

ENVIRONMENTAL SERVICES

12



Vision

It is the vision of this Plan to protect and enhance the natural and built environment through the provision of a range of high quality and efficient water, drainage and waste management facilities. During the Plan period the delivery of these services will provide for the needs of our residents and will enable the long term sustainable development of the County.

Context

The framework for the delivery of the policies and objectives, listed below, is set in the context of national and regional plans, policies and strategies. At national level these include:

- *Sustainable Development – A Strategy for Ireland*, DOE, 1997 and
- *Waste Management – Changing our Ways*, DOELG, 1998.

The regional context is provided by the:

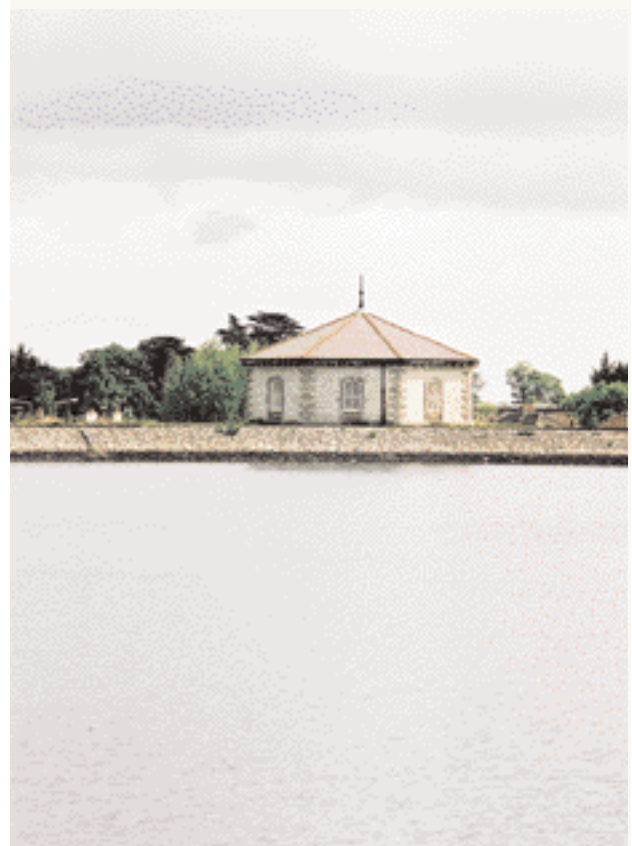
- *Strategic Planning Guidelines for the Greater Dublin Area, 1999, and the annual review and update for 2000, 2001 & 2002.*
- *Greater Dublin Water Supply Strategic Study, 1996-2016.*
- *Dublin Drainage - A Strategic Study for Greater Dublin.*
- *Waste Management Plan for the Dublin Region 1999-2003*, Dublin Local Authorities 1998 and
- *Air Quality Management Plan for the Dublin Region, 1999.*

Strategy

This chapter sets out the policies, development control objectives and specific objectives for project development works of the Council, in relation to environmental services. The provision of high quality and efficient water supply, drainage and waste management facilities, during the period of the Plan, will ensure the long term environmental, social and economic development of the County. The delivery of these services is required to meet the anticipated needs of

the residents of the County up to 2010 and beyond.

The ongoing and proposed programmes of water supply and drainage infrastructure works will ensure the availability of serviced residential and commercial lands, to cater for an adequate supply of housing and facilitate employment opportunities. In this regard the following schemes are urgently required to facilitate residential development, the Sandyford High Level Water Scheme, the Glenamuck-Kiltiernan Sewerage Scheme and the Shanganagh Sea Outfall Works. This will allow the County to cater in a coherent way for its residents and to fulfill its role at regional level by aiding the consolidation of development in the metropolitan area. The Council's Waste Management Strategy is firmly grounded in E.U and National policy and can be summarised by the waste hierarchy of prevention, recycling, energy recovery and disposal. This strategy embraces the "polluter pays" principle.





12.1 Policy

12.1.1 Policy ES1: Water Supply and Drainage

It is Council policy to provide adequate high quality drinking water and to continue the development and improvement of the water supply and drainage systems throughout the County to meet the anticipated water and drainage requirements of the area.

