# CHAPTER 1

# BACKGROUND AND OBJECTIVES

## 1.1 Introduction

Section 65 of the Environmental Protection Agency Act, 1992 requires the Agency to prepare programmes for monitoring the quality of the environment. One of those programmes is a groundwater quality monitoring programme. In the following chapters, the available information on which to base a groundwater monitoring programme is reviewed and a national groundwater quality monitoring programme is proposed.

There are certain developments, such as agriculture, mining, solid waste disposal, industries, sewerage schemes, septic tanks, chemical and fuel storage depots, which generate contaminants that pose a threat to groundwater. Contamination manifests itself in chemical and/or bacterial form. Monitoring is essential to the identification of threats to groundwater and must be part of groundwater protection programmes. In addition, groundwater monitoring must be carried out to implement EU Directives.

Monitoring means the measurement of:

- the quality of the groundwater environment;
- inputs and developments which could affect the quality of groundwater;
- the effects of inputs and pressures on the groundwater environment.

## 1.2 Objectives of the Groundwater Quality Monitoring Programme

The main objectives of the groundwater quality monitoring programme are:

- to establish that groundwater quality reflects the geological characteristics of the aquifers, and check whether it is impaired by anthropogenic influences;
- to define the state of groundwater quality and to detect changes and trends of quality on a national basis;
- to comply with National and EU Legislation, especially the Nitrates Directive;
- to identify any groundwater affected by pollution;
- to repeat monitoring for nitrates every four years in aquifers where nitrate concentrations greater than 25 mg/l $NO_3$ have been found;
- to identify vulnerable zones
- to identify user requirements and activities that affect the quantity and quality of groundwater.

## 1.3 Categories of Monitoring Network

The Groundwater Quality Monitoring Programme can be broken into three categories:

(1) representative or basic monitoring;
(2) user-related monitoring;
(3) pollutant-related monitoring.

### 1.3.1 Representative Monitoring Network

This network is to be operated on a National basis in order to define the state of the groundwater quality, to detect changes in groundwater quality and to assess causes of any changes that might be identified. Monitoring points within this basic network are selected taking into account hydrogeological conditions and groundwater use.

### 1.3.2 User-Related Monitoring Network

This network mainly consists of monitoring of drinking water as required under the European Communities (Quality of Water intended for Human Consumption) Regulations, 1988. Under these Regulations, water used for human consumption as well as water used in the food industry, regardless of origin, must be monitored. Monitoring of the water quality is required at the point where it is made available to the consumer.

### 1.3.3 Pollutant-Related Monitoring Network

This network is intended to detect possible pollutant emissions from landfill sites, septic tank clusters, factories, chemical and fuel storage depots and includes the identification and mapping of potential sources of pollution.

## 1.4 Parameters for analysis

The extent of a monitoring programme is governed by the number and types of aquifers, the locations of potential sources of pollution within aquifers and water abstractions from the aquifer.

The parameters monitored and the frequency of monitoring will be different for each of the three categories. The representative monitoring will include the major anions and cations as well as physico-chemical parameters. The sampling for microbiological parameters and other parameters will depend on local circumstances.

## 1.5 Procedures for Establishing a Monitoring Programme

Procedures were developed for establishing a representative monitoring network as part of a research programme, supported by the STRIDE ( Science and Technology for Regional Innovation and Development in Europe) Operational Programme for Ireland (1991 - 1993), carried out at the Regional Water Laboratory, Kilkenny. The procedures included:

(1) review of available hydrogeological information;

(2) identification of suitable monitoring points;

(3) characterisation of each monitoring point hydrogeologically;

(4) establishment of a monitoring system.

These procedures are examined in detail in the following chapters. The available data relevant to the development of a national groundwater quality monitoring programme is assessed and described under each of these four headings in the following chapters.

# CHAPTER 2

# REVIEW OF AVAILABLE HYDROGEOLOGICAL INFORMATION

## 2.1 Identification of Aquifers

The Geological Survey of Ireland (GSI) is the main source of information on the aquifers of Ireland. Two studies were carried out for the EEC ( i ) "*Groundwater Resources of the Republic of Ireland*", published in 1982 by the EEC and ( ii ) "*Groundwater Vulnerability and Quality in the Republic of Ireland*", completed in 1983. The first entailed the mapping of the aquifers and the quantitative assessment of groundwater resources, and the second the assessment and mapping of the vulnerability and quality of those groundwater resources.

For their assessment of surface water resources in Ireland in the 1970s, An Foras Forbartha (AFF) used seven water resource regions. These are shown on Figure 1. Each water resource region comprises of a number of hydrometric areas. Each hydrometric area, with the exception of the River Shannon catchment, consists of one or more river catchments or coastal areas which have no significant river drainage systems. Because of its size the catchment of the main channel of the River Shannon comprises of two hydrometric areas. Hydrometric areas are shown on Figure 2 which also lists the river catchments and coastal drainage areas for each hydrometric area number.

For groundwater the GSI, for each surface water resource region, identified the aquifers by aquifer unit numbers in parts of river catchments and coastal drainage areas. For each surface water resource region Table 1 lists the aquifers and their areas in each aquifer unit and identifies the hydrometric area the aquifer unit is in. This allows the identification of aquifers in surface water catchments.

## 2.2 Mapping of Information

The aquifer maps published by the European Commission, as described above, were enlarged to a scale of 1:250000 and digitised on a county basis, by the former Environmental Research Unit of the Department of the Environment. The following information is mapped for each county:

(i) aquifer units boundaries;

(ii) aquifer type and area extent in each aquifer unit;

(iii) sources of supply from groundwater for public water supply and for some private abstractions and group water supply schemes;

(iv) representative sampling points and

(v) groundwater sources of supply sampled under the Drinking Water Regulations.

Maps can be updated as additional information becomes available.

Each abstraction point (borehole, well, spring or infiltration gallery) is given a plot number by which it can be identified on the county map. A list of known groundwater abstraction points, giving their name and county plot numbers, has been prepared for each county.

## 2.3 Groundwater Quality Data

Groundwater quality data, plotted on aquifer maps, would be helpful in the design of a national monitoring network. However much of the data collected to date has not been mapped. Details of studies carried out are outlined below:

(i) A national study of groundwater vulnerability and quality was undertaken by GSI for the

Commission of the European Communities in the early 1980s, at a time when concern was being expressed about the possibility of groundwater pollution by nitrate. The report stated that there was virtually no systematic monitoring of groundwater quality being carried out in the country. Since that time, groundwater quality monitoring is carried out by local authorities in relation to their obligations under National and EU legislation, and information on groundwater quality is also collected by GSI, EPA and Universities/ Third Level Colleges, as part of special studies they undertake.

(ii) A detailed assessment of the groundwater resources in counties Cavan, Lough and Monaghan was made in 1981, in a joint GSI/AFF report entitled Groundwater Resources in the North East Regional Development Organisation Region (NERDO).

(iii) A survey was carried out in 1985/86 of water quality and temperature of a number of large springs in Ireland. The analyses reflect the water quality of the springs mainly in the unconfined parts of limestone and sand and gravel aquifers.

(iv) Monitoring results of water quality for the Drinking Water Regulations give details in relation to nitrate concentrations and these results can be used for the purposes of nitrate pollution assessments.

(v) A STRIDE funded project was carried out by the Kilkenny Regional Water Laboratory which led to the establishment of a representative monitoring network in counties Carlow, Kilkenny, Tipperary North Riding, Tipperary South Riding, Waterford and Wexford. Groundwater quality data were collected for this project.

(vi) A STRIDE funded project was carried out by the Monaghan Regional Water Laboratory. The overall objective was to assess whether there had been any alteration in the quality of groundwater since the 1981 studies in Cavan, Louth and Monaghan.

(vii) A STRIDE funded project was undertaken by Sligo Regional Technical College on Groundwater Vulnerability Assessments and the Development of Aquifer Protection Plans for Counties Galway, Mayo, and Roscommon. Groundwater quality monitoring was confined to a small number of locations and parameters.

(viii) The GSI has carried out detailed studies in various locations such as the Nore Basin, East Cork and East Galway. It is also involved in developing aquifer protection schemes in a number of counties.

## CHAPTER 3

## ESTABLISHMENT OF A MONITORING SYSTEM, RESOURCES AND COST

### 3.1 Identification of Suitable Monitoring Points

As mentioned in the introduction, groundwater quality monitoring comprises three categories of monitoring networks: representative, user-related and pollutant-related.

The starting point for selecting a representative monitoring network is the county map showing the information described above (aquifers, aquifer unit boundaries, abstraction points and existing monitoring points). Each County Council was contacted for assistance in selecting suitable monitoring points. Advice and assistance was received from the GSI and from Dr. Richard Thorn, (co-ordinator of the STRIDE funded project for the western counties) at Sligo RTC, in relation to specific counties. The points selected comprise existing public water supply abstraction points where possible, but private wells are also included. These points were chosen for a number of reasons; (1) the use of public abstraction points is cost effective, (2) pumping creates movement of groundwater in the zone of influence of the borehole and monitoring results would be representative of this area, (3) there is a possibility of some historical data being available. Some 288 representative points were selected for the whole country (see Map 1). Details of these monitoring points are given in Table 2.

In relation to user-related monitoring the criteria for selecting supplies to be monitored are set out in the Drinking Water Regulations. A list of the known abstraction points (wells, springs, boreholes) was compiled for each county. The sources of supply from groundwater which were included in the Drinking Water Regulations monitoring, and which contained analyses for Nitrates, have been mapped. These locations are given in Appendix 1 and are shown on Map 2.

### 3.2 Hydrogeological characterisation of each Monitoring Location

Fissure permeability predominates in aquifers in Ireland. The only widespread aquifers with intergranular permeability are Quaternary sands and gravels. Irish aquifers are generally unconfined and are often small in lateral extent with faulting common.

In order to make maximum use of the results of the monitoring programme, it is important that certain information be available for each monitoring point. This includes:

(i) bedrock geology (from maps and drilling logs).

(ii) overburden (from drilling)

(iii) hydrogeology (from pump tests, water level records and drilling records).

