and a copy of any agreement or permission by the undertaker to accept effluent**

Foul water will be collected in an underground storage tank. This will be emptied when required by an appropriately licensed contractor. A contractor will be appointed on granting of planning permission and Waste Licence. The contractor will use a Cork County Council WWTP.

### **E.3.c Any further treatment by the undertaker, existing or proposed**

No further treatment is envisaged at the Facility.

### **E.3.d Any problems of sewage treatment associated with the proposed emissions**

No problems are envisaged with sewerage treatment from the proposed emission. The surface water have a very low BOD and COD. Elevated levels of dissolved manganese and sulphate are present in the waters.

### **E.3.e Likely effects of the emissions on sewer or sewerage treatment maintenance operations**

It is not envisaged that the emission will effect the sewer or sewerage treatment maintenance operation.

### **E.3.f Capacity, quality and integrity of the sewer**

The capacity, quality and integrity of the stormwater and IDA sewers are not known.

### **E.3.g Likely effects of the emissions on sewer integrity**

It is not envisaged that the emissions from the Facility which operated for the past thirty years will not have any adverse effect on the integrity of the receiving IDA sewer.

### **E.3.h Possible reactions of the emission with other effluent likely to be in the sewerage system**

No reactions are expected between the emission and the sewerage system.

### **E.3.i Nature of final emission to the receiving water and the estimated volumetric contribution of the site emissions to the total wastewater treatment plant Dry Weather Flow expressed as a percentage**

The proposed Emission Limit Values for discharges to the IDA sewer at 1,000m<sup>3</sup>/day with no more than 100m<sup>3</sup>/hour are as follows.

Parameter	Units	Concentration
Temperature		Ambient Temperature
pH		6-9
Toxicity		10
COD	mg/l	25
Suspended Solids	mg/l	35
Manganese	mg/l	100
Iron	mg/l	10
Zinc	mg/l	0.5
Copper	mg/l	0.1
Arsenic	mg/l	0.1
Lead	mg/l	0.1



**TABLE E.3(A): EMISSIONS TO SEWER**

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	SE 1
Location of connection to sewer :	IDA Sewer
Grid Ref. (10 digit, 5E,5N):	174050 , 71654
Name of sewage undertaker:	Cork County Council (IDA Sewer)

**Emission Details:**

(i) Volume to be emitted:			
Normal/day	1,000 m <sup>3</sup>	Maximum/day	* 15,000 m <sup>3</sup>
Maximum rate/hour	* 5,000 m <sup>3</sup>		

\* If run-off from capped surface is pumped to IDA sewer and assumed rainfall return period =10 years

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr	__hr/day	<u>300</u> day/yr
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**TABLE E.3(B): EMISSIONS TO SEWER**

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	SE 2
Location of connection to sewer :	Stormwater Sewer
Grid Ref. (10 digit, 5E,5N):	174206 , 71689
Name of sewage undertaker:	Cork County Council

**Emission Details:**

(i) Volume to be emitted: Surface water run-off from macadam surface			
Normal/day	10 m <sup>3</sup>	Maximum/day	110 m <sup>3</sup>
Maximum rate/hour	* 40 m <sup>3</sup>		

\* Assumed return period = 10 years

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up / shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
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**TABLE E.3(C): EMISSIONS TO SEWER**

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	SE 3
Location of connection to sewer :	Discharge to foul water holding tank
Grid Ref. (10 digit, 5E,5N):	174117 , 71655
Name of sewage undertaker:	Unknown at this time

**Emission Details:**

(i) Volume to be emitted			
Normal/day	0.40 m <sup>3</sup>	Maximum/day	0.80 m <sup>3</sup>
Maximum rate/hour	0.08 m <sup>3</sup>		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up/shutdown to be included*):

Periods of Emission (avg)	_____min/hr	<u>10</u> hr/day	<u>300</u> day/yr
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**TABLE E.3(i): EMISSIONS TO SEWER - Characteristics of the Emission**

