



**Waste Licence Application  
For  
Listowel Civic Amenity Centre**

**ARTICLE 12 COMPLIANCE REQUIREMENTS**

**Prepared for:**  
Environmental Protection Agency

**Prepared by:**  
Malachy Walsh & Partners,  
Park House,  
21 Denny Street,  
Tralee,  
Co. Kerry.

**April 2006**



## A. Location of Activity

The National Grid Reference of the facility is: E98311 N132690  
Corrections are reflected in the revised non-technical summary

## B. Infrastructure and Operation

### (1)

In relation to drawings 10599-0001 and 10599-2001 the locations for the hazardous goods and bring bank areas are outlined correctly in Drawing No. 10599-2001.

Accordingly, Drawing No. 10599-0001 is now replaced with revised Drawing No. 10599-0001 Rev. B

### (2)

The storage area for household hazardous waste is a semi-enclosed structure. See Drawing No. 10599-4001. The roof on this structure will eliminate rainwater accumulation and subsequent disposal difficulties and costs.

For preliminary design, guidelines provided in BAT Guidance Notes for the Waste Sector have been followed. Also, reference has been made to the EPA Guidance Note on Storage and Transfer of Materials for Scheduled Activities 2003.

Final design of the bunded area beneath the structure will be in accordance with BS 8007: 1987 - Code of Practice for Design of Concrete Structures for Retaining Aqueous Liquids.

Separate dedicated storage areas will be provided for different classes of household hazardous waste and where necessary primary containment will be provided in the form of proprietary bunded containers, relevant to specific household hazardous waste.

Secondary containment will be in the form of an open-topped bund at 500mm below ground level, with a steel open grid floor provided. This secondary containment facility will provide retention in the event of loss of containment in the primary system.

The semi-enclosed structure will be of steel portal-frame construction, which is consistent with the materials to be stored. It will include a clad roof and exterior, both constructed of non-combustible cladding.

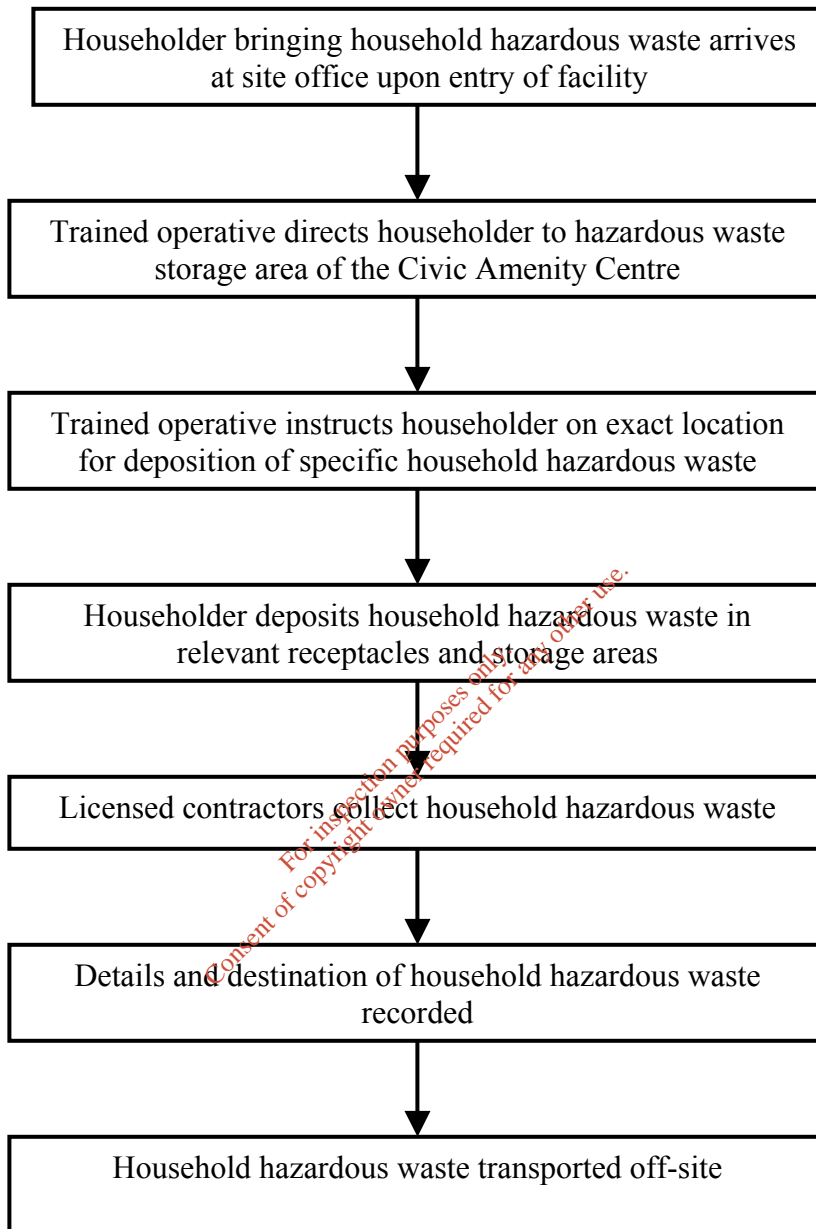
**(3)**

In the event of householders bringing household hazardous waste to the facility, the site operative, trained and certified in the handling of these waste types, will instruct the householder to bring the specific waste to the relevant receptacle in the household hazardous waste storage area. This is outlined in the Flow Diagram below.

Due consideration will be given to the labelling, handling and storage of all hazardous waste to ensure that hazardous waste from one category will be separated from hazardous waste from another.