In accordance with the Greater Dublin Water Supply Strategic Study and the Greater Dublin Strategic Drainage Study and subject to the availability of finance, it is the Council's intention to:-

- Implement the water supply and drainage objectives set out in Section 12.3 of this Written Statement.
- Further reduce leakage and wastage from the water supply system wherever possible, in the interest of achieving efficiency and sustainability.
- Carry out such works as are necessary to upgrade the older sections of the water supply system, with a view to providing adequate standards of water quality, pressure, storage, fire flows and safety.
- Review our water quality standards in the light of European Communities (Drinking Water) Regulations 2000 (S.I. NO. 439 of 2000), as may be amended, to ensure continuing compliance.
- Make provision for the construction of water supply and drainage facilities to permit development to proceed as required in designated development areas.
- Eliminate the discharges of untreated municipal sewage to coastal waters and thereby secure further improvements in seawater quality along the shoreline of the County and beyond.
- Make provision for flood discharge, including Sustainable Urban Drainage Systems (S.U.D.S.) in streams and rivers in the developed areas to protect persons and property, to prevent development on lands liable to flooding, or which will put an excessive strain on existing rivers and streams and increase the risk of flooding down stream, to preserve and improve the

quality of surface water and to assist in this by the promotion of linear parks along the lines of streams and rivers and to encourage the usage of storm water attenuation areas for natural wetland habitats and for recreational purposes. Culverting will be discouraged unless absolutely necessary.

- Having regard to S.U.D.S., it is Council policy that all new relevant developments be required to incorporate Best Management Practices for the disposal of storm water drainage. Specifically, developments should, (i) generally comply with all relevant criteria set out in the U.K. CIRIA (Construction Industry Research & Information Association) document– *Sustainable Urban Drainage Systems – Design Manual for Scotland and Northern Ireland*, (ii) limit run-off to a rate not exceeding four litres per second per hectare and (iii) provide appropriate residual storage to accommodate the run-off from a 1 in 50 year return rainfall event arising as a result of the limited discharge rate.
- Encourage the incorporation of facilities into new houses to provide for water conservation.
- Encourage the decommissioning of septic tanks for individual dwellings in areas which are served by mains drainage.
- Implement the Department of Environment and Local Government's *Water Pricing Framework*.

12.1.2 Policy ES2: Waste Management Strategy

It is Council policy to conform to the European Union and National waste management hierarchy as follows:-

***waste prevention,
waste recycling,
energy recovery and
disposal***

subject to economic and technical feasibility and Environmental Assessment.



The Council will carry out solid waste management in its area in a cost-effective manner based upon:-

- environmental protection,
- national and E.U. policy and legislative requirements, and
- future development of the County.

The Council will co-operate with other relevant agencies, both public and private, and local community interests as appropriate, in following the hierarchy of waste management set out above.

The Council will seek the co-operation of other local authorities in the planning, development and operation of disposal facilities for solid wastes of all categories.

12.1.3 Policy ES3: Waste Plans

It is Council policy to publish plans for the collection, treatment, handling and disposal of wastes in accordance with the provisions of the Waste Management Acts 1996-2001.

12.1.4 Policy ES4: Private Waste Disposal

It is Council policy to ensure that all waste, which is disposed of by private waste companies, is done so in compliance with the requirements of the Environmental Protection Agency and the Waste Management Legislation and in accordance with the Planning Code.

This will entail the supervision of private waste collection companies by the Council through the provision of waste permits. This involves the relevant companies providing essential information to the local authority in terms of types and quantity of wastes removed and the origin and destination of waste loads. The waste permit will define the obligation to deliver waste to designated locations and will set down requirements in relation to the methods employed in the collection of waste.

12.1.5 Policy ES5: Waste Prevention and Reduction

It is Council policy to promote the prevention and reduction of waste and to co-operate with industry and other agencies in viable schemes to achieve this.

In line with the principles of sustainable development, it is the intention of the Council to continue to promote a waste minimisation programme to target all aspects of waste within the County. The programme will focus on both commercial and domestic waste producers. It will be directed at every stage of the predisposal activity, from extraction through to production and consumption to final disposal. Its objective will be to diminish the mass of waste at each stage. The Council will continue to implement the Landfill Levy introduced in 2002. This levy is charged for waste disposal at the Ballyogan Landfill site.

12.1.6 Policy ES6: Waste Re-use and Re-cycling

It is Council policy to promote the increased re-use and re-cycling of materials from all waste streams. It will co-operate with other agencies in viable schemes for the extraction of useful materials from refuse for re-use or re-cycling and will adopt the National targets as stated in the Dublin Regional Waste Management Plan, 1999-2003 (as may be amended) for achievement within this area. Account will be taken of E.U. policies and objectives.