**Emission point reference number : SE1 (IDA Sewer)**

Assumed 1,000m<sup>3</sup>/day at 300 days/year

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
COD						25	25	7,500	
Suspended Solids						35	35	10,500	
Manganese						100	100	30,000	
Iron						10	10	3,000	
Zinc						0.5	0.5	150	
Copper						0.1	0.1	30	
Arsenic						0.1	0.1	30	
Lead						0.1	0.1	30	

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**TABLE E.3(ii): EMISSIONS TO SEWER - Characteristics of the Emission**

**Emission point reference number : SE2 (Stormwater From Macadam Surface)**

Assumed 1,800 m<sup>3</sup>/year (on average)

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	
COD						25		45	
Suspended Solids						35		65	

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**ATTACHMENT E.4**  
**EMISSIONS TO GROUNDWATER**

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## **E.4 EMISSIONS TO GROUNDWATER**

It is anticipated that there will be no direct emissions of List I/II substances or any other direct emissions to groundwater from the proposed C,D&E Waste Recovery Facility. Details of groundwater emissions at the C,D&E Waste Recovery Facility are listed below. There are emissions from the existing landfill that is licensed by the EPA. List II substances have been detected in the groundwater underlying the Application Site. However, based on reports previously submitted to the EPA these emissions are not likely having a significant effect on the bedrock aquifer or Lough Mahon (see O' Callaghan Moran and Associates Report September 2003. Refer to Figures E.1 and E.2 for locations.

### **E.4.1 Percolation Areas**

No percolation areas will be used at the Facility.

### **E.4.2 Soakaways**

All surface water from the hardcore turning area will divert to a soakaway pit located near the weighbridge station. Water collected in French drains along the boundary of the Site will be directed towards a silt box and subsequently to a soakaway. Refer to Section 2.0 and Section 7.0 of the EIS (Volume 1) for further details.

### **E.4.3 Others**

There shall be no other emissions to groundwater from the facility.

**TABLE E.4(i): EMISSIONS TO GROUNDWATER**

**Emission Point or Area:**

Emission Point/Area Ref. N <sup>o</sup> :	GW1
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	Soakaway
Location :	Adjacent to weighbridge Station
Grid Ref. (10 digit, 5E,5N):	174165 , 71643
Elevation of discharge: (relative to Ordnance Datum)	Ca. 5mAOD
Aquifer classification for receiving groundwater body:	Regionally Important Aquifer – Karstified (Diffuse)
Groundwater vulnerability assessment (including vulnerability rating):	Extreme
Identity and proximity of groundwater sources at risk (wells, springs, etc):	Not within or near a source protection zone
Identity and proximity of surface water bodies at risk:	Cork Harbour ca. 100m

**Emission Details:**

(i) Volume to be emitted: Surface water run-off from hardcore surface (weather dependent)			
Normal/day	80 m <sup>3</sup>	Maximum/day	* 1,000 m <sup>3</sup>
Maximum rate/hour	* 1,300 m <sup>3</sup>		

\* Assuming rainfall return period = 10 years and 100% run-off

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____min/hr _____hr/day <u>200</u> day/yr
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**ATTACHMENT E.5**

**NOISE EMISSIONS**

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## **E.5 NOISE EMISSIONS**

The main sources of noise emissions at the Facility are identified and supplied in Table E.5(i) of this WLA. Table E.5(ii) gives details of the noise emission emanating from the processing area. The main sources of noise will be concentrated around the processing area. Other areas of noise emissions would be from the movement of vehicles into, within and out of the Facility. Some of the plant will be involved in earthworks within the Facility from time to time. All calculations of noise levels emanating from the C,D&E Facility at the nearest dwelling and industrial property are tabulated in Section 10.0 of the EIS (Volume 1). Refer to Figures E.1 and E.2 attached for details of locations.