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

**Flow Diagram**  
**Unit Operation for the Acceptance of Household Hazardous Waste**



**C. Emissions**

**TABLE E.2(i): EMISSIONS TO SURFACE WATERS**  
(One page for each emission)

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	<b>SW1</b>
Source of Emission:	Storm Water runoff, diverted via a Class 1 full retention interceptor, from areas that are NOT used for the storage and handling of waste - flexible paved areas including all site roads and pedestrian walkways
Location :	Emission point is located at the North East of the site. See Drawing No. 10599-0013
Grid Ref. (10 digit, 5E,5N):	98029E 132544N
Name of receiving waters:	Perimeter drain ultimately joining the Feale River
Flow rate in receiving waters:	_____(Feale River) 0.41 m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow _____(Feale River) 1.3 m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow
Available waste assimilative capacity:	Information not available <span style="float: right;">kg/day</span>

**Emission Details:**

(i) Volume to be emitted
--------------------------

Normal/day	m <sup>3</sup>	Maximum/day	50mm/day for a 5yr return = 160m <sup>3</sup>
Maximum rate/hour	50mm/hr for a 5min duration = 160m <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)	Will only occur during periods of precipitation min/hr ____hr/day ____day/yr
---------------------------	---

**TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission** (1 table per emission point)

*Emission point reference number* : SW1 (see Note 1 below)

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	
pH									
BOD		<2.0							
COD		5.7							
Suspended Solids		<2.0							
Total Phosphorus as P		0.07							
Ammonia NH <sub>4</sub>		<0.1							
Nitrate NO <sub>3</sub>		10.6							
Nitrite NO <sub>2</sub>		<0.1							
Molybdenum Reactive Phosphorus as P		0.030							

**Note 1:**

To date the site of the proposed Civic Amenity Facility is a Greenfield Site. The parameters and values listed in the table above are results of a baseline monitoring survey carried out. For this reason, analysis results are not a true representation of maximum daily average values and there can be no values for parameter values 'as discharged' or ' % efficiency'.

It is proposed, upon operation of the facility, to carry out surface water monitoring as required on samples taken from the manhole located before the oil interceptor and again after the oil interceptor. Monitoring locations are outlined in Drawing No.10599-0014

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

**Emission Point:**

Emission Point Ref. N <sup>o</sup> :	<b>SW2</b>
Source of Emission:	Foul water including surface water from areas used for the storage and handling of waste, diverted via the on-site wastewater treatment unit
Location :	Emission point is located at the North East of the site. See Drawing No. 10599-0013
Grid Ref. (10 digit, 5E,5N):	98029E 132544N
Name of receiving waters:	Perimeter drain ultimately joining the Feale River
Flow rate in receiving waters:	(Feale River) 0.41 m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow (Feale river) 1.3 m <sup>3</sup> .sec <sup>-1</sup> 95%ile flow
Available waste assimilative capacity:	Information not available kg/day

**Emission Details:**

(i) Volume to be emitted
--------------------------

Normal/day	0.90m <sup>3</sup> (on a dry day)	Maximum/day	22.00m <sup>3</sup>
Maximum rate/hour	(15/5min) 22.0m <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)	During operating hours of facility and during periods of precipitation min/hr _____ hr/day _____ day/yr
---------------------------	--



Emission point reference number : SW1 (see Note 2 below)

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	
pH									
BOD									
COD									
Suspended Solids									
Phosphorus P									
Ammonia NH <sub>4</sub> <sup>+</sup> -N									
Nitrate NO <sub>3</sub> -N									
Detergents									

For inspection purposes only.  
Consent of copyright owner required for any other use.

## **Note 2**

To date the site of the proposed Civic Amenity Facility is a Greenfield Site. Therefore, there can be no analysis results for effluent discharged to surface water or values for 'as discharged' or '% efficiency'.

It is proposed, upon operation of the facility, to carry out surface water monitoring as required on samples taken from the manhole located before the on-site wastewater treatment unit and again after the wastewater treatment unit.

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

## D. Control and Monitoring

Drawing No.10599-0014 is a labelled map of the facility, indicating the position of all proposed monitoring locations for all relevant environmental media

Tables F.2 F.3 and F.4 below are completed for the monitoring of surface water, noise and dust.

**TABLE F.2: EMISSIONS MONITORING AND SAMPLING POINTS - ( 1 table per media)**

*Emission Point Reference No(s).* : S1, S2, S3, S4, S5 (See Note 3)

Parameter	Monitoring frequency	Accessibility of Sampling Points
S1 Surface Water	Baseline monitoring	N/A
S2 Surface Water	Bi-annually	Easily accessible: on-site manhole
S3 Surface Water	Bi-annually	Easily accessible: on-site manhole
S4 Surface Water	Bi-annually	Easily accessible: on-site manhole
S5 Surface Water	Bi-annually	Easily accessible: on-site manhole

### Note 3

A baseline survey has already been carried out at S1, results of which are shown in Table E.2 (ii)

Emission point reference no.'s S2, S3, S4 and S5 are proposed monitoring locations

**TABLE F.3: EMISSIONS MONITORING AND SAMPLING POINTS - ( 1 table per media)**

*Emission Point Reference No(s) :* D1, D2, D3, D4 (See Note 4)

---

<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Accessibility of Sampling Points</b>
D1 Dust	Baseline and annually	Easily accessible: located on site at north-eastern site boundary
D2 Dust	Baseline and annually	Easily accessible: located on site at western site boundary
D3 Dust	Baseline and annually	Easily accessible: located on site at eastern site boundary
D4 Dust	Baseline and annually	Easily accessible: located on site at south-western site boundary

**Note 4**

Baseline monitoring has already been carried out at emission point reference no.'s D1, D2, D3 and D4. Annual monitoring is proposed at these locations

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

**TABLE F.4: EMISSIONS MONITORING AND SAMPLING POINTS - ( 1 table per media)**

*Emission Point Reference No(s) :* N1, N2, N3, N4, N5 (See Note 5)

<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Accessibility of Sampling Points</b>
N1 Noise	Baseline and annually	Easily accessible: located at east corner of site, 20m from facade of Broderick industrial unit
N2 Noise	Baseline and annually	Easily accessible: located within north-western boundary of Listowel mart and at 150m from house to the north west
N3 Noise	Baseline and annually	Easily accessible: either through mart grounds to extreme southwestern boundary of mart grounds or via third class road and access through gate.
N4 Noise	Baseline and annually	Easily accessible: directly off of the N69 on driveway of private house located 200m southeast of site
N5 Noise	Baseline and annually	Easily accessible: via third class road 300m northeast of site.