By agreement with other local authorities and agencies and subject to the availability of finance, it is the intention of the Council to:

- Implement the waste re-cycling objectives set out in Section 12.3.3 of the Written Statement.
- Source separate waste into organic and non-organic streams. The objective will be to maximise the potential for each waste fraction to be reused and recycled or composted.
- Carry out a public information and education campaign on waste re-cycling techniques and actions.
- Develop a countywide network of multi-material 'Bring



Centres' in suitable locations to achieve national targets and to continue to expand the countywide collection system for domestic recyclable waste. The purpose of a 'Bring Centre' is to accommodate the collection of post-consumer recyclables from the local neighbourhood and provide onward transfer to a materials recovery or recycling facility.

- Co-operate with other interests in seeking to maximise the recovery and recycling of packaging and priority wastes, as well as the reduction in landfilling of organic wastes.

12.1.7 Policy ES7: Refuse Disposal

It is Council policy to dispose of refuse by means of sanitary landfill or other suitable methods as deemed appropriate.

The Council intends that the safe disposal of refuse which cannot be reused or re-cycled shall be carried out in the manner as stated above. This approach reflects current European Union and County Council policy, as set out in the *Waste Management Plan for the Dublin Region, 1999-2003* and any subsequent Waste Plans. However, in the short term it is recognised that sanitary landfill will remain as the primary method of disposal. In this regard it is the intention of the Council, in co-operation with other local authorities, to acquire adequate sites for landfill and to develop and operate these with minimum detriment to the environment.

In collaboration with our neighbouring Authorities in the Dublin Region, it is intended to use the facilities of the waste to energy plant being expedited by Dublin City Council before final disposal to landfill.

12.1.8 Policy ES8: Hazardous Waste

It is Council policy, in co-operation with other agencies, to plan, organise, authorise and supervise the disposal of hazardous waste.

It is the intention of the Council to have regard to the recommendations made by the Environmental Protection

Agency, as appropriate, in relation to the effective management by the Council of hazardous waste, including the recommendations of the *National Hazardous Waste Management Plan*.

12.1.9 Policy ES9: Air Pollution

It is Council policy to implement the provision of air pollution abatement in accordance with National and EU Directives and legislative requirements in conjunction with other agencies as appropriate.

In this regard the Council adopted *The Air Quality Management Plan for the Dublin Region* on 13th December 1999 under the provisions of the Air Pollution Act, 1987.

The Council has established a network of monitoring stations to monitor the extent of air pollution caused by smoke and Sulphur dioxide (SO²), Nitrogen dioxide (NO²), PM10 Particulate Matter, Carbon dioxide (CO²), Lead and Benzene. This network will be extended as required.





12.1.10 Policy ES10: Water Pollution

It is Council policy to implement the provision of water pollution abatement in accordance with National and EU Directives and legislative requirements in conjunction with other agencies as appropriate.

In the implementation of this policy the Council will endeavour to:

- maintain the quality of sea water adjoining the County to the necessary standards, with particular reference to areas of the coastline where bathing takes place. Special emphasis will be devoted to beaches designated under the Quality of Bathing Water Regulations.
- improve the water quality in rivers and other water courses in the County, including ground waters.
- minimise the impact on ground water of discharges from septic tanks and other potentially polluting sources.

12.1.11 Policy ES11: River and Stream Management

It is Council policy to prepare a strategy for the management of rivers and streams throughout the County.

The purpose of the strategy is to draw up an integrated programme for the management of rivers and streams, dealing with issues such as nature conservation, flood control, pollution control, general recreation and angling. It will facilitate monitoring of changes in water quality and aquatic habitats, and assist in the preparation of landscape improvement schemes for existing rivers and streams. The strategy will be prepared in consultation with local community and environmental groups, angling organisations and fisheries authorities and in consultation with other Local Authorities where relevant.

12.1.12 Policy ES12: Re-Use of Landfill Sites

It is Council policy that landfill sites, when full, be landscaped and used for amenity purposes, or where such use is inappropriate, be returned to agriculture or other beneficial use. The landfill will be monitored in accordance

with the Waste Management Act, 1996 and Environmental Protection Agency requirements.

The landfill site at Ballyogan, which is proposed to be closed, will be subject of a restoration plan which will be prepared and implemented by the Council.

12.1.13 Policy ES13: Major Accidents

It is Council policy to have regard to the provisions of the "Major Accidents Directive" (European Council Directive 96/82/EC). This Directive relates to the control of major accident hazards involving dangerous substances and its objectives are to prevent major accidents and limit the consequences of such accidents.