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**Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet**

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure <sub>1</sub> dBA at reference distance @ 10m	Octave bands (Hz) Sound Pressure <sub>1</sub> Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission
				31.5	63	125	250	500	1K	2K	4K		
Wheel Loader	N1		82										Operating Hours
JCB	N1		80										Operating Hours
JCB	N1		80										Operating Hours
Grader/ Screener	N1		86										Operating Hours
Compactor /Crusher	N1		90*										Operating Hours

1. For items of plant sound power levels may be used.  
\* Measured at 5m from the noise source

**Table E.5(ii) Noise Emission**

Source	Operating Equipment (wheel loaders, crusher, screener etc)
Location	Facility processing Area
Nature	Unknown
Composition	Not Applicable
Quantity	Not Applicable
Level	92.5dB (This is based on the Combined levels of plant and is a worse case scenario with all plant operating at the one time)
Rate	Not Applicable
Period or Periods	Operating Hours

**ATTACHMENT E.6**  
**ENVIRONMENTAL NUISANCES**

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## **E.6 ENVIRONMENTAL NUISANCES**

The following section describes the relevant emissions not dealt with in the preceding sections of Section E which may cause or contribute to nuisances in the area, where relevant.

### **E.6.1 Bird Control**

It is unlikely that birds will be attracted at the Facility as putrescible waste will be not accepted. However if it becomes an issue measures will be put in place deal with the problem.

### **E.6.2 Dust Control**

In order to ensure that no dust nuisance occurs at the facility a series of mitigation measures and good working practices will be implemented as part of a dust minimisation plan. These measures are outlined below:

- Site roads will be regularly cleaned and maintained as appropriate. Hard surface roads will be swept to remove mud and aggregate materials from their surface.
- Any un-surfaced roads will be restricted to essential site traffic only. Furthermore, any road that has the potential to give rise to fugitive dust will be regularly watered, as appropriate, during dry and/or windy conditions.
- A speed restriction will be adhered to at the facility.
- All vehicles exiting the site will make use of a wheel wash facility, prior to entering onto public roads, to ensure mud and other wastes are not tracked onto public roads.
- Public roads outside the site will be regularly inspected for cleanliness, and cleaned as necessary.
- Water misting or sprays will be used as required if particularly dusty activities, such as capping, are necessary during dry or windy periods.
- In partially dry windy conditions giving rise to dust blow, activities will be suspended if other measures are not effective in controlling dust.

### **E.6.3 Fire Control**

Measures for fire prevention and control will include the following:

- Emergency response contact numbers will be posted on prominent positions on site (fire service, police, ambulance and other agencies).

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- A telephone system on site will ensure instant contact with the emergency services.
  - A water supply will be available on site.
  - Fire hoses and extinguishers will be available on site.
  - No burning of waste will be permitted on site.

#### **E.6.4 Litter Control**

Litter is a management responsibility and procedures will be put in place to deal specifically with this issue. All vehicles transporting waste on public roads are required to be covered. It is not expected that that this will be an issue at the facility.

#### **E.6.5 Traffic Control**

The entrance will allow movement of traffic into and out of the Facility. Traffic signs and white lines will be used at the site entrance and throughout the site to control traffic. Speed limits will be imposed within the Facility.

#### **E.6.6 Vermin Control**

Vermin control is a management responsibility and will be put in to practice. This will involve placing of abatement at locations around the Facility and regular monitoring.