**Note 5**

Baseline monitoring has already been carried out at emission point reference no.'s N1, N2, N3, N4 and N5. Annual monitoring is proposed at these locations

---

**REVISED LIST OF APPENDICES**

---

<b>Appendix 1</b>	Drawing No. 10599-0001 Drawing No. 10599-0001 Rev B	Preliminary Layout Preliminary Layout
<b>Appendix 2</b>	Drawing No. 10599-1001	Main Entrance
<b>Appendix 3</b>	Drawing No. 10599-2001	Drainage Services Layout
<b>Appendix 4</b>	Drawing No. 10599-2003	Services Layout
<b>Appendix 5</b>		Newspaper containing advertisement
<b>Appendix 6</b>	Drawing No. 10599-0013	Emissions to Surface Water
<b>Appendix 7</b>	Drawing No. 10599-0014	Monitoring Points
<b>Appendix 8</b>	Drawing No. 10599-4001	Hazardous Goods Area

For inspection purposes only.  
Consent of copyright owner required for any other use.



**Waste Licence Application  
For  
Listowel Civic Amenity Centre**

**REVISED NON-TECHNICAL SUMMARY**

**Prepared for:**  
Environmental Protection Agency

**Prepared by:**  
Malachy Walsh & Partners,  
Park House,  
21 Denny Street,  
Tralee,  
Co. Kerry.

**April 2006**



## **Non-Technical Summary**

This revised Non-Technical Summary includes information on those aspects outlined in the Waste Licensing Application Guidance Note and complies with the requirements of Article 12(1)(u) of The Waste Management (Licensing) Regulations, S.I. 395 of 2004. Sub-articles (a) to (t) of Article 12(1) are addressed below.

For clarity, the paragraph numbering is in accordance with the numbering of Article 12(1), (a) to (t)

### **Article 12(1)(a) – Applicant Details**

Name, address, telephone and fax of the applicant:

Kerry County Council  
Environmental Department  
Waste Management Section  
Maine Street  
Tralee  
Co. Kerry

Telephone: 066 7162000

Fax: 066 7162001

*For inspection purposes only.  
Consent of copyright owner required for any other use.*

### **Article 12(1)(b) – Name of Planning Authority**

Name of the Planning Authority in whose functional are the relevant activity will be carried on:

Kerry County Council



### **Article 12(1)(c) – Sanitary Authority**

Not applicable

### **Article 12(1)(d) – Facility Details**

Address of facility:

Listowel Civic Amenity  
Tanavalla Industrial Estate  
Garryantanvally,  
Tralee Road  
Listowel  
Co. Kerry

National Grid Reference of facility:

E98311      N132690

### **Article 12(1)(e) – Nature of the Facility**

The proposed facility will provide a facility for the Listowel community to deposit recyclable household items and also bags of household mixed waste as required.

Waste for recycling/recovery will include cardboard, paper, plastics, glass bottles, aluminium cans, food cans, textiles, metals, timber, rubble, household construction and demolition wastes, white goods and electrical goods.

Provisions will also be made for the recycling/recovery of domestic quantities of hazardous waste such as batteries, household paints and chemicals, varnishes and fluorescent tubes.

The proposed capacity of the facility is:  
1500 tonnes per annum household mixed waste  
800 tonnes per annum recyclables

### **Article 12(1)(f) – Classes of Activities**

#### Third Schedule – Waste Disposal Activities

- Class 12: Repackaging prior to submission to any activity referred to in a preceding paragraph of this schedule.
- Class 13: Storage prior to submission to any activity referred to in a preceding paragraph of this schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.

#### Fourth Schedule – Waste Recovery Activities

- Class 2: Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes)
- Class 3: Recycling or reclamation of metals or metal compounds
- Class 4: Recycling or reclamation of other inorganic materials
- Class 13: Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

## Article 12(1)(G) – Quantity and Nature of Wastes

**Table A.1.1 - Quantity and Nature of Wastes<sup>1</sup>**

<b>Material</b>	<b>European Waste Catalogue Code</b>	<b>Tonnes per annum</b>
Mixed Waste	20 03 01	1500
Paper and Cardboard	20 01 01	160
Tetrapaks	15 01 05	10
Textiles	20 01 11	30
Metals	20 01 40	70
Timber	20 01 38	60
Household Construction & Demolition Waste	17 01 07	100
Garden Waste	20 02 01	200
Electronic and Electrical Waste	20 01 36	10
White Goods	20 01 36	60
Glass	20 01 02	40
Food Cans	20 01 05	10
Aluminium Cans	20 01 05	5
Plastic Bottles	20 01 39	10
<b>Hazardous Goods</b>		<b>15 total</b>
Waste Edible Oil and Fat	20 01 25	
Waste Hydraulic Oils	13 01 00	
Waste Engine Gear and Lubricating Oils	13 02 00	
Batteries	20 01 33	
White Good Components	20 01 23	
Electronic and Electrical Waste Components	20 01 35	
Paints, Inks, etc	20 01 27	
Pesticides	20 01 19	
Solvents	20 01 13	
Fluorescent Tubes	20 01 21	

Note 1: By reference to the relevant European Waste Catalogue Codes s presented by Commission Decision 2000/532/EC of May 2000.

## **Article 12(1)(h) – Raw Materials**

With the exception of construction materials, there will be no consumption of raw materials at the site, other than fuels and energy. No packaging materials will be used, as waste will be transferred directly in containers and compacted

A backhoe loader, which will be used on site, will run on diesel fuel and will consume approximately 1000 litres/annum.

The compactor, lighting and all other ancillaries will consume electrical energy.

Once records are available, more accurate figures can be forwarded to the Agency.