This policy will be implemented through the development control process through controls on the siting of new establishments, on modifications to existing establishments and on development in the vicinity of an establishment which, by virtue of its type or siting, is likely to increase the risk or consequences of a major accident.

12.1.14 Policy ES14: Litter Control

It is Council policy to ensure that, as far as resources permit, public places and places visible to any extent from public places within the County are maintained free of litter. It is Council policy to publish plans for the prevention and control of litter and for measures to encourage public awareness with the view to eliminating litter pollution in accordance with the provisions of the Litter Pollution Act, 1997 or other relevant legislation as may be enacted from time to time.

The Council recognises that litter is a major environmental problem, which significantly detracts from the visual quality of urban and rural areas and the coastline. In addition, litter has public health implications and detracts from the image of the County as a tourist friendly area. The Council has adopted a statutory Litter Management Plan, 2001-2004 setting out appropriate objectives and targets for eliminating the litter problem within the County. The Council runs



various public campaigns, such as the 'Anti-Litter/Environmental Awareness Campaign' and the 'Tidy Districts Award Scheme' to promote a greater public awareness of the litter problem, and will continue to operate such campaigns as finances allow.



12.2 Development Control Objectives

12.2.1 Air Pollution

The Council will have regard to the *Local Government (Planning and Development) General Policy Directive, 1988* (or as may be amended from time to time) issued by the Minister for the Environment and Local Government relating to air quality standards nationally, and to the Air Quality Management Plan for the Dublin Region in considering applications for planning permissions and such other relevant legislation as may be enacted.

12.2.2 New Developments

The Council will have regard to *Guidelines for Sustainable Development* (Criteria for site appraisal, site planning and building design) DLRC, 1999 to:

- make provision for composting and recycling for each site.
- Incorporate where appropriate local 'Bring Centres' into development layouts for recyclable materials.

Facilities for wheeled bin collection and litter collection points will be required in new developments.

12.2.3 Noise Emissions or Vibrations

The Council will have regard to the proposed EU Directive on Environmental Noise when issued.

12.2.4 Landfill Sites and Refuse Transfer Stations

In considering planning applications for privately operated landfill sites the Council will have regard to the provisions of the appropriate European Council Directives together with appropriate national legislation and regulations in respect of disposal of waste and disposal of toxic and dangerous waste. Where permission is granted, stringent conditions will be imposed in the interest of health, safety and preservation of amenities.

A refuse transfer station will only be permitted where it does

not materially detract from the relevant land use zoning objective and is at a scale appropriate to its surrounding environment.

12.3 Specific Objectives

12.3.1 Water Supply Objectives

It is a Council objective to undertake the following projects as and when necessary and subject to the availability of appropriate approval and finance:-

Dun Laoghaire Supply Area

- Further projects to continue the rehabilitation of the old Dun Laoghaire Water Supply system will be carried out within the period of the Development Plan. These will include proposals to further reduce leakage from the existing distribution system, the further rehabilitation or renewal of any structurally deficient mains and the continuing introduction of telemetry to provide essential information for the optimum management of the system. These works will be ongoing during the period of the Plan.

Sandyford High Level Scheme

- Sandyford High Level Scheme - pumping plant, rising main, service reservoirs and distribution mains to improve security of existing water supply and to facilitate development in Sandyford, Ballyogan, Stepside and adjoining areas. This scheme is scheduled to commence in 2004 and has a completion horizon of two years.

District Metering

- Continuing provision of metering programmes, including District Metering Schemes for the identification of unaccounted for water, including leakage and incorporation of same into the telemetry system.



Metering of Non-Domestic Consumers

- To complete the installation of water meters to all non-domestic consumers. This will ensure compliance with the Department of the Environment and Local Government's 'Water Pricing Framework' policy.'

Extra Municipal Area

- Major upgrading of the Extra Municipal Area water supply system including watermain rehabilitation.

Plumbosolvency (Lead Reduction)

- Ensure compliance with revised E. U. Quality of Drinking Water Regulations.

Aquifer Protection

- Identification of Aquifer Protection Zone at Glencullen.