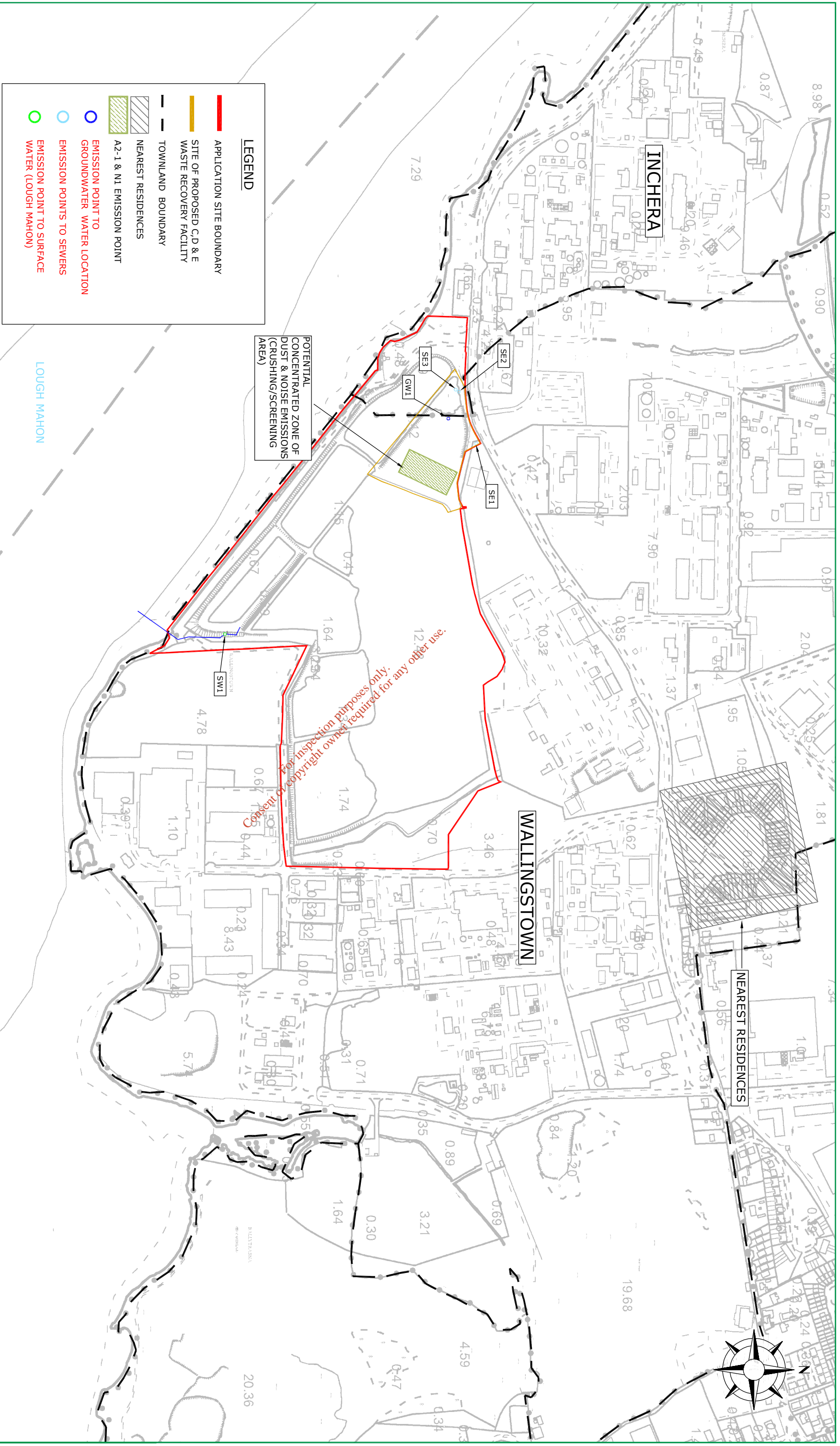
#### **E.6.7 Road Cleaning**

Road cleansing is a management responsibility and procedures will be put in place to deal specifically with this issue. All lorries will go through a wheel-wash prior to exiting the Facility. Road cleansing and sweeping will be carried out as required.

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Co-ordinates for Emissions & Monitoring Points