## **Article 12(1)(i) – Plant, Methods and Operating Procedures**

The plant at the facility will consist of the following:

- Vehicle weighbridge  
An 18 metre long, 60 tonne capacity, electronically controlled weighbridge, with computer software for control.
- Waste compactor  
The type and model of compactors will depend on cost, availability, practicality, etc.
- Skid steer loader/Backhoe loader  
The type and model of loader will depend on cost, availability, practicality, etc.

The basic methods and operating procedures will be as follows:

The civic waste facility will be constructed on two levels. Members of the public will be allowed access to the upper level in order to deposit waste in the receptacles provided. Bags of domestic waste delivered to the site by individuals are counted, a charge levied, and then deposited in the compactor unit. The originator and quantity of materials delivered to the facility will be recorded.

Only licensed hauliers will have access to the lower level in order to remove those receptacles that are full of waste. Refuse vehicles arriving at the facility will be weighed and directed to the lower level for removal of waste.

On exit, prior to dispatch from the facility, details such as weight, destination and nature of waste and recyclables are recorded.

Specialist recyclers will service the various receptacles. Specialist waste handlers will collect the hazardous waste for treatment off-site. A self-contained compactor will be included for the deposit of bags of household waste by the public. Filled containers will be transferred off-site for final disposal to landfill. A self-contained compactor will also be included for the deposit of cardboard. The type and model of compactors will depend on cost, availability, practicality, etc.

#### **Article 12(1)(j) – Emissions from The Site**

In relation to paragraphs (a) to (g) of Section 40(4) of the Act, Kerry County Council wishes to highlight the following:

##### **(A)**

A range of management techniques, elimination techniques and control techniques, in accordance with BAT Guidance Notes for the Waste Sector: Transfer Activities (Draft, November 2004) will be implemented to eliminate or reduce emissions from the facility.

## Noise

Noise emissions may arise from operational plant as well as traffic to and from the site. Compaction operations and traffic movements to and from the site will however be limited to normal opening hours and so operations at the facility will not be expected to have a significant impact on existing background noise levels.

A noise monitoring survey has been carried out to establish background noise levels at the site of the proposed facility. Results of this survey were established in the third week of December 2005 and forwarded to the Agency accordingly. This will provide background data with which to assess the impact of noise at the facility once it is operational. Further noise monitoring will be carried out annually

## Dust

Compacted waste will be stored in sealed containers. The entire site will be paved. These measures, together with good housekeeping practices and staff awareness will minimise dust emissions.

Ambient dust monitoring carried was out in October and November 2005. Results of this survey were established at the beginning of December 2005 and forwarded to the Agency accordingly. This will provide background data with which to assess the impact of operations at the facility. Further dust monitoring will be carried out annually.

## Odour

The waste received at the facility is unlikely to give rise to odours due to the following measures:

- The waste will have undergone relatively little decomposition
- Waste for disposal shall be compacted within 12hrs of acceptance at the facility
- The quick turnaround times for the waste entering and leaving the facility. All compacted mixed municipal waste or waste with the potential to cause odour nuisance, shall be removed from the facility within 48hrs of being compacted at the site, with the exception of Bank Holiday weekends, when a limit of 72hrs shall apply.

- The transfer and compaction of waste in sealed containers
- The storage of compacted waste in sealed containers.
- Construction and demolition waste, dry recyclable materials and wood shall not be stored on site for a period longer than 3 months.

### Surface/Storm water

Surface water run-off from areas used for the storage and handling of waste will be diverted via the on-site wastewater treatment unit to a perimeter drain to the NE of the site and ultimately to the River Feale, thus minimising the potential for surface water contamination.

Surface water run-off from areas of the facility, which are not used for the storage and handling of waste, will be collected in the surface water drainage system and diverted via a Class 1 full retention interceptor to a perimeter drain to the NE of the site and ultimately to the River Feale.

All roads and hard standing areas will be impermeable. At permeable areas, such as grass or landscaping adjacent to impermeable surfaces, there will be kerbing to prevent run-off from the impermeable surfaces onto this ground.

The storage of waste in sealed containers will minimise the potential for leachate generation at the site.

Surface water monitoring has been carried. Results were established week ending 25<sup>th</sup> November 2005 and forwarded to the Agency accordingly.

Samples will be taken from locations before and after the interceptor and sent for analysis twice a year. Results will be forwarded to the Agency.

## Sewage/Wastewater

There will be no emissions to sewer from the facility, as foul sewage generated on the site will not be discharged to a municipal foul sewer.

Foul sewage generated at the facility will pass through a waste water treatment unit, which will satisfy the criteria set out in the Wastewater Treatment Manual “Treatment Systems for Single Houses”, published by the Agency and discharged to a perimeter drain to the NE of the site and ultimately to the River Feale.

Samples will be taken from locations before and after the wastewater treatment unit and sent for analysis twice a year. Results will be forwarded to the Agency.

### **(B)**

The impact of the facility on various environmental media is addressed in Attachment I. It is concluded that activities at the site will not result in the generation of significant environmental pollution.

### **(BB)**

Not applicable – activity concerned does not involve the landfill of waste.

### **(C)**

Technologies to be used at the facility will be state-of-the-art for the waste industry. BATNEEC will be demonstrated at the site by:

- Use of electronically-controlled weighbridge to control waste enter and leaving the site
- Use of compactor for the compaction of mixed waste and cardboard
- Use of sealed trailers for the storage and transportation of waste

### **(CC)**

The counties of Limerick, Clare and Kerry, incorporating the Local Authorities of Limerick County Council, Limerick Corporation, Clare County Council and Kerry



County Council Agreed to jointly prepare a Waste Management Plan in accordance with the Waste Management Act 1996 and The Waste Management (Planning) Regulations 1997. This Waste Management Plan, adopted in September 2001, sets out the proposed policy for the following 25 years including “the planning, regulation, collection, recycling, recovery and disposal of such wastes in accordance with current national and EU waste legislation and policy”

The policy sets out the national targets, which will apply to waste management by local authorities.