12.3.2 Drainage Objectives

It is a Council objective to undertake the following projects as and when necessary and subject to the availability of appropriate approval and finance:-

Dun Laoghaire Drainage Scheme

- Complete the extension of the main drainage system from the West Pier to Coliemore Harbour, to eliminate the discharge of untreated municipal sewage at these locations. This will involve extending the existing drainage system from Bullock Harbour to Coliemore Harbour, intercepting flows to, and pumping flows from the existing sea outfalls and pumping these flows from the West Pier to Ringsend Treatment Works via the Bullock Station. This scheme is scheduled to commence in 2004 and is proposed to be completed in two years.
- Continuing rehabilitation of any structurally deficient sewers within the Dun Laoghaire Drainage Catchment during the period of the Plan.
- Implementing measures to utilize unused capacity within the existing sewerage system. This will involve, where possible, the separation of storm and foul flows and the attenuation of flows. This will be undertaken in order to reduce the risk of flooding and to reduce the volume of storm flows pumped to Ringsend for treatment.
- Implementing measures to reduce, treat and control storm overflow discharges to watercourses and the sea.

Carrickmines/Shanganagh Main Drainage Scheme

- The continuing extension of the Carrickmines /Shanganagh Main Drainage Scheme along Ballyogan Valley.

Glenamuck - Kiltiernan Sewerage Scheme

- Construction of a drainage system to connect to the Carrickmines network to remedy existing problem areas, to remove dwellings from septic tank drainage and to service zoned lands. This scheme is due to commence in 2004 and has a completion horizon of two years.

Cherrywood–Loughlinstown Sewerage Scheme

- Construction of a drainage system to service the “A1” zoned lands at Rathmichael to connect to the Carrickmines network. This scheme is due to commence and be completed in 2004.

Carysfort/Maretimo Stream Improvements

- Improvement scheme to reduce the risk of flooding. The design of this scheme is due to be completed in 2004 with construction thereafter.

Deansgrange Stream Improvements

- Improvement scheme to reduce the risk of flooding.

Shanganagh River Improvements

- Improvement scheme to reduce the risk of flooding.

Shanganagh Sea Outfall Works

- Construction of an upgraded sewage treatment plant to eliminate the discharge of untreated municipal sewage from the Shanganagh and Bray sea outfalls to meet the E.U. Urban Wastewater Directive, 1991. This project will include a sewage transfer pipeline from Bray Pumping Station to Shanganagh and will be carried out in conjunction with Bray Town Council/Wicklow County Council. This scheme is at preliminary design stage and is due to open in 2006.
- Develop and implement a ‘Sludge Management Plan’ for the County. It is proposed that a sludge collection hub centre will be provided at the Shanganagh Sea Outfall Works. A Draft Sludge Management Plan is under preparation and will be implemented during the Plan period.

Shanganagh Catchment Sewerage System

- Implement a programme of rehabilitation of structurally deficient sewers.
- Implement measures to utilize unused capacity within the existing sewerage system. This will involve, where possible, the separation of storm and foul flows and the attenuation of flows. This will be undertaken in order to reduce the risk of flooding and to reduce the volume of storm flows transferred to the Shanganagh Works for treatment.
- Implementing measures to reduce, treat and control storm overflow discharges to watercourses and the sea.

12.3.3 Waste Management Objectives

It is a Council objective to undertake the following projects as and when necessary and subject to the availability of appropriate approval and finance:-

Integrated Waste Management Facilities at Ballyogan

The Council is developing an integrated waste management centre at Ballyogan Recycling Park. This Park will be developed in two stages. Stage 1 involves the construction of a Waste Transfer Facility, a Civic Recycling Facility and associated infrastructure and is programmed for completion in late 2004. Stage 2 involves the provision of an Organic Waste Composting Facility, a Green Waste Composting Facility and a Materials Recovery/Recycling Facility and is programmed for completion in late 2005/early 2006.

Stage 1

- The operation of a baled Waste Refuse Transfer Facility.
- The operation of a Recycling Facility for the receipt, segregation and processing of recyclable material and for the reception and safe disposal of non-recyclable and bulky household wastes and also for categories of hazardous waste, e.g. fridges/old batteries/waste electrical and electronic equipment/waste oils.
- A dedicated access road be provided from the baling



station to the M50 so long as the provision of this does not contravene the waste licence provided to the Council by the E.P.A.

Stage 2

- The provision and operation of a Green Waste Composting Facility for the reception and processing of gardening and landscaping waste.
- The provision and operation of an Organic Waste Composting Facility for the processing of food and similar waste.
- The provision and operation of a Materials Recovery/Recycling Facility for the receipt and segregation of recyclable materials and for the processing of recyclable materials.

Sludge Management Plan

- Develop and implement a 'Sludge Management Plan' for the County. It is proposed that a sludge collection hub centre will be provided at the Shanganagh Sea Outfall Works. A Draft Sludge Management Plan is under preparation and will be implemented during the Plan period.