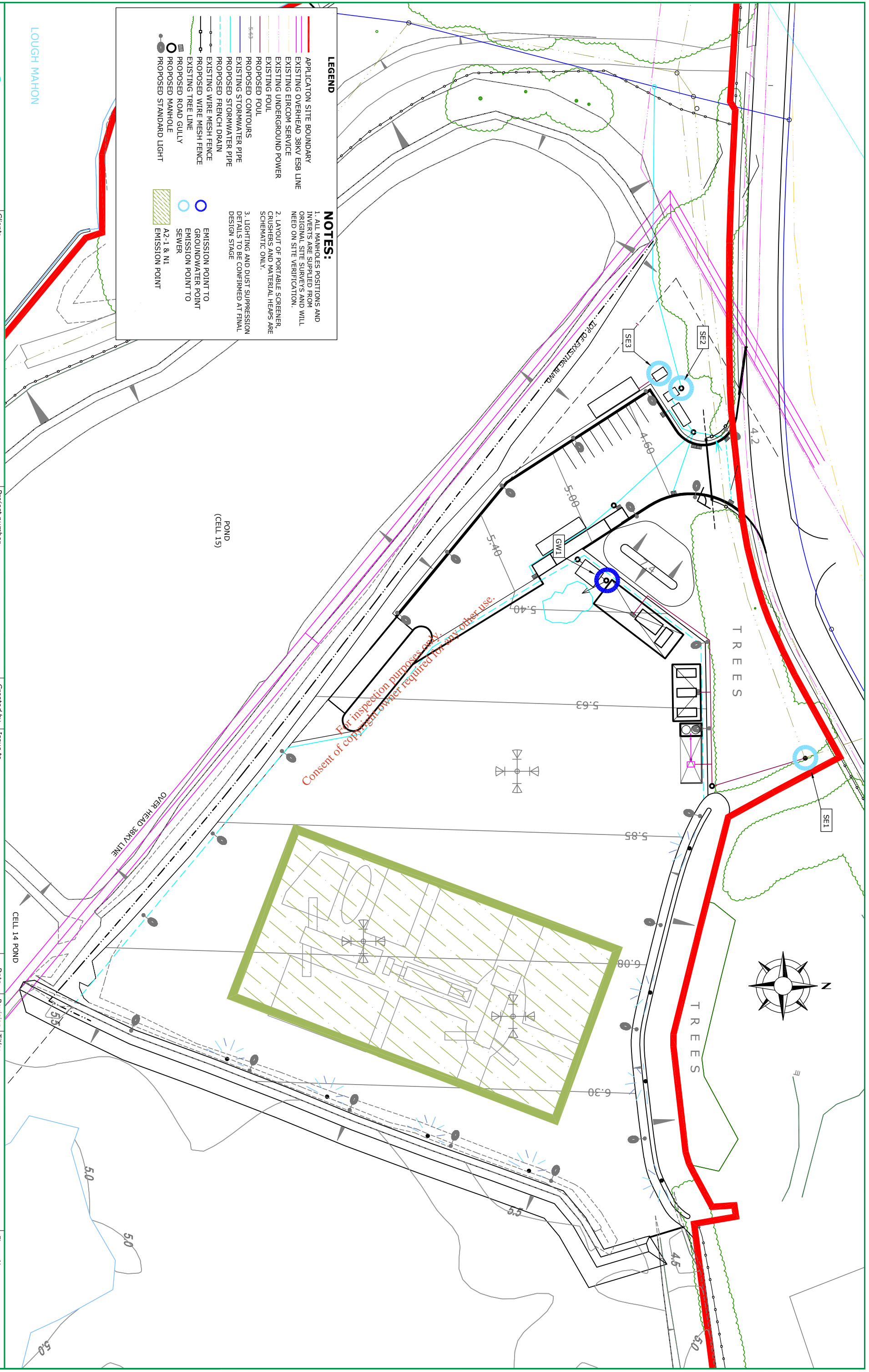
Location	Figure No.	Easting	Northing
SE1	E.1/E.2/F.1	174050	71654
SE2	E.1/E.2/F.1	174206	71689
SE3	E.1/E.2/F.1	174117	71655
GW1	E.1/E.2	174165	71643
MD 5	F.1	174065	71669
MD 6B	F.1	174313	71673
MD 7B	F.1	174465	71689
MD 8A	F.1	174574	71395
MD 9A	F.1	174340	71327
MD 10B	F.1	174767	71731
SW1	E.1	174520	71293
SW 2	F.1	174390	71393
SW 3	F.1	174231	71517
SW 4	F.1	174779	71681
SW 5	F.1	174880	71425
AD1	F.1	174537	71322
AD2	F.1	174186	71461
AD3	F.1	174566	71726
AD4	F.1	174900	71571
AN1	F.1	174537	71322
AN2	F.1	174186	71461
AN3	F.1	174070	71663
AN4	F.1	174455	71679
AN5	F.1	174763	71716
AN6	F.1	174900	71571
D1	I.1	174521	71245
D2	I.1	174819	71537
D3	I.1	174759	71827
D4	I.1	174540	71894
D5	I.1	174242	71722
D6	I.1	174195	71490
N1	I.1	174548	71508
N2	I.1	174819	71557
N3	I.1	174533	71212
N4	I.1	174221	71716
N5	I.1	174724	71995