Included in the new waste recycling targets are:

- Diversion of 50% of overall household waste away from landfill
- Minimum of 65% reduction in biodegradable waste consigned to landfill
- Recycling of at least 35% of municipal waste

These new national targets are to be achieved within fifteen years of development of The Waste Management Plan, and are intended to fulfil our obligations under EU legislation. Average household recycling for the Region in 2003 was 12%. The recycling target for the Region for 2013 is 45%. Introduction of a new Recycling Centre, such as the proposed Listowel Civic Amenity, will help to achieve these targets.

**(D)**

The applicant, being Kerry County Council, is a Local Authority and is therefore a fit and proper person to hold a Waste Licence.

**(E)**

Not applicable– Kerry Co. Council is the applicant

**(F)**

Energy efficiency has been considered in the design of the facility, including measures such as:

- The consideration of energy saving opportunities in storage areas, control rooms and offices required for the activity. For example – PIR sensors, compact fluorescent lights
- Ensuring energy efficient equipment is used.
- Ensuring equipment is serviced and maintained regularly
- Ensuring equipment is switched off, if safe to do so, when not in use

**(G)**

Noise from the activity will comply with any regulations under section 106 of the Act of 1992. See (A) above.

**(H)**

Information is given in Attachment J on all measures and procedures, which are proposed, for the prevention of accidents in the carrying on of activities at the Civic Amenity Facility. Information is also given on proposed measures and procedures for the minimisation of effects on the environment from accidental emissions and emergency situations, which may arise, should an accident occur.

**(I)**

Information is given in Attachment K on the details of the proposed decommissioning of the site. This outlines the necessary measures that will be taken upon the permanent cessation of activities at the Civic Amenity Facility.

## Article 12(1)(k) – Nature of Emissions

Activities at the facility will not have an impact on the hydrogeology of the area. Waste will be stored in sealed containers, thus minimising the likelihood of leachate production at the site.

Any accidental chemical spillage will be contained on site and treated immediately.

All waste handling and storage will take place on concrete hard standing areas. Run-off from these areas will be conducted via a foul sewer to the on-site wastewater treatment unit.

Surface water run-off from hard standing areas that are not used for the storage or handling of waste will be collected in the surface water drainage system, which discharges to a perimeter drain and ultimately to the River Feale, having passed through an interceptor as a precautionary measure. It is expected that these emissions will only occur during periods of precipitation.

There will not be any significant impacts on air quality as a result of operations at the facility. This is due to:

- Quick turn-around time for waste entering and leaving the facility
- Storage of waste in sealed containers
- Prevention of point source emissions

Exhaust emissions from vehicles entering and leaving the facility will have a minimal effect on ambient air quality.

Due to the nature of the facility and the road construction, it is envisaged that no significant dust emissions will be generated.

Noise emissions may arise from operational plant and vehicles during normal operating hours. These emissions will not however have significant impact on existing background levels.

#### **Article 12(1)(l) – Effect of Emissions**

Storm water run-off from areas of the site, which are used for the storage and handling of waste, will be conducted via a foul sewer to the on-site wastewater treatment system. This discharge is unlikely to have a significant effect on the receiving environment - treatment levels achieved in the system will prevent the treated wastewater from polluting groundwater whilst protecting the environment.

Storm water run-off from areas of the site, which are not used for the storage or handling of waste will discharge via a Class 1 full retention oil interceptor to a perimeter stream and ultimately to the River Feale. This discharge is unlikely to have a significant effect on the receiving environment.

The use of BATNEEC techniques and controls will ensure that operations at the facility will have minimal impact on background noise levels. Noise monitoring will be carried out annually to determine the impact of activities at the facility on ambient noise levels.

#### **Article 12(1)(m) – Monitoring and Sampling Points**

Air, noise and surface water monitoring were carried out at a number of locations on or near the proposed site. The results of this monitoring will provide baseline data, which can be used to assess the impact of activities at the site on the environment. Air, noise and surface water monitoring will be carried out during the operational life of the facility.

## **Article 12(1)(n) and (o) – Off-site Treatment or Disposal of Waste**

Specialist recyclers will transport recyclable and reusable material arising from the Civic Amenity Centre to appropriate recycling centres.

Specialist waste handlers will transport domestic hazardous waste off-site for disposal or recovery.

Compacted mixed waste will be delivered for disposal at The North Kerry Landfill, where it will be further inspected when tipped.

## **Article 12(1)(p) – Unauthorised or Unexpected Emissions**

The only envisaged unauthorised or unexpected emission from the site is that which may result from an accidental spillage of oil or fuel from vehicles using the site or an accidental spillage of dangerous/hazardous liquids. In the unlikely event of such an emission, the operator will ensure that:

- The spill is contained and cleaned up immediately
- The incident is recorded
- The EPA are notified
- Samples are taken and sent for external analysis

A spillage of greater than 100 litres of liquid will be treated as an emergency.

In the event that monitoring or sampling indicates that contamination has occurred, Kerry County Council will carry out an investigation to identify the source of the contamination. Furthermore, appropriate measures will be put in place to prevent further contamination occurring again in the future.

### **Article 12(1)(q) – Closure and Restoration**

At present there are no plans to decommission the facility. Due to the fact that waste is not permanently held at the facility, it will not reach capacity at a certain point in time. In theory, the facility can operate indefinitely as waste merely passes through.

In the event of a permanent cessation of operations at the facility, Kerry County Council will provide the EPA with at least six months notice of closure. Following the cessation of operations, closure and restoration works would be carried out and all plant used at the facility removed.