(iv) borehole construction (from drillers or owners).

In addition, information on land use, surface hydrology and vulnerability of the source of supply to pollution is necessary. Compilation of data on the characteristics of each monitoring point has been carried out, as far as possible, in the South Eastern Region and this work will be ongoing for the rest of the country.

An assessment of the vulnerability of the aquifers based on time of travel of pollutants has been made by the GSI as outlined above. Nitrate loading from livestock and tillage has been mapped on a county basis by Teagasc and groundwater nitrate pollution risk based

on soil survey associations has also been mapped.

In addition to information gathering in relation to groundwater quality a programme of groundwater level monitoring is being developed by EPA.

### 3.3. Establishing a Monitoring Programme

The three types of monitoring networks will be monitored by different organisations.

**Representative monitoring** will be carried out by EPA with assistance from the County Councils. Co-operation from local authority staff is necessary in arranging for the sampling of raw water (before chlorination or other treatment) at each sampling point. Sampling will be carried out by EPA technicians and analyses will be carried out by EPA laboratories. Standard operating procedures for sampling of groundwaters have been drawn up and issued to all technicians involved in collection of samples. Frequency of sampling is twice yearly. The locations of the representative monitoring points are listed for each county and shown on county aquifer maps and also on Map 1 of this report.

**User-related groundwater quality monitoring** consists mainly of monitoring carried out under the European Communities (Quality of water intended for Human Consumption) Regulations, 1988. Sanitary authorities are required to regularly monitor at the point where water is made available to the user. In the case of water supplies serving less than 1000 persons or producing or distributing less than 200 cubic metres of water per day monitoring frequency and extent is decided by the sanitary authority. The responsibility of sanitary authorities under the Drinking Water Regulations extends to public and private supplies. The data collected from this monitoring can be related to the source of supply, and where the source is groundwater, these data will add to other available information, particularly in relation to nitrates in groundwater.

**Pollutant-related groundwater monitoring** will consist mainly of compliance monitoring of licensed activities under the Environmental Protection Agency Act, 1992, and the Waste Management Act, 1996.

The objectives of monitoring carried out under the Waste Management Act licences are to detect adverse environmental impacts from the management of waste; to provide information for the assessment of an application for a licence or surrender of a licence; to demonstrate that the environmental control measures are operating as designed and to demonstrate compliance with the licence conditions.

The EPA publication, Landfill Manuals - Landfill Monitoring, outlines the minimum requirements for analysis of groundwater composition and monitoring frequency. A minimum of one upgradient and two downgradient boreholes are required for a landfill site. However, site specific factors will determine the location and the number of boreholes that are necessary on industrial sites.

In Integrated Pollution Control (IPC) licensing, the need for groundwater monitoring is considered on a case by case basis. Where significant risk is considered to be present, groundwater monitoring is required. For example, where chemicals are being used or stored, or where there is particular aquifer vulnerability, such as proximity of important aquifers, monitoring of groundwater for the specific chemicals and for more general parameters is required in individual licences. Results of this monitoring are returned to the Agency on a regular basis and are available for public inspection.

These and other potential sources of pollution to groundwater, described earlier, will be mapped by EPA as the information becomes available. The monitoring will be carried out by the licensees and by EPA.

### 3.4 Resources and Costs

The representative monitoring network will be sampled by EPA technicians who are located at Dublin, Monaghan, Kilkenny, Castlebar, Mallow, Limerick, Athlone and Letterkenny. Analyses will be carried out at EPA laboratories. The estimated cost of this work is £140,000 per annum. The cost of collecting, collating and publishing available data on groundwater quality from all monitoring programmes will be additional to the above costs.

### 3.5 Publication of Results

As groundwater in Ireland is both an important resource and the source for a large number of public water supply schemes in Ireland, information on its quality is important and is a significant element in the management and protection of this resource. It is also increasingly important to keep the public more fully informed in relation to the current status of groundwater and the trend in relation to groundwater quality.

Towards these ends, the EPA will publish:

- reports on any EPA investigation of pollution incidents affecting groundwater as and when they occur;

- a report on Nitrates in Groundwater, based on the collation of the available information. This is scheduled for publication in 1999;

- A report on groundwater quality, based on the collation of data obtained from the analysis of samples taken as part of the representative monitoring programme will be published when data for a 4 year period are available, i.e. in 2000.

### 3.6 Summary

Figure 1 and Figure 2, together with Table 1 and Map 1, summarise the aquifer locations and the representative monitoring points chosen on a national basis. Table 2 gives details of the representative monitoring network.

Appendix 1 contains a list of the groundwater sources that were sampled to date under the Drinking Water Regulations as part of the user-related network in each county and which were analysed for nitrates. These locations are shown on Map 2.

Establishing the locations of potential sources of pollution to groundwater, mapping them and getting the owners and operators to monitor them will be an ongoing part of this programme. The EPA will also carry out compliance and verification monitoring.

Enter figure 1

enter figure 2

**Table 1**

## List of Aquifer Units, Aquifers within each Aquifer Unit, Area of each Aquifer and Hydrometric Area Number (Figure 2) in which aquifers lie.

**EASTERN WATER RESOURCE REGION**

| Aquifer Unit Number and Hydrological Reference | Aquifer Geology | Aquifer Area $km^2$ | Hydrometric Area Number |
|---|---|---|---|
| E 1 North Louth | Quaternary Sand/Gravel<br>Carboniferous Limestone | 90.5<br>64.1 | 06 |
| E 2 Glyde & Dee | Quaternary Sand/Gravel<br>Permian/Triassic Sandstone<br>Carboniferous Limestone (Edenderry Oolite) | 72<br>23<br>163 | 07 |
| E 3 Boyne-Blackwater | Carboniferous Limestone | 250 | 08 |
| E 4 Upper Boyne | Quaternary Sand/Gravel<br>Carboniferous Limestone | 190<br>115.5 | 08 |
| E 5 Nanny/Devlin | Carboniferous Limestone | 97.5 | 08 |
| E 6 Broadmeadow | Quaternary Sand/Gravel | 7 | 08 |
| E 7 Liffey/Tolka | Quaternary Sand/Gravel<br>Carboniferous Limestone | 3<br>36 | 09 |
| E 8 Upper Liffey | Quaternary Sand/Gravel Curragh<br>Quaternary Sand/Gravel Wicklow | 80<br>24 | 09 |
| E 9 East Wicklow | Quaternary Sand/Gravel<br>Ordovician Volcanics | 67<br>43 | 10 |
| E 10 Avoca | Quaternary Sand/Gravel<br>Ordovician Volcanics | 28.5<br>36 | 10 |

**SOUTH EASTERN WATER RESOURCE REGION**

| | | | |
|---|---|---|---|
| SE 1 East Wexford Coastal | Quaternary Sand/Gravel<br>Ordovician Volcanics | 185<br>90 | 11 |
| SE 2 Slaney | Quaternary Sand/Gravel<br>Ordovician Volcanics | 30<br>187 | 12 |
| SE 3 South Wexford Coastal | Carboniferous Limestone<br>Ordovician Volcanics | 87<br>98 | 13 |
| SE 4 Upper Barrow | Quaternary Sand/Gravel<br>Curragh Sand/Gravel<br>Clonaslee Sand/Gravel<br>Maryborough Esker<br>Carboniferous Limestone (Edenderry Oolite)<br>Crosspatrick Limestone<br>Clonaslee Devonian Sandstone | 6<br>125.4<br>2<br>19.2<br>125.2<br>22.2<br>35.9 | 14 |
| SE 5 Middle Barrow | Stradbally Sand/Gravel<br>Carlow Gravels<br>Kilkenny/Carlow Dolomites<br>Upper Visean Limestone | 4.1<br>60.6<br>34.8<br>387 | 14 |
| SE 6 Lower Barrow | Ordovician Volcanics | 40.4 | 14 |
| SE 7 Upper Nore | Camross Sand/Gravel<br>Ballyfin Sand/Gravel<br>Clonaslee Upper Devonian Sandstone | 16.1<br>13.5<br>15.7 | 15 |

Table 1 (continued)

| Aquifer Unit Number and Hydrological Reference | Aquifer Geology | Aquifer Area $km^2$ | Hydrometric Area Number |
|---|---|---|---|
| SE 8 Middle Nore | Kilkenny Gravels<br>South Laois/North Kilkenny Sand/Gravel<br>Kilmanagh Gravels<br>Dinin Gravels<br>Kings River Gravels<br>Upper Visean Limestone<br>Crosspatrick Limestone | 18.2<br>48.2<br>22.2<br>23<br>8.1<br>227<br>39.6 | 15 |
| SE 9 Lower Nore | Thomastown Sand/Gravel<br>Kiltorcan Upper Devonian Sandstone | 10.1<br>69 | 15 |
| SE 10 Upper Suir | Crosspatrick Limestone<br>Clonaslee Upper Devonian Sandstone | 34.1<br>69.2 | 16 |
| SE 11 Middle Suir | Aherlow Gravels<br>South West Tipperary Sand/Gravel<br>Upper Visean Limestone<br>Aherlow Limestone syncline<br>Crosspatrick Limestone | 43.6<br>87<br>494<br>53.1<br>67 | 16 |
| SE 12 Lower Suir | Lower Suir Limestone<br>Ordovician Volcanics | 570<br>160 | 16 |
| SE 13 Waterford Coastal | Dungarvan Limestone synclyne<br>Ordovician Volcanics | 44.4<br>183 | 17 |