<b>Client:</b> <b>THORNBUSH HOLDINGS Ltd.</b>		<b>Project number:</b> 07507120021		<b>Created by:</b> CC		<b>Issue to:</b> ISSUE TO CLIENT		<b>Date:</b> May '08		<b>Revision:</b> A		<b>Title:</b> EMISSION POINTS (1)		<b>Figure No.:</b> <b>E.1</b>	
<b>Location:</b> WALLINGSTOWN, LITTLE ISLAND, CO. CORK		<b>File Location:</b> GRAPHICS\2 LAND DEVELOPMENT (AUTOCAD)\THORNBUSH\WLA.E.1		<b>Checked by:</b> DK		<b>ISSUE TO EPA</b>		May '08		B		<b>Scale:</b> 1:3,000 A1 1:6,000 A3 1:9000 A4			
<b>Project:</b> WASTE LICENCE APPLICATION		<b>ORDNANCE SURVEY IRELAND LICENCE NUMBER:</b> AR0056008		<b>Reviewed by:</b> GP											







**LEGEND**

- APPLICATION SITE BOUNDARY
- EXISTING OVERHEAD 38KV ESB LINE
- EXISTING EIRCOM SERVICE
- EXISTING UNDERGROUND POWER
- EXISTING FOUL
- PROPOSED FOU L
- PROPOSED CONTOURS
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- PROPOSED FRENCH DRAIN
- EXISTING WIRE MESH FENCE
- PROPOSED WIRE MESH FENCE
- EXISTING TREE LINE
- PROPOSED ROAD GULLY
- PROPOSED MANHOLE
- PROPOSED STANDARD LIGHT

**NOTES:**

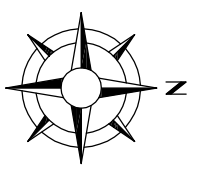
1. ALL MANHOLES POSITIONS AND INVERTS ARE SUPPLIED FROM ORIGINAL SITE SURVEYS AND WILL NEED ON SITE VERIFICATION.
2. LAYOUT OF PORTABLE SCRENER, CRUSHERS AND MATERIAL HEAPS ARE SCHEMATIC ONLY.
3. LIGHTING AND DUST SUPPRESSION DETAILS TO BE CONFIRMED AT FINAL DESIGN STAGE

EMISSION POINT TO GROUNDWATER POINT  
 EMISSION POINT TO SEWER  
 A2-1 & N1 EMISSION POINT

<p><b>Client:</b> <b>THORNBUSH HOLDINGS Ltd.</b></p>		<p><b>Project number:</b> 07507120021</p>		<p><b>Created by:</b> CC</p>		<p><b>Issue to:</b> ISSUE TO CLIENT</p>		<p><b>Date:</b> May '08</p>		<p><b>Revision:</b> A</p>		<p><b>Title:</b> EMISSION POINTS (2)</p>		<p><b>Figure No.:</b> <b>E.2</b></p>	
<p><b>Location:</b> WALLINGSTOWN, LITTLE ISLAND, CO. CORK</p>		<p><b>File Location:</b> GRAPHICS\2 LAND DEVELOPMENT (AUTOCAD)\THORNBUSH\WLA\E.2</p>		<p><b>Checked by:</b> DK</p>		<p><b>Issue to EPA:</b></p>		<p><b>Date:</b> May '08</p>		<p><b>Revision:</b> B</p>		<p><b>Title:</b> EMISSION POINTS (2)</p>		<p><b>Figure No.:</b> <b>E.2</b></p>	
<p><b>Project:</b> WASTE LICENCE APPLICATION</p>		<p><b>ORDNANCE SURVEY IRELAND LICENCE NUMBER:</b> AR0056008</p>		<p><b>Reviewed by:</b> GP</p>		<p><b>Scale:</b> 1:400 A1 1:800 A3 1:1200 A4</p>									



LOUGH MAHON



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