### **Article 12(1)(r) – Financial Provision**

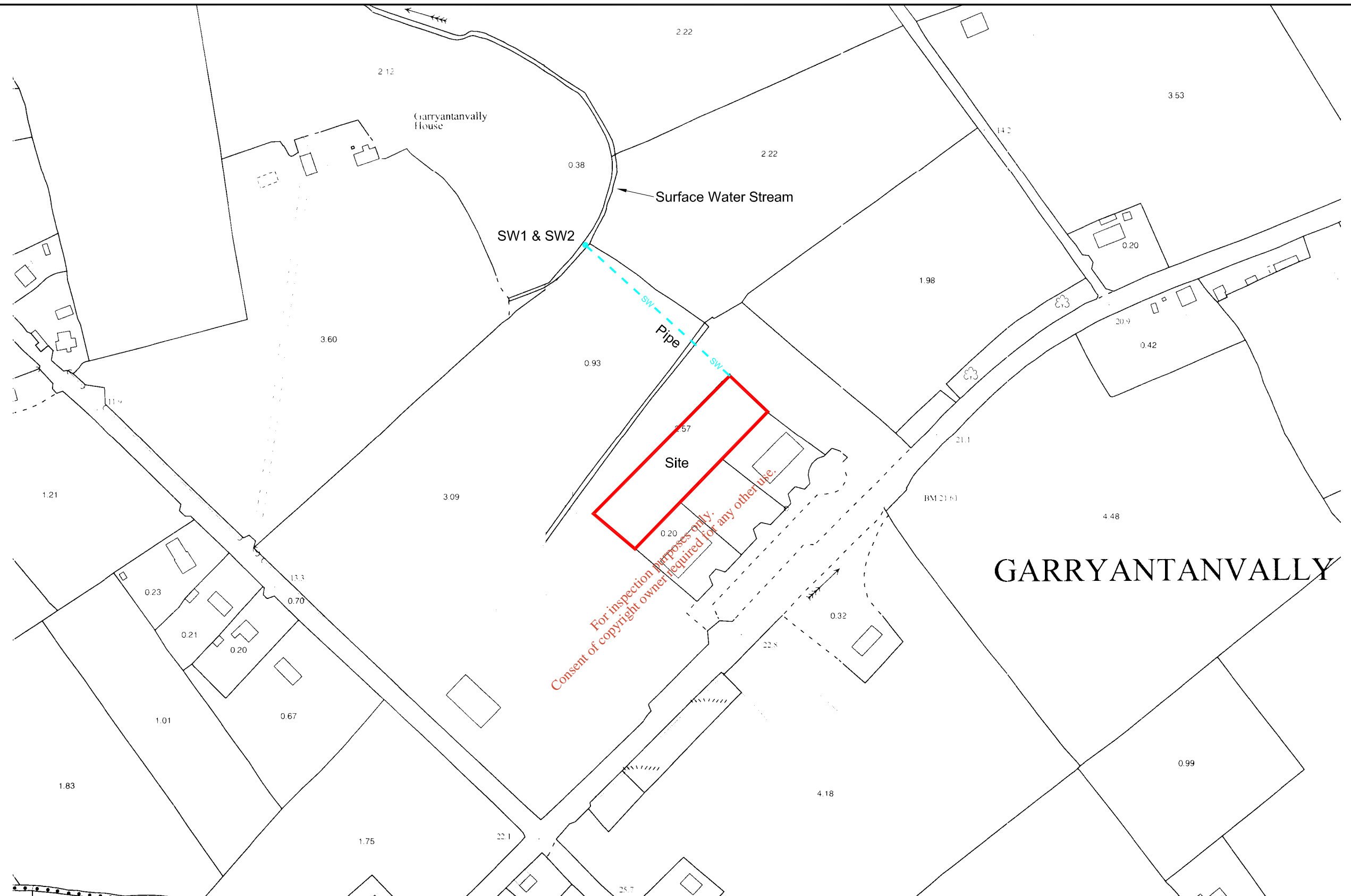
Not applicable – applicable only to an application in respect of the landfilling of waste.

### **Article 12(1)(s) – S.1. No. 476 of 2000**

Not applicable – The activity is not for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2000 apply

### **Article 12(1)(t) – Emission into an Aquifer**

There will be no emissions to groundwater from the facility due to the installation of hardstanding. Also, any area used for the storage of liquids or hazardous waste will be fully bunded.

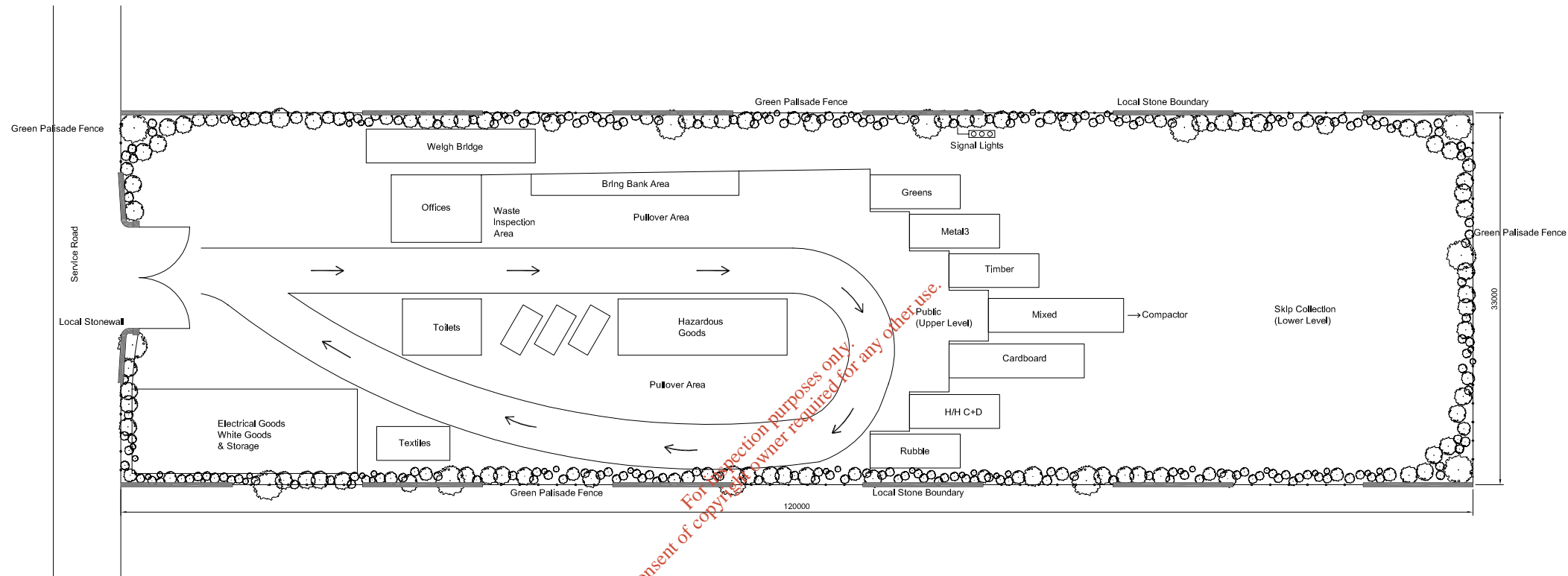
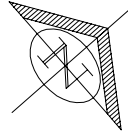