**SOUTHERN WATER RESOURCE REGION**

| | | | |
|---|---|---|---|
| S 2 Dingle | none | 0 | 22/23 |
| S 3 Castleisland | Quaternary Sand/Gravel<br>Carboniferous Limestone | 167.5 | 22 |
| S 4 Killarney | Quaternary Sand/Gravel<br>Carboniferous Limestone | 166.5 | 22 |
| S 5 West Kerry | none | 0 | 21 |
| S 6 Kenmare | Carboniferous Limestone | 16 | 21 |
| S 7 Beara | none | 0 | 21 |
| S 8 West Cork | none | 0 | 20 |
| S 9 Bandon | Quaternary Sand/Gravel | 24 | 20 |
| S 10 Kinsale | Quaternary Sand/Gravel | 3 | 20 |
| S 11 Owenboy | Carboniferous Limestone | 14 | 20 |
| S 12 Upper Lee | Quaternary Sand/Gravel | 6 | 19 |
| S 13 Lower Lee | Quaternary Sand/Gravel<br>Carboniferous Limestone | 52.5 | 19 |
| S 14 South East Cork | Quaternary Sand/Gravel<br>Carboniferous Limestone | 144 | 19 |
| S 15 Upper Blackwater | Quaternary Sand/Gravel<br>Carboniferous Limestone | 24 | 18 |
| S 16 Middle Blackwater | Quaternary Sand/Gravel<br>Carboniferous Limestone | 145 | 18 |

Table 1 (continued)

| Aquifer Unit Number and Hydrological Reference | Aquifer Geology | Aquifer Area $km^2$ | Hydrometric Area Number |
|---|---|---|---|
| S 17 Awbeg | Quaternary Sand/Gravel<br>Carboniferous Limestone<br>Upper Devonian Sandstone | 240 | 18 |
| S 18 Funshion | Quaternary Sand/Gravel<br>Carboniferous Limestone | 217.5 | 18 |
| S 19 Lower Blackwater | Quaternary Sand/Gravel<br>Carboniferous Limestone | 87.5 | 18 |
| S 20 Bride | Quaternary Sand/Gravel<br>Carboniferous Limestone | 77.5 | 18 |
| S 21 Blackwater Estuary | Quaternary Sand/Gravel<br>Carboniferous Limestone | 17 | 18 |

**MID-WESTERN WATER RESOURCE REGION**

| | | | |
|---|---|---|---|
| MW 2 North West Clare | Carboniferous Limestone | 74 | 28 |
| MW 3 Upper Fergus | Carboniferous Limestone<br>Upper Devonian Sandstone | 305<br>15 | 27 |
| MW 4 West Clare | Carboniferous Limestone | 4 | 28 |
| MW 5 Lower Fergus | Carboniferous Limestone<br>Upper Devonian Sandstone | 145<br>10 | 27 |
| MW 6 South West Clare | none | 0 | 27 |
| MW 7 South East Clare | Carboniferous Limestone<br>Upper Devonian Sandstone | 45<br>35 | 27 |
| MW 9 Maigue | Quaternary Sand/Gravel<br>Carboniferous Limestone /Volcanics<br>Upper Devonian Sandstone | 139.5<br>578.5<br>44 | 24 |
| MW 10 Deel | Quaternary Sand/Gravel<br>Carboniferous Limestone<br>Upper Devonian Sandstone | 127<br>281<br>12.5 | 24 |
| MW 11 West Limerick/ North Kerry | none | 0 | 23 |
| MW 12 Galey | none | 0 | 23 |
| MW 13 North East Kerry | Quaternary Sand/Gravel<br>Carboniferous Limestone | 210 | 23 |
| MW 14 Feale | Upper Carboniferous Limestone | 6 | 23 |
| MW 15 Tralee | Quaternary Sand/Gravel<br>Carboniferous Limestone | 72.5 | 23 |

**SHANNON WATER RESOURCE REGION**

| | | | |
|---|---|---|---|
| SH 1 Tipperary East of Shannon | Roscrea Sand/Gravel<br>Bellstone Visean Limestone<br>Borrisokane<br>Upper Devonian Sandstone<br>Toomyvara Upper Devonian Sandstone | 18.1<br>76.2<br>40<br>12.5<br>11 | 25 |

Table 1 (continued)

| Aquifer Unit Number and Hydrological Reference | Aquifer Geology | Aquifer Area km$^2$ | Hydrometric Area Number |
|---|---|---|---|
| SH 2 Offaly East of Shannon | South Offaly Sand/Gravel | 50 | 26 |
| | Roscrea Sand/Gravel | 10.6 | |
| | Birr Sand/Gravel | 17.5 | |
| | Tullamore Limestone | 25.6 | |
| | Clonaslee Sandstone | 20 | |
| SH 3 Brosna | Birr Sand/Gravel | 10.6 | 26 |
| | Clara Sand/Gravel | 6 | |
| | Clonaslee Sand/Gravel | 6.2 | |
| | Tullamore Limestone | 177.6 | |
| | Ferbane Sandstone | 2.4 | |
| | Clonaslee Sandstone | 12.5 | |
| SH 4 Westmeath/Offaly East of Shannon | Uppper Devonian/Lr Carboniferous Sandstone | 14.5 | 26 |
| SH 5 Inny | Quaternary Sand/Gravel | 2 | 26 |
| | Curry Rock Limestone | 71.2 | |
| | Lough Sheelin Sandstone | 11.4 | |
| | Ballinacargy Sandstone | 7.9 | |
| SH 6 Longford East of Shannon | Lanesborough Limestone | 122.9 | 26 |
| | Ardagh Sandstone | 14.3 | |
| | Longford Sandstone | 13.1 | |
| | Cloon Grange Sandstone | 10 | |
| SH 7 Leitrim East of Shannon | Cavetown Limestone | 25.2 | 26 |
| | Boyle Sandstone | 20.2 | |
| | Strokestown Sandstone | 34.6 | |
| | Keadew Limestone | 6.4 | |
| | Cloon Grange Sandstone | 14.4 | |
| SH 8 Dowra | Dowra Sandstone | 66.9 | 26 |
| SH 9 Roscommon/Sligo West of Shannon | Cavetown Limestone | 4.6 | 26 |
| | Boyle Limestone | 8.9 | |
| | Keadew Limestone | 23.7 | |
| SH 10 Boyle | Cavetown Limestone | 4.6 | 26 |
| | Boyle Sandstone | 49.8 | |
| | Oakport Limestone (Lung) | 153.1 | |
| | Bellanagare (Boyle) Sandstone | 10 | |
| | Athleague Limestone | 23.9 | |
| | Curlew Sandstone | 25.8 | |
| SH 11 Roscommon West of Shannon | Lanesborough Limestone | 23.5 | 26 |
| | Lisdaly (Cavetown) Limestone | 10.2 | |
| | Strokestown Sandstone | 48.3 | |
| SH 12 Suck | Quaternary Sand/Gravel | 144.3 | 26 |
| | Athleague Limestone | 986 | |
| | Mount Mary Sandstone | 38.9 | |
| | Bellangare (Boyle) Sandstone | 9.7 | |
| | Ballinasloe Limestone | 31 | |
| | Ballinlough (Boyle) Sandstone | 32.9 | |
| SH 13 Roscommon West of Shannon | Quaternary Sand/Gravel | 28.1 | 26 |
| | Athleague Limestone | 158.1 | |
| SH 14 Galway West of Shannon | Quaternary Sand/Gravel | 302.5 | 25 |
| | Slieve Aughty Sandstone | 40 | |
| SH 15 Clare West of Shannon | Slieve Aughty Sandstone | 35 | 25 |
| SH 16 Mulkear-Shannon | Quaternary Sand/Gravel | 123 | 25 |
| | Carboniferous Limestone /Volcanics | 212.5 | |
| | Upper Devonian Sandstone | 79.5 | |

Table 1 (continued)

**WESTERN WATER RESOURCE REGION**

| Aquifer Unit Number and Hydrological Reference | Aquifer Geology | Aquifer Area $km^2$ | Hydrometric Area Number |
|---|---|---|---|
| W 1 North West .Mayo (Owenmore) | Quaternary Sand/Gravel<br>Carboniferous Sandstone | 403 | 33 |
| W 2 Lough Conn (Ballina) | Quaternary Sand/Gravel<br>Carboniferous Limestone | 395.5 | 34 |
| W 3 Upper Moy | Quaternary Sand/Gravel<br>Carboniferous Limestone<br>Carboniferous Sandstone | 155 | 34 |
| W 4 Gweestion | Quaternary Sand/Gravel<br>Carboniferous Limestone<br>Carboniferous Sandstone | 357.5 | 34 |
| W 5 Clydagh | Carboniferous Limestone<br>Carboniferous Sandstone | 215 | 34 |
| W 6 Clew Bay | Carboniferous Sandstone | 200.5 | 32 |
| W 7 Achill | Carboniferous Sandstone | 15 | 32 |
| W 8 Erriff | Carboniferous Sandstone | 5 | 32 |
| W 9 Lough Mask | Carboniferous Limestone<br>Carboniferous Sandstone | 90.1 | 30 |
| W 10 Upper Clare | Quaternary Sand/Gravel<br>Carboniferous Limestone | 92.5 | 30 |
| W 11 Black River | Carboniferous Limestone | 336 | 30 |
| W 12 Bealanabrack | none | 0 | 31 |
| W 13 Connemara | none | 0 | 30 |
| W 14 West Corrib | Carboniferous Limestone | 93 | 30 |
| W 15 Lower Clare | Quaternary Sand/Gravel<br>Carboniferous Limestone | 542 | 30 |
| W 16 Clarin-Kilcolgan | Quaternary Sand/Gravel<br>Carboniferous Limestone | 505 | 29 |
| W 17 Gort | Carboniferous Limestone<br>Upper Devonian Sandstone | 330<br>66 | 29 |
| W 18 North Clare | Carboniferous Limestone | 100 | 29 |

**NORTH WESTERN WATER RESOURCE REGION**

| | | | |
|---|---|---|---|
| NW 1 North Monaghan | Carboniferous Limestone<br>Carboniferous Sandstone | 107.5<br>105 | 03 |
| NW 2 Annalee | Carboniferous Limestone | 0.5 | 36 |
| NW 3 Lough Gowna | none | 0 | 36 |
| NW 4 Lough Oughter | Carboniferous Limestone & Basal Clastics | 285 | 36 |
| NW5 Woodford | Carboniferous Limestone<br>Carboniferous Limestone | 132.5<br>25 | 36 |
| NW 6 Arney | Carboniferous Limestone | 20.5 | 36 |

Table 1 (continued)

| **Aquifer Unit Number and Hydrological Reference** | **Aquifer Geology** | **Aquifer Area km$^2$** | **Hydrometric Area Number** |
|---|---|---|---|
| NW 7 Sligo Bay | Quaternary Sand/Gravel<br>Carboniferous Limestone | 12<br>18 | 35 |
| NW 8 Ballysodare | Quaternary Sand/Gravel<br>Carboniferous Sandstone<br>Carboniferous Limestone | 30<br>3<br>305 | 35 |
| NW 9 Sligo | Carboniferous Limestone<br>Carboniferous Sandstone | 57.5<br>19 | 35 |
| NW 10 Bundoran | Carboniferous Limestone<br>Carboniferous Sandstone | 15<br>112 | 37 |
| NW 11 Lough Derg | none | 0 | 01 |
| NW 12 Donegal | Carboniferous Sandstone | 20 | 37 |
| NW 13 Ardara | none | 0 | 37 |
| NW 14 Upper Foyle | none | 0 | 01 |
| NW 15 Burtonport | none | 0 | 38 |
| NW 16 Lough Swilly | none | 0 | 39 |
| NW 17 Sheep Haven | none | 0 | 38 |
| NW 18 Inishowen | Carboniferous Sandstone | 8 | 40 |

Insert Map 1

## Table 2

## Groundwater Quality Monitoring Programme

## Details of Representative Monitoring Network.

| County | Plot No. | National Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| CARLOW | 1 | S713 620 | Bagenalstown WS | Spring | SE 5 | 165.0 | Public |
| CARLOW | 2 | S708 619 | Bagenalstown WS(B) | Bore | SE 5 | 650.0 | Public |
| CARLOW | 3 | S710 620 | Bagenalstown WS(A) | Well | SE 5 | 90.0 | Public |
| CARLOW | 10 | S720 619 | Aughney Springs | Springs | SE 5 | | |
| CARLOW | 11 | S720 771 | Celtic Linen | Bore | SE 5 | | Private |
| CARLOW | 13 | S720 785 | Irish Sugar Co. | Bore | SE 5 | | Private |
| CARLOW | 14 | S712 744 | Mortarstown GWS | Bore | SE 5 | | Group |
| CARLOW | 15 | S730 800 | Oakpark | Bore | SE 5 | | Private |
| CARLOW | 16 | S707 677 | Orchard Springs | Spring | SE 5 | | Public |
| CARLOW | 17 | S715 638 | Rathduff GWS | Bore | SE 5 | | Group |
| | | | | | | | |
| CAVAN | 4 | H218 190 | Bawnboy WS | Bore | NW 5 | 45.0 | Public |
| CAVAN | 18 | N776 977 | Crow | Bore | NW 4 | | Private |
| CAVAN | 21 | N801 980 | Gilmore | Bore | E 2 | | Private |
| CAVAN | 26 | N441 893 | Foxfield Mushrooms | Bore | NW 3 | | Private |
| CAVAN | 33 | H307 075 | Lakeland Dairies | Bore | NW 4 | | Private |
| CAVAN | 40 | H217 185 | Mc Kiernan | Bore | NW 5 | | Private |
| CAVAN | 52 | H262 142 | Skellan Farm | Bore | NW 5 | | Private |
| CAVAN | 89 | H281 132 | Frehill GWS | Bore | NW 4 | | Group |
| CAVAN | 90 | N780 962 | Kingscourt Parochial House | Bore | E 2 | | Private |
| | | | | | | | |
| CLARE | 1 | R219 063 | Ballyvaughan | Bore, Spring | W 18 | 568.0 | Public |
| CLARE | 4 | M286 003 | Carron WS | Spring | MW 3 | | Public |
| CLARE | 6 | R388 736 | Carrowmere GWS | Bore | MW 5 | 8.0 | Group |
| CLARE | 9 | R334 791 | Ennis WS | Spring | MW 5 | | Public |
| CLARE | 21 | R405 947 | Tubber GWS | Spring | MW 3 | 84.0 | Group |
| | | | | | | | |
| CORK NTH | 2 | R283 122 | Balinatona RWS | Spring | S 15 | 6362.0 | Public |
| CORK NTH | 26 | R530 147 | Charleville RWS | Bores | S 17 | 2500.0 | Public |
| CORK NTH | 28 | W919934 | Conna Village WS | Spring Bore | S 20 | | Public |
| CORK NTH | 34 | R662 074 | Buttevant-Doneraile RWS | Spring | S 17 | 3200.0 | Public |
| CORK NTH | 62 | W260 924 | Millstreet WS | Well | S 15 | 662.0 | Public |
| CORK NTH | 82 | W778 983 | Fermoy UDC | Gallery | S 18 | | Public |
| CORK NTH | 83 | R811 100 | Mitchelstown (new) WS | Bore | S 18 | 456 | Public |
| CORK NTH | 133 | W556 985 | Dairygold | Bore | S 16 | | Private |
| | | | | | | | |
| CORK STH | 4 | W841 820 | Ballincurrig-Top Cross -Lisgoold WS | Bores | S 14 | 200.0 | Public |

Table 2 (continued)

| County | Plot No. | National Grid Ref. | Name | Source | Aquifer Unit+ | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| CORK STH | 21 | W919 672 | Cloyne-Aghada WS | Bores | S 14 | 1360.0 | Public |
| CORK STH | 24 | W436 660 | Crookstown WS | Bore | S 13 | 145.0 | Public |
| CORK STH | 25 | W945 801 | Dungourney WS | Bore | S 14 | 36.0 | Public |
| CORK STH | 48 | W417 821 | Rylane WS | Bore | S 13 | 90.0 | Public |
| CORK STH | 52 | W698 777 | Whites Cross WS | Bore | S 13 | 36.0 | Public |
| | | | | | | | |
| DONEGAL | 4 | C462 462 | Carndonagh WS | Bore | NW 18 | 1550.0 | Public |
| DONEGAL | 13 | C340 290 | Fruit of the Loom | Bore | NW 16 | 170.0 | Private |
| DONEGAL | 14 | C520 455 | Gleneely WS | Well | NW 18 | 200.0 | Public |
| DONEGAL | 22 | C288 023 | Craig, Mr. William | Spring | NW 14 | 0.1 | Private |
| DONEGAL | 24 | G837 646 | Creevy, Pier Hotel | Artesian Well | NW 12 | 0.3 | Private |
| DONEGAL | 25 | G859 779 | Mc Monagle, Mr. M. | Bore | NW 12 | 0.1 | Private |
| | | | | | | | |
| DUBLIN | 4 | O252 548 | Hayestown, Rush | Bore | E 6 | | Private |
| | | | | | | | |
| GALWAY | 4 | M506 272 | Athenry WS | Spring, Bore | W 16 | 800.0 | Public |
| GALWAY | 9 | M761 522 | Ballygar WS | Spring | SH 12 | 235.0 | Public |
| GALWAY | 55 | M412 539 | Kilbennon GWS | Spring | W 10 | 436.0 | Group |
| GALWAY | 56 | M326 586 | Kilconly-Tuam GWS | Spring | W 11 | 468.0 | Group |
| GALWAY | 59 | M644 539 | Kilkerrin-Moylough RWS | Spring | SH 59 | 1094.0 | Public |
| GALWAY | 62 | M378 101 | Kinvara RWS | Bore | W 17 | 306.0 | Public |
| GALWAY | 70 | M540 447 | Mid-Galway RWS | Spring | W 15 | 3000.0 | Public |
| GALWAY | 73 | M665 450 | Mountbellew WS | Spring | SH 12 | 281.0 | Public |
| GALWAY | 85 | M471 526 | Tuam WS | Spring | W 10 | 2273.0 | Public |
| GALWAY | 89 | M547 451 | Barnaderg GWS | Spring | W 15 | 413.0 | Group |
| GALWAY | 92 | M674 279 | New Inn GWS | Spring | W 16 | 80.0 | Group |
| GALWAY | 94 | M572 595 | Gortgarran | Spring | W 10 | 46.0 | Public |
| GALWAY | 113 | M571 131 | Kilchrest GWS | Bore | W 17 | 43.0 | Group |
| GALWAY | 121 | M794 126 | Nenagh Co-op | Bore | SH 14 | 100.0 | Private |
| | | | | | | | |
| KERRY | 1 | Q574 037 | Anascaul WS | Springs | S 2 | 200.0 | Public |
| KERRY | 5 | Q425 078 | Ballinloghig WS | Well | MW 16 | 27.0 | Public |
| KERRY | 47 | Q906 267 | Lixnaw WS | Spring | MW 13 | 910.0 | Public |
| KERRY | 53 | W161 885 | Rathmore WS | Well | S 15 | 300.0 | Public |
| KERRY | 56 | Q782 216 | South Ardfert RWS | Bore | MW 15 | 2270.0 | Public |
| KERRY | 58 | R075 464 | Tarbert WS | Spring | MW 11 | 182.0 | Public |
| KERRY | 61 | V996 924 | Tullig GWS | Bore | S 4 | 23.0 | |
| KERRY | 66 | Q768 265 | Ballyheigue WS (North Adfert RWS) | Springs | MW 13 | 3636 | Public |
| KERRY | 68 | Q364 044 | Kerry Spring Water | Bore | MW 16 | | Private |
| KERRY | 69 | R017 098 | Former Castleisland WS | Spring | S 3 | | Public |
| KERRY | 70 | W004 750 | Roughty Valley Pigs | Bore | S 6 | | Private |
| KERRY | 82 | Q853 147 | John A Wood | Bore | MW 15 | 140.0 | Private |
| KERRY | 98 | Q976 045 | Kerry Co-op | Bore | S 3 | 206.0 | Private |
| KERRY | 112 | W018 903 | Quirkes Sandpit | Bore | S 4 | | Private |
| | | | | | | | |
| KILDARE | 6 | S805 860 | Castledermot WS | Bore | SE 5 | 430.0 | Public |
| KILDARE | 15 | N647 125 | Monasterevin WS | Bore | SE 4 | 645.0 | Public |
| KILDARE | 18 | S640 955 | Churchtown WS | Bore | SE 5 | 120.0 | Public |