# GARRYANTANVALLY

For inspection purposes only.  
Consent of copyright owner required for any other use.

**Legend:-**  
SW1 & SW2 ● = Emission Point Reference Numbers

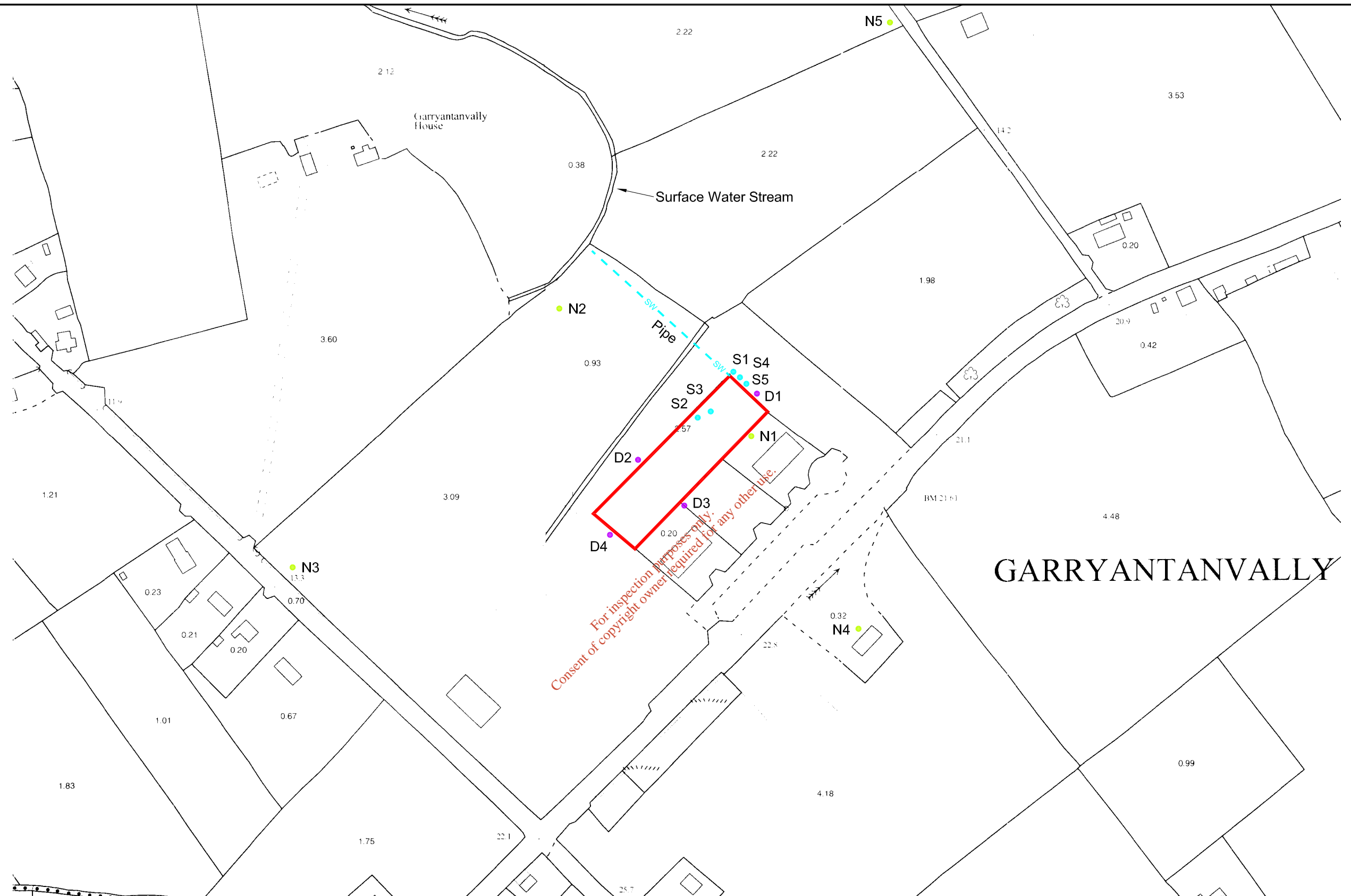
Project	Listowel Civic Amenity			A	26.04.06	Issued For EPA	ToC	HG	POL
Title	Emissions To Surface Water			Rev	Date	Description	by	ch'd	app
Client	Kerry County Council			<b>Malachy Walsh &amp; Partners</b> Consulting Engineers Park House, 21 Denny Street Tralee tel. +353 (0)66 7123404 fax. +353 (0)66 7126586 tralee@mwp.ie					
				Scales (A3) 1:2500		Drg. No.		Rev.	
				Drawn	ToC	24.04.2006	10599-0013		A
				Checked	HG	24.04.2006			