Table 2 (continued)

| County | Plot No. | National. Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| KILDARE | 20 | N635 064 | Lughill-Monasterevin WS | 3 Springs | SE 4 | | Public |
| KILDARE | 22 | N819 394 | Newtown-Kilcock WS | Bore | E 4 | 17.0 | Public |
| KILDARE | 23 | N773 155 | Pollardstown Fen WS | Spring | SE 4 | | Public |
| KILDARE | 40 | N655 390 | Clogherinkoe WS | Bore | E 4 | 11.0 | Public |
| KILDARE | 42 | N770 115 | Hare Park (Curragh Camp) | Bore | SE 4 | 1000.0 | Dept. of Defence |
| KILDARE | 46 | S658 993 | Kilberry Area WS | Bore | SE 5 | 400.0 | Public |
| KILDARE | 50 | N788 117 | McDonagh (Curragh Camp) | Bore | E 8 | 450.0 | Dept. of Defence |
| | | | | | | | |
| KILKENNY | 17 | S302 710 | Galmoy GWS | Bore | SE 8 | 20.0 | Group |
| KILKENNY | 32 | S589 415 | Thomastown WS | Gallery | SE 9 | | Public |
| KILKENNY | 34 | S300 635 | Urlingford-Johnstown WS | Spring | SE 8 | | Public |
| KILKENNY | 39 | S552 469 | Busheenmore | Springs | SE 8 | | Private |
| KILKENNY | 41 | S577 553 | Clara GWS | Bore | SE 8 | | Group |
| KILKENNY | 45 | S393 525 | Kilmanagh GWS | Bore | SE 8 | | Group |
| KILKENNY | 46 | S660 570 | Paulstown Castle (Gowran-Goresbridge-Paulstown RWS) | Springs | SE 5 | 795 | Public |
| KILKENNY | 50 | S258 661 | Bawnmore GWS | Bore | SE 11 | | Group |
| KILKENNY | 53 | S500 602 | Dunmore Sand & Gravel | Bore | SE 8 | | Private |
| KILKENNY | 55 | S587 551 | Rathcash GWS | Bore | SE 8 | | Group |
| KILKENNY | 91 | S407 442 | Westcourt- Callan WS | Spring | SE 8 | 840 | Public |
| | | | | | | | |
| LAOIS | 1 | S452 841 | Abbeyleix WS | Spring | SE 8 | 227.0 | Public |
| LAOIS | 2 | S458 835 | Abbeyleix WS | Spring | SE 8 | 237.0 | Public |
| LAOIS | 3 | S459 839 | Abbeyleix WS | Spring | SE 8 | 376.0 | Public |
| LAOIS | 5 | S602 839 | Athy Town WS | Spring | SE 5 | 450.0 | Public |
| LAOIS | 12 | N309 094 | Clonaslee WS | Spring | SE 3 | 46.0 | Public |
| LAOIS | 13 | S678 836 | Coolenaugh WS | Bore | SE 5 | | Public |
| LAOIS | 14 | S403 775 | Durrow WS | Bore | SE 8 | 530.0 | Public |
| LAOIS | 19 | N452 059 | Mountmellick WS | Bore | SE 4 | | Public |
| LAOIS | 22 | S479 971 | Portlaoise WS | Spring | SE 4 | 409.0 | Public |
| LAOIS | 23 | N494 019 | Portlaoise WS | Spring | SE 4 | 1818.0 | Public |
| LAOIS | 28 | S564 824 | Swan-Newtown-Doonane RWS | Bore | SE 8 | 520.0 | Public |
| LAOIS | 37 | S260 850 | Donoghmore | Bore | SE 7 | | |
| LAOIS | 39 | S361 791 | Fermoyle | Bore | SE 8 | | |
| LAOIS | 40 | N370 001 | Knocks (Mountrath WS) | Bore | SE 7 | | Public |
| | | | | | | | |
| LEITRIM | 2 | H183 010 | Aghavas GWS | Bore | SH 7 | 18.0 | Group |
| LEITRIM | 5 | H113 099 | Ballinamore WS | Spring | NW 5 | 455.0 | Public |
| LEITRIM | 11 | N061 910 | Cloonturk GWS | Bore | SH 7 | 22.0 | Group |
| LEITRIM | 13 | H002 420 | Corracloona GWS | Spring | NW 6 | 5.0 | Group |
| LEITRIM | 17 | N080 943 | Drumard-Jones GWS | Bore | SH 7 | 5.0 | Group |

Table 2 (continued)

| County | Plot No. | National Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| LEITRIM | 22 | G906 353 | Glenboy GWS | Spring | NW 9 | 142.0 | Group |
| LEITRIM | 24 | N118 925 | GortletteraghGWS | Bore | SH 7 | 22.0 | Group |
| LEITRIM | 26 | G941 438 | Kiltyclogher WS | Spring | NW 19 | 90.0 | Public |
| LEITRIM | 37 | G925 421 | Tawnyfealce GWS | Spring | NW 9 | 33.0 | Group |
| LEITRIM | 44 | G839 570 | Gallagher, N | Bore | NW 19 | 0.1 | Private |
| LEITRIM | 57 | G822 294 | Collins, Erica | Bore | NW 9 | 0.1 | Private |
| | | | | | | | |
| LIMERICK | 7 | R472 280 | Ballyagran WS | Bore | MW 9 | 218.0 | Public |
| LIMERICK | 11 | R780 238 | Ballylanders WS | Bore | SE 11 | | Public |
| LIMERICK | 25 | R680 500 | Caherconlish WS | Well | SH 16 | 436.0 | Public |
| LIMERICK | 41 | R508 413 | Croom WS | Bore | MW 9 | 409.0 | Public |
| LIMERICK | 42 | R824 504 | Doon WS | Well | SH 16 | | Public |
| LIMERICK | 46 | R593 445 | Fedamore | Well | MW 9 | 68.0 | Public |
| LIMERICK | 49 | R130 465 | Glin WS | Bore | MW 11 | | Public |
| LIMERICK | 55 | R685 409 | Herbertstown GWS | Bore | MW 9 | 318.0 | Group |
| LIMERICK | 56 | R706 363 | Hospital WS | Bore | MW 9 | | Public |
| LIMERICK | 57 | R705 365 | Hospital WS | Bore | MW 9 | 505.0 | Public |
| LIMERICK | 62 | R360 370 | Kilcolman WS | Well | MW10 | | Public |
| LIMERICK | 82 | R727 563 | Moroe WS | Wells | SH 16 | 650.0 | Public |
| LIMERICK | 89 | R764 440 | Pallasgreen WS | Well | SH I6 | 382.0 | Public |
| LIMERICK | 105 | R370 344 | Clonagh | | MW 10 | | Public |
| LIMERICK | 109 | R650 405 | Lough Gur | | MW 9 | | Public |
| LIMERICK | 110 | R710 268 | Martinstown-Ballinvreena GWS | | MW 9 | | Group |
| LIMERICK | 111 | R318 280 | South West RWS | Spring / Well | MW 10 | 1250.0 | Public |
| | | | | | | | |
| LONGFORD | 9 | N005 638 | Formoyle GWS | Bore | | 27.0 | Group |
| LONGFORD | 12 | N140 625 | Keenagh WS | Spring | SH 5 | 520.0 | Public |
| LONGFORD | 13 | N008 695 | Lanesboro RWS | Bore | SH 6 | 2000.0 | Public |
| LONGFORD | 14 | N035 584 | Newtowncashel WS | Spring | SH 6 | 436.0 | Public |
| LONGFORD | 25 | N102 657 | Lisrevagh | Bore | | | |
| | | | | | | | |
| LOUTH | 2 | O070 823 | Brownstown GWS | Bore | E 1 | 25.0 | Public |
| LOUTH | 9 | O065 925 | Greenmount WS | Bore | E 2 | | Public |
| LOUTH | 12 | O069 788 | Killineer GWS | Bore | E 3 | 45.0 | Group |
| LOUTH | 17 | O012 768 | Sheepgrange GWS | Bore | E 3 | 76.0 | Group |
| LOUTH | 18 | O041837 | Tenure GWS | Bore | E 2 | 70.0 | Group |
| LOUTH | 20 | O024 781 | Tullyallen GWS | Bore | E 3 | 500.0 | Group |
| LOUTH | 22 | J194 062 | Ardtullybeg (Cooley RWS) | Bore | E 1 | | Public |
| LOUTH | 23 | O078 758 | Boyne Valley Honey | Bore | E 3 | 15.0 | Private |
| LOUTH | 32 | J041 075 | Harris Ireland | Bore | E 1 | 730.0 | Private |
| LOUTH | 56 | O091 770 | Yellowbatter | Bore | E 3 | | Public |
| LOUTH | 57 | N957 903 | Ardee | Bore | E 2 | | Public |
| | | | | | | | |
| MAYO | 2 | M363 696 | Ballindine | Spring | W 9 | 450.0 | Private |
| MAYO | 4 | M492 791 | Ballyhaunis WS | Spring | W 9 | 718.0 | Public |
| MAYO | 12 | G101 168 | Crossmolina WS | Well | W 2 | 900.0 | Public |
| MAYO | 16 | M442 923 | Kilkelly WS | Spring | W 4 | 250.0 | Public |
| MAYO | 24 | M385 980 | Swinford WS | Spring | W 4 | 850.0 | Public |
| MAYO | 32 | M290 681 | Lisatava GWS | Spring | W 1 | 100.0 | Group |
| MAYO | 46 | M243 948 | Bellavary GPS | Spring | W 5 | 150.0 | Group |

Table 2 (continued)

| County | Plot No. | National Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| MAYO | 47 | M456 996 | Charlestown WS | Spring | W 3 | 800.0 | Public |
| MAYO | 48 | G110 172 | Crossmolina | Well | W 2 | 0.1 | Private |
| MAYO | 49 | G104 321 | Glenedagh | Bore | W 1 | 0.1 | Private |
| MAYO | 50 | G200 303 | Killala | Bore | W 2 | 0.1 | Private |
| | | | | | | | |
| MEATH | 9 | N850 820 | Castletown Housing | Bore | E 2 | 23.0 | Public |
| MEATH | 12 | N774 413 | Enfield WS | Bore | E 4 | 240.0 | Public |
| MEATH | 15 | N791 890 | Kilmainhamwood GWS | Bore | E 2 | 54.0 | Public |
| MEATH | 16 | N887 573 | Kilmessan Housing | Bore | E 4 | 7.0 | Group |
| MEATH | 20 | N828 861 | Nobber WS | Bore | E 2 | 100.0 | Public |
| MEATH | 21 | N794 492 | Rathmolyon Housing | Bore | E 4 | 7.0 | Public |
| MEATH | 23 | N962 737 | Slane WS | Bore | E 3 | 535.0 | Public |
| MEATH | 26 | O033 557 | Curragha | Bore | E 5 | | Public |
| MEATH | 71 | N638 406 | O'Connor, T | Bore | E 4 | 19.0 | Private |
| MEATH | 93 | N648 452 | Clonard | Bore | E 4 | | Public |
| MEATH | 99 | O014 675 | Garballagh | Bore | E 5 | | Private |
| MEATH | 102 | N868 699 | Kilsaran Concrete, Navan | Bore | E 3 | | Private |
| MEATH | 106 | N731 488 | Mick Byrne | Bore | E 4 | | Private |
| MEATH | 107 | N623 416 | O'Conner Park | Bore | E 4 | | Private |
| MEATH | 111 | N779 528 | Trim Golf Club | Bore | E 4 | | Private |
| | | | | | | | |
| MONAGHAN | 8 | H679 346 | MonaghanTown WS(E) | Bore | NW 1 | | Public |
| MONAGHAN | 10 | H589 307 | Smithborough WS | Bore | NW 1 | 330.0 | Public |
| MONAGHAN | 11 | H577 407 | Tydnavet GWS | Bore | NW 1 | 545.0 | Group |
| MONAGHAN | 13 | H600 453 | Braggan Water | Bore | NW 1 | | Private |
| MONAGHAN | 21 | H582 312 | Grove Farm | Bore | NW 1 | | Private |
| MONAGHAN | 39 | H504 251 | Meadow Meats | Bore | NW 1 | | Private |
| MONAGHAN | 80 | N839 997 | Limestone Ltd | Bore | E 2 | 14.0 | Private |
| MONAGHAN | 103 | H674 345 | Dawn Pork | Bore | NW 1 | | Private |
| MONAGHAN | 104 | N780 995 | Drummond GWS | Bore | E 2 | 14.0 | Group |
| MONAGHAN | 105 | H678 444 | Silver Hill Ducklings | Bore | NW 1 | 436.0 | Private |
| | | | | | | | |
| OFFALY | 3 | N029 140 | Banagher (Lusmagh) RWS | Bore | SH 2 | 320.0 | Public |
| OFFALY | 4 | S169 970 | Clareen GWS | Spring | SH 2 | 380.0 | Group |
| OFFALY | 5 | N074 197 | Cloghan WS | Bore | SH 3 | 170.0 | Public |
| OFFALY | 10 | S062 848 | Dunkerrin WS | Springs | SH 2 | 880.0 | Public |
| OFFALY | 11 | N118 233 | Ferbane-Belmont WS | Bores | SH 3 | 295.0 | Public |
| OFFALY | 13 | N450 215 | Geashill WS | Spring | SH 3 | 230.0 | Public |
| OFFALY | 19 | N274 266 | Rahan WS | Bore | SH 3 | 1475.0 | Public |
| OFFALY | 21 | N267 233 | Rahan WS | Spring | SH 3 | 1475.0 | Public |
| OFFALY | 23 | N516 317 | Rhode RWS | Spring | SE 4 | 2520.0 | Public |
| OFFALY | 27 | N522 211 | Walsh Island WS | Spring, Bore | SE 4 | 410.0 | Public |
| OFFALY | 28 | N309 094 | Clonaslee | Bore | SH 4 | 2072.0 | Public |
| OFFALY | 29 | N645 335 | Edenderry WS | Bore | SE 4 | 450.0 | Public |
| | | | | | | | |

Table 2 (continued)

| County | Plot No. | National Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| ROSCOMMON | 10 | M574 742 | Ballybane (Ballinlough-Loughglynn RWS) | Bore | SH 12 | 3400.0 | Public |
| ROSCOMMON | 16 | M700 795 | Castlerea WS | Spring | SH 12 | 1600.0 | Public |
| ROSCOMMON | 17 | M690 790 | CastlereaRws | Spring | SH 12 | 2545.0 | Public |
| ROSCOMMON | 19 | M675 952 | Cloonmagunaun | Spring | SH 10 | 1100.0 | Public |
| ROSCOMMON | 27 | M934 597 | Keadew WS | Spring | SH 9 | 159.0 | Public |
| ROSCOMMON | 29 | M934 597 | Knockcroghery RWS | Spring | SH 13 | 760.0 | Public |
| ROSCOMMON | 30 | M964 551 | Lecarrow | Spring | SH 13 | 675.0 | Public |
| ROSCOMMON | 32 | M821 524 | Mount Talbot RWS | Spring | SH 12 | 2345.0 | Public |
| ROSCOMMON | 39 | M818 678 | Roscommon WS | Spring | SH 12 | 2045.0 | Public |
| ROSCOMMON | 42 | M887 406 | South Roscommon RWS | Spring | SH 12 | 4275.0 | Public |
| ROSCOMMON | 43 | M927 800 | Strokestown WS | Spring | SH 11 | 409.0 | Public |
| ROSCOMMON | 45 | N052 791 | Whitehall WS | Bore | SH 6 | 46.0 | Public |
| ROSCOMMON | 55 | M827 997 | Croghan GWS | Spring | SH 10 | 223.0 | Group |
| ROSCOMMON | 73 | M917 290 | Coolderry GWS (2) | Bore | SH 12 | | Group |
| | | | | | | | |
| SLIGO | 3 | G684 444 | Benbulben GWS | Spring | NW 9 | 27.0 | Group |
| SLIGO | 8 | G719 187 | Carrowagark GWS | Spring | NW 8 | 23.0 | Group |
| SLIGO | 10 | G706 431 | Drum East GWS | Spring | NW 9 | 168.0 | Group |
| SLIGO | 13 | G660 125 | Gulfadda GWS | Spring | NW 8 | 165.0 | Group |
| SLIGO | 19 | G710 328 | Tobernalt | Spring | NW 9 | | Private |
| SLIGO | 27 | G691 174 | Gorman, Mgt | Bore | NW 8 | 0.3 | Private |
| | | | | | | | |
| TIPP. NTH | 14 | R927 934 | Borrisokane RWS | Bore | SH 1 | 500.0 | Public |
| TIPP. NTH | 27 | R966 880 | Cloughjordan WS | Spring | SH 1 | 320.0 | Public |
| TIPP. NTH | 37 | S089 541 | Holycross | Bore | SE 11 | 25.0 | Public |
| TIPP. NTH | 47 | S178 541 | Littleton WS | Bore | SE 11 | 130.0 | Public |
| TIPP. NTH | 50 | S155 495 | Moycarkey-Horse and Jockey | Bore | SE 11 | 160.0 | Public |
| TIPP. NTH | 52 | S183 673 | Moyne GWS | Bore | SE 10 | 50.0 | Group |
| TIPP. NTH | 73 | S126 591 | Thurles WS | Spring | SE 11 | 250.0 | Public |
| TIPP. NTH | 81 | S120 820 | Clonakenny GWS | Bore | SE 7 | | Group |
| TIPP. NTH | 82 | S022 560 | Drombane WS | Bore | SE 10 | | Public |
| TIPP. NTH | 83 | R955 972 | Eglish | Bore | SH 1 | | Public |
| TIPP. NTH | 84 | S206 858 | Knock GWS | Bore | SE 7 | | Group |
| TIPP. NTH | 85 | N045 032 | Riverstown | Spring | SH 1 | | Public |
| | | | | | | | |
| TIPP. STH | 17 | R914 469 | Ironmills | Bore | SE 10 | 1200.0 | Public |
| TIPP. STH | 24 | S272 512 | Coalbrook WS | Bore | SE 8 | 546.0 | Public |
| TIPP. STH | 26 | R905 341 | Cordangan WS | Bore | SE 11 | | Public |
| TIPP. STH | 28 | R986 218 | Kilcoran | Bore | SE 12 | | Private |
| TIPP. STH | 29 | S231 319 | Kiltinan Castle | Spring | SE 11 | | Private |
| TIPP. STH | 31 | S377 221 | Miloko | Bore | SE 12 | | Private |
| TIPP. STH | 35 | S080 496 | Toberdorah | Spring | SE 11 | | Private |
| TIPP. STH | 38 | S108 130 | Crohan | Spring | SE 12 | | |
| TIPP. STH | 44 | S080 140 | Poulatar | Spring | SE 12 | | Private |

Table 2 (continued)

| County | Plot No | National Grid Ref. | Name | Source | Aquifer Unit | Quantity $m^3/d$ | Ownership |
|---|---|---|---|---|---|---|---|
| TIPP. STH | 45 | S006 394 | Springmount | Springs | | | Public |
| TIPP. STH | 46 | S276 486 | Ballincurry | Bore | SE 8 | 227.0 | Public |
| TIPP. STH | 47 | S280 335 | Cloran | Spring | SE 12 | | Public |
| TIPP. STH | 50 | S224 344 | Mullenbawn | | SE 11 | | Public |
| WATERFORD | 15 | X026 913 | Ballymoate WS | Bore | S 20 | 20.0 | Public |
| WATERFORD | 33 | X132 849 | Clashmore WS | Spring | S 21 | 115.0 | Public |
| WATERFORD | 42 | S503 025 | Dunhill WS | Bore | SE 13 | 5.0 | Public |
| WATERFORD | 51 | X132 892 | Goish | Bore | S 20 | 14.0 | Public |
| WATERFORD | 55 | X172 817 | Grange-Ballybrusa WS | Bore | S 21 | | Public |
| WATERFORD | 60 | X142 938 | Keereen WS | Bore | S 19 | 10.0 | Public |
| WATERFORD | 70 | S303 009 | Kilrossanty WS | Bore | SE 13 | 55.0 | Public |
| WATERFORD | 73 | S324 017 | Knockyelan WS | Spring | SE 13 | | Public |
| WATERFORD | 86 | S237 211 | Poulnagunoge | Bore | SE 12 | 27.0 | Public |
| WATERFORD | 95 | W999947 | Tallow Hill WS | Spring | S 20 | 30.0 | Public |
| WATERFORD | 108 | X135 976 | Ballyhane | Bore | S 19 | | Public |
| WATERFORD | 109 | S602 050 | Ballykinsella | Bore | SE 12 | | Public |
| WATERFORD | 111 | X115 928 | Cappoquin | Bore | S 20 | | Public |
| WATERFORD | 112 | X236 948 | Dungarvan | Bore | SE 13 | | Public |
| WATERFORD | 113 | X106 975 | Lafanta | Bore | S 19 | | Public |
| | | | | | | | |
| WESMEATH | 5 | N090 465 | Glasson GWS | Well | SH 4 | 6.0 | Group |
| WESMEATH | 7 | N562 562 | Lewinstown GWS | Bore | E 4 | 10.0 | Group |
| WESMEATH | 9 | N214 389 | Moate | Spring | SH 3 | 1136.0 | Public |
| WESMEATH | 12 | N417 628 | Multyfarnham GWS | Spring | SH 5 | 165.0 | Group |
| WESMEATH | 17 | N491 763 | Ballymanus Piggeries | Spring | SH 5 | 82.0 | Private |
| WESMEATH | 25 | N686 644 | Craddanstown Lodge | Bore | E 4 | | Group |
| | | | | | | | |
| WEXFORD | 6 | S947 325 | Bree WS | Bore | SE 2 | 100.0 | Public |
| WEXFORD | 8 | T075 523 | Camolin WS | Bore | SE 2 | 91.0 | Public |
| WEXFORD | 9 | S831 245 | Carrigbyrne | Bore | SE 3 | 204.0 | Public |
| WEXFORD | 14 | T187 702 | Coolgreany | Bore | SE 1 | 600.0 | Public |
| WEXFORD | 36 | T074 275 | Ballina | Bore | SE 1 | | Public |
| WEXFORD | 37 | S711 178 | Ballinamona | Bore | SE 6 | | Public |
| WEXFORD | 39 | T150 420 | Ballygarran | Bore | SE 1 | | Public |
| WEXFORD | 41 | T135 557 | Barnadown | Bore | SE 1 | | Public |
| WEXFORD | 42 | S923 572 | Bradys Hill-Gurteen | Bore | SE 2 | | Public |
| WEXFORD | 44 | T012 142 | Busherstown 3 | Bore | SE 3 | | Public |
| WEXFORD | 45 | S960 342 | Edermine | Bore | SE 2 | | Public |
| WEXFORD | 46 | T050 136 | Orristown | Bore | SE 3 | | Public |
| WEXFORD | 47 | T032 139 | Rathmacknee | Bore | SE 3 | | Public |
| WEXFORD | 49 | S756 214 | Tellerought | Bore | SE 3 | | Group |
| WEXFORD | 50 | T137 415 | Newtown | | SE 1 | | Public |
| | | | | | | | |
| WICKLOW | 26 | T250 840 | Redcross | Bores | E9 | 180.0 | Public |
| WICKLOW | 27 | O187 034 | Roundwood | Spring, ,Bore | E 9 | 135.0 | Public |
| WICKLOW | 33 | N975 140 | Ashtown GWS (Blessington) | Bore | E 8 | | Group |
| WICKLOW | 43 | S878 878 | Baltinglass WS | Bore | SE 4 | 450.0 | Public |
| WICKLOW | 44 | O292 077 | Bulford Farm | | E 9 | 50.0 | Private |
| WICKLOW | 47 | S995 677 | Kerry Foods (Shillelagh) | Well | SE 2 | 600.0 | Private |

# APPENDIX 1

## LIST OF GROUNDWATER SOURCES IN THE USER RELATED MONITORING NETWORK FOR WHICH DATA ON NITRATES ARE AVAILABLE (November 1996)

# APPENDIX 1

## LIST OF GROUNDWATER SOURCES IN THE USER RELATED MONITORING NETWORK FOR WHICH DATA ON NITRATES ARE AVAILABLE (November 1996)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| CARLOW | 1 | S713 620 | Bagenalstown WS | Spring | 165 |
| CARLOW | 4 | S728 555 | Ballinkillen WS | Bore | |
| CARLOW | 5 | S695 543 | Ballyellen GWS | Bore | 23 |
| CARLOW | 6 | S648 720 | Bilboa WS | Bore | |
| CARLOW | 7 | S642 762 | Carlow WS | Spring | 909 |
| CARLOW | 8 | S964 763 | Clonmore Housing | Bore | 10 |
| CARLOW | 24 | S673 747 | Ballinabrannagh GWS | Bore | 20 |
| CARLOW | 25 | S745 692 | Ballyloo | Bore | 21 |
| CARLOW | 27 | S656 654 | Old Leighlin | Bore | |
| CARLOW | 28 | S930 826 | Ticknock | Bore | |
| | | | | | |
| CAVAN | 1 | N719 967 | Bailieboro WS | Spring | 100 |
| CAVAN | 2 | H298 185 | Ballyconnell WS | Spring | 364 |
| CAVAN | 4 | H218 190 | Bawnboy WS | Bore | 45 |
| CAVAN | 5 | H072 370 | Blacklion old WS | Spring, bore | 54 |
| CAVAN | 9 | H180 282 | Swanlinbar WS | Spring | 182 |
| CAVAN | 65 | H600 142 | Cootehill Poultry | Bore | 100 |
| CAVAN | 71 | H310 069 | Killashandra Co-op | Bore | 1640 |
| CLARE | 2 | R585 714 | Broadford WS | Spring | |
| CLARE | 3 | R582 709 | Broadford WS | Spring | 82 |
| CLARE | 4 | M28 6003 | Carron WS | Spring | |
| CLARE | 7 | R406 886 | Crusheen WS | Bore | 91 |
| CLARE | 9 | R334 791 | Ennis WS (Drumcliff) | Springs | 5909 |
| CLARE | 10 | R569 932 | Flagmount WS | Well | 23 |
| CLARE | 11 | Q88 0595 | Kilkee WS | Bore | 23 |
| CLARE | 12 | R681 729 | Killaloe | Gallery, Spring | 280 |
| CLARE | 13 | R105 640 | Kilmihil WS | Bore | 89 |
| CLARE | 19 | R423 740 | Quin WS | Bore | 18 |
| CLARE | 20 | R412 746 | Quin WS | Bore | 36 |
| CLARE | 22 | R490 800 | Tulla | Bore | 164 |
| CLARE | 23 | R727 881 | Whitegate WS | Spring | 30 |
| CLARE | 27 | R136 986 | Lisdoonvarna | Spring | |
| CLARE | 29 | M219 062 | Ballyvaughan WSS | Bore | 230 |
| CLARE | 38 | R280 885 | Corofin Creamery | Well | 16 |
| CLARE | 43 | R232 588 | Kildysart Creamery | Well | 15 |
| CLARE | 45 | R113 640 | Kilmihil Creamery | Well | 8 |
| CLARE | 58 | R639 838 | Scarriff Creamery | Wells | 9 |
| | | | | | |
| CORK NTH | 1 | R393 141 | Allow RWS | Bore | 2000 |
| CORK NTH | 3 | R495 021 | Ballyclough RWS | Spring | 455 |
| CORK NTH | 4 | R150 140 | Ballydesmond WS | Bore | 130 |
| CORK NTH | 7 | W611 985 | Ballymagooly WS | Spring | 114 |
| CORK NTH | 10 | W566 932 | Balnamona-Mourne Abbey | Well | 10 |
| CORK NTH | 11 | W360 938 | Banteer WS | Spring, Bore | 240 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| CORK NTH | 13 | W611 885 | Barrack-Burnfoot WS | Bore | 55 |
| CORK NTH | 19 | W480 889 | Bweeng WS | Well, Spring. | 15 |
| CORK NTH | 20 | W179 871 | Caherbarragh GWS | Spring | 5 |
| CORK NTH | 21 | W517 897 | Carrigacleena WS | Bore | 15 |
| CORK NTH | 25 | R686 037 | Castletownroche RWS | Spring | 1455 |
| CORK NTH | 26 | R530 147 | Charleville RWS | Bores | 2500 |
| CORK NTH | 28 | W919 934 | Conna Village WS | Spring, Bore | |
| CORK NTH | 30 | W920 926 | Coone WS | Spring | 36 |
| CORK NTH | 31 | W440 950 | Cregan-Gortmore GWS | Spring | 41 |
| CORK NTH | 32 | W440 950 | Creggane WS | Spring | 130 |
| CORK NTH | 34 | R662 074 | Doneraile-Slanballymore (Buttevant-Doneraile RWS) | Spring | 3200 |
| CORK NTH | 35 | W508 940 | Dromahane WS | Spring | 500 |
| CORK NTH | 37 | R762 073 | Glanworth-Ballyenihan-Derryvillane | Spring | 841 |
| CORK NTH | 38 | R885 113 | Glenduff WS | Spring | |
| CORK NTH | 39 | W558 955 | Gortnagraigue WS | Bore | 30 |
| CORK NTH | 41 | R590 150 | Heatherside RWS | Spring | 364 |
| CORK NTH | 42 | W558 955 | Ketragh WS | Spring | 130 |
| CORK NTH | 44 | R694 140 | Kildorrery WS | Spring | 114 |
| CORK NTH | 45 | R723 109 | Kildorrery WS | Bore | 450 |
| CORK NTH | 46 | W649 982 | Killavullen WS | Bore | 360 |
| CORK NTH | 47 | W890 971 | Kilmagner WS | Bore | 10 |
| CORK NTH | 50 | R830 040 | Kilworth Village WS | Spring | 136 |
| CORK NTH | 51 | R198 039 | Kiskeam WS | Well | 37 |
| CORK NTH | 54 | ----- | Knockbrack-Burnfoot | Bore | 30 |
| CORK NTH | 56 | W190 980 | Knocknagree WS | Spring | 91 |
| CORK NTH | 58 | W409 922 | Lyre WS | Spring | 100 |
| CORK NTH | 62 | W260 924 | Millstreet WS | Well | 662 |
| CORK NTH | 63 | R829 095 | Mitchelstown old WS | Spring | 545 |
| CORK NTH | 66 | W559 917 | Monaparson WS | Bore | 10 |
| CORK NTH | 67 | W597 940 | Monee-Knockbrack WS | Bore | 45 |
| CORK NTH | 69 | R493 019 | Mountnorth-Ballyclogh WS | Spring | 1100 |
| CORK NTH | 70 | W428 909 | Nad WS | Well | 10 |
| CORK NTH | 71 | W585 990 | Olivers Cross WS | Bore | 200 |
| CORK NTH | 72 | W455 980 | Pallas GWS | Bore | 36 |
| CORK NTH | 73 | R603 969 | Rahan WS | Spring | 60 |
| CORK NTH | 75 | R230 160 | Rockchapel WS | Well | 150 |
| CORK NTH | 77 | W823 968 | Strawhall WS | Bore | |
| CORK NTH | 79 | R355 179 | Tullylease WS | Bore | 110 |
| CORK NTH | 81 | W782 842 | Watergrasshill WS | Spring | |
| CORK NTH | 82 | W778 983 | Fermoy UDC | Gallery | |
| CORK NTH | 101 | R813 133 | Galtee Food Products | Bores | 227 |
| CORK NTH | 135 | | Newmarket-Kanturk | Spring | |
| CORK NTH | 137 | W382 954 | Toreen (Banteer) WS | Spring | 160 |
| | | | | | |
| CORK STH | 1 | W444 776 | Aghabulloge WS | Bore | 38 |
| CORK STH | 4 | W841 820 | Ballincurrig-Top Cross-Lisgoold WS | Bores | 200 |
| CORK STH | 5 | W563 515 | Ballinadee WS | Bore | 14 |
| CORK STH | 6 | W368 815 | Ballinagree WS | Bore | 30 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| CORK STH | 7 | W592 463 | Ballinspittle WS | Gallery | 30 |
| CORK STH | 8 | W822 725 | Ballintobhar WS | Spring | 145 |
| CORK STH | 9 | X048 706 | Ballymacoda WS | Spring | 45 |
| CORK STH | 10 | W220 773 | Ballymakeera WS | Spring | 109 |
| CORK STH | 11 | W210 750 | Ballymakra-Coolea WS | Gallery | 350 |
| CORK STH | 13 | W661 537 | Belgooly WS | Spring | 20 |
| CORK STH | 15 | W675 819 | Carrignavar WS | Bore | 45 |
| CORK STH | 16 | W957 768 | Castlemartyr-Mogeely WS | Spring | 350 |
| CORK STH | 19 | W295 762 | Clondrohid WS | Gallery | 73 |
| CORK STH | 21 | W919 672 | Cloyne-Aghada WS | Bores | 1360 |
| CORK STH | 22 | W456 737 | Coachford WS | Bore | 122 |
| CORK STH | 23 | W696 791 | Coole-East WS | Spring | 30 |
| CORK STH | 24 | W436 660 | Crookstown WS | Bore | 145 |
| CORK STH | 25 | W945 801 | Dungourney WS | Bores | 36 |
| CORK STH | 26 | ----- | Enniskeane WS | Gallery | 136 |
| CORK STH | 27 | W590 460 | Garretstown WS | Bore | 204 |
| CORK STH | 28 | W720 887 | Glenville Ws | Bore | 55 |
| CORK STH | 29 | W579 844 | Grenagh WS | Bore | 147 |
| CORK STH | 30 | W222 655 | Inchigeela Ws | Gallery | 82 |
| CORK STH | 31 | W519 474 | Kilbrittain WS | Spring | 136 |
| CORK STH | 32 | W996 776 | Killeagh WS | Spring | 147 |
| CORK STH | 34 | W255 722 | Kilnamartyra | Bore | 41 |
| CORK STH | 39 | W328 792 | Macroom U.D. WS | Gallery | 1700 |
| CORK STH | 41 | W750 565 | Minane Bridge | Bore | 8 |
| CORK STH | 43 | W405 585 | Newcestown | Bore | 15 |
| CORK STH | 44 | W719 521 | Nohoval WS | Bore | 11 |
| CORK STH | 45 | W658 581 | Riverstick WS | Spring | 64 |
| CORK STH | 46 | W784 551 | Roberts Cove WS | Bore | 80 |
| CORK STH | 48 | W417 821 | Rylane WS | Bore | 90 |
| CORK STH | 50 | W627 772 | Stoneview WS | Bore | 27 |
| CORK STH | 52 | W698 777 | Whites Cross WS | Bore | 36 |
| CORK STH | 65 | W592 463 | Ballinspittle new | Gallery | |
| CORK STH | 66 | W803 731 | Carrigtwohill Industrial Estate | Bore | |
| | | | | | |
| CORK W | 6 | V818 380 | Kilcrohane WS | Bore | |
| CORK W | 9 | V853 310 | Toormore GWS | Bore | 9 |
| CORK W | 12 | W260 490 | Drinagh Co-op | Bore | 45 |
| | | | | | |
| DONEGAL | 1 | C296 102 | Ardagh WS | Spring | 13 |
| DONEGAL | 3 | ------- | Ballymagrorty GWS | Gallery | 120 |
| DONEGAL | 4 | C462 462 | Carndonagh WS | Bore | 1550 |
| DONEGAL | 5 | G580 782 | Carrick-Teelin WS | Spring | 241 |
| DONEGAL | 6 | C510 463 | Cashel-Glenealy WS | Spring | 40 |
| DONEGAL | 7 | C350 274 | Fahan WS | Spring | 45 |
| DONEGAL | 8 | G544 855 | Glencolumbkille WS | Spring | 135 |
| DONEGAL | 9 | C162 120 | Letterkenny WS | Spring | |
| DONEGAL | 10 | G520 818 | Malinmore-Malinbeg WS | Spring | |
| DONEGAL | 11 | C217 200 | Ramelton WS | Spring | 285 |
| DONEGAL | 12 | G674 974 | Rossbeg WS | Gallery | 110 |
| DONEGAL | 14 | C520 455 | Glenealy | Well | 200 |
| | | | | | |
| DUBLIN | 2 | O033 217 | Brittas | Well | |
| DUBLIN | 3 | O191 215 | Glencullen | Bore | |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| | | | | | |
| GALWAY | 1 | M541 402 | Abbert GWS | Bore | 47 |
| GALWAY | 2 | M779 381 | Ahascragh WS | Spring | 655 |
| GALWAY | 3 | M398 405 | Anbally-Cummer GWS | Bore | 13 |
| GALWAY | 4 | M506 272 | Athenry | Spring, Bore | 800 |
| GALWAY | 5 | M770 267 | Aughrim-Ballinasloe GWS | Well | 20 |
| GALWAY | 6 | M745 343 | Ballinabanaba GWS | Spring | 50 |
| GALWAY | 8 | M700 491 | Ballinlass GWS | Spring | 85 |
| GALWAY | 9 | M761 522 | Ballygar WS | Spring | 235 |
| GALWAY | 10 | M679 712 | Ballymoe WS | Spring | 327 |
| GALWAY | 11 | M329 418 | Ballyroebugbeg GWS | Bore | 53 |
| GALWAY | 12 | M535 570 | Brackloon GWS | Spring | 111 |
| GALWAY | 14 | M337 424 | Cahermorris GWS | Bore | 22 |
| GALWAY | 15 | M404 300 | Carnmore GWS | Bore | 46 |
| GALWAY | 16 | M394 382 | Carraghy-Claregalway GWS | Bore | 40 |
| GALWAY | 17 | M380 345 | Claregalway GWS | Spring | 114 |
| GALWAY | 18 | M394 493 | Claretuam GWS | Bore | 9 |
| GALWAY | 20 | M750 260 | Cloghagalla-Cappataggle GWS | Spring | 46 |
| GALWAY | 21 | M729 390 | Clonbrock-Pallas GWS | Bore | 50 |
| GALWAY | 22 | | Clonbur WS | Spring | 295 |
| GALWAY | 23 | M965 210 | Clonfert GWS | Bore | 18 |
| GALWAY | 24 | M715 387 | Cloonatleva GWS | Spring | 123 |
| GALWAY | 25 | M409 514 | Cloonfush GWS | Bore | 7 |
| GALWAY | 26 | M757 340 | Cloonigney GWS | Spring | 106 |
| GALWAY | 29 | M723 303 | Coraneena-Kilconnell GWS | Spring | 46 |
| GALWAY | 30 | M404 390 | Corbally GWS | Spring | 64 |
| GALWAY | 31 | M437 431 | Corofin-Ballintubber GWS | Bore | 114 |
| GALWAY | 32 | M497 423 | Culliagh South GWS | Bore | 68 |
| GALWAY | 33 | M398 441 | Cummer GWS | Bore | 21 |
| GALWAY | 34 | M420 448 | Curry GWS | Bore | 73 |
| GALWAY | 35 | M740 360 | Doon GWS | Bore | 36 |
| GALWAY | 36 | M332 375 | Drumgriffin-Tonnegurrane GWS | Bore | 37 |
| GALWAY | 37 | M545 660 | Dunmore WS | Spring | 250 |
| GALWAY | 39 | M990 165 | Esker-Banagher GWS | Bore | 59 |
| GALWAY | 40 | M914 167 | Eyrecourt WS | Spring | 164 |
| GALWAY | 41 | M895 205 | Eyrecourt-Laurencetwn GWS | Spring | 454 |
| GALWAY | 43 | M513 529 | Gallagh GWS | Bore | 523 |
| GALWAY | 44 | M456