Project	B	20.04.06	Issued for Approval	JL	HG	JOL
	A	18.11.05	Issued for Approval	JL	HG	JOL
	Rev	Date	Description	by	ch'd	app
Title	<b>Malachy Walsh &amp; Partners</b> <b>Consulting Engineers</b> Park House, 21 Denny Street Tralee tel. +353 (0)66 7123404 fax. +353 (0)66 7126586 tralee@mwp.ie					
Client	Scales (A3)		1:500	Drg. No.		Rev.
	Drawn	JL	15.09.2005	10599-0001		B
	Checked	HG	15.09.2005			







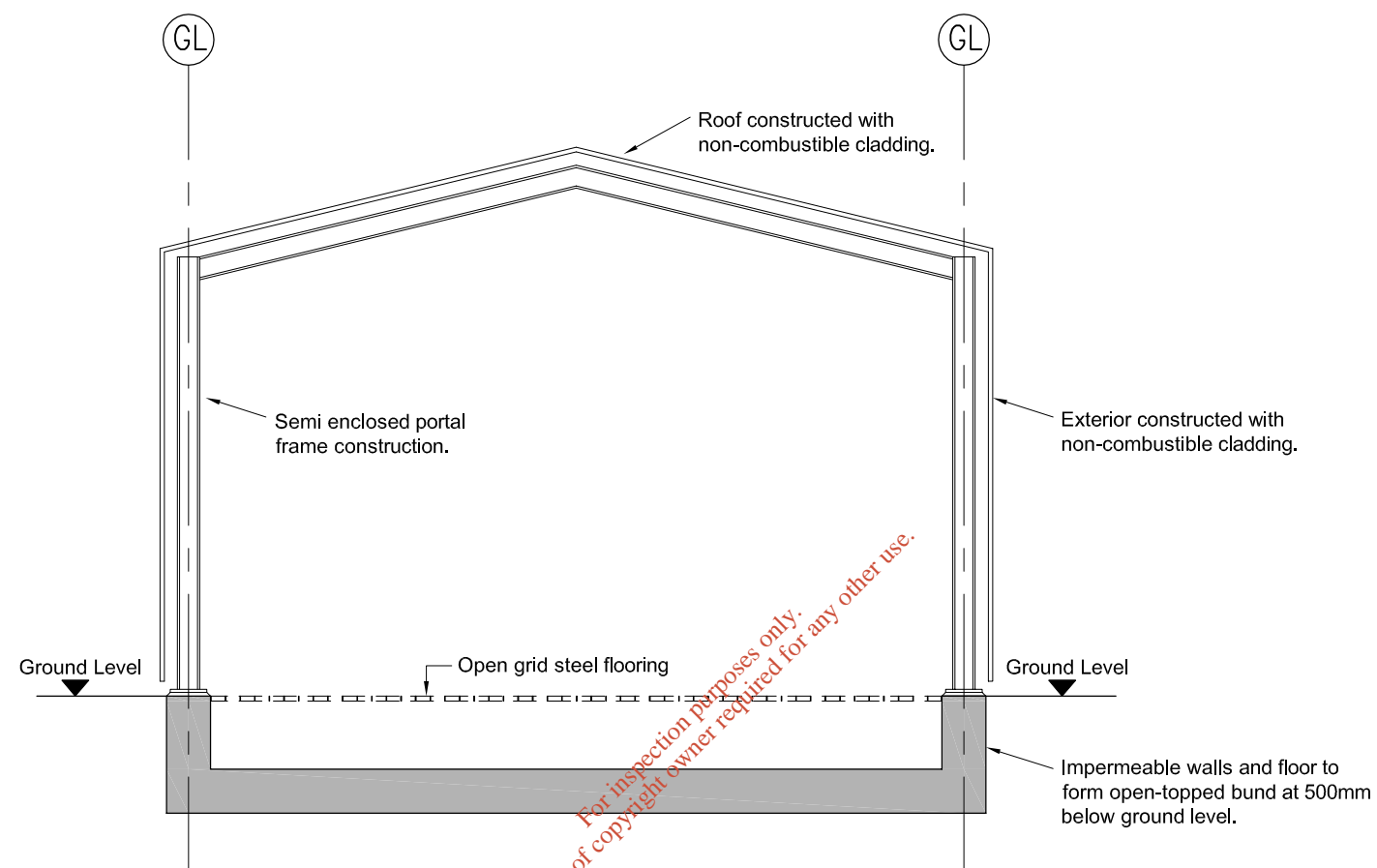
# GARRYANTANVALLY

For inspection purposes only.  
Consent of copyright owner required for any other use.

**Legend:-**


- S1 - S5 ● = Surface Water Monitoring
- D1 - D4 ● = Dust Monitoring
- N1 - N5 ● = Noise Monitoring

Project	Listowel Civic Amenity			A	26.04.06	Issued For EPA	ToC	HG	POL
Title	Monitoring Locations			Rev	Date	Description	by	ch'd	app
Client	Kerry County Council			<b>Malachy Walsh &amp; Partners</b> Consulting Engineers Park House, 21 Denny Street Tralee tel. +353 (0)66 7123404 fax. +353 (0)66 7126586 tralee@mwp.ie					
				Scales (A3) 1:2500		Drg. No.		Rev.	
				Drawn	ToC	24.04.2006	10599-0014		A
				Checked	HG	24.04.2006			



Typical Section N.T.S

For inspection purposes only. Consent of copyright owner required for any other use.

Project	Listowel Civic Amenity					
	Rev	Date	Description	by	ch'd	app
Title	Storage Area For Household Hazardous Waste			<b>Malachy Walsh &amp; Partners</b> Consulting Engineers Park House, 21 Denny Street Tralee tel. +353 (0)66 7123404 fax. +353 (0)66 7126586 tralee@mwp.ie		
Client	Kerry County Council			 <small>IS. EN ISO 9001</small>		
Scales (A3) N.T.S.				Drg. No.	Rev.	
Drawn	ToC	25.04.2006		10599-4001	A	
Checked	HG	25.04.2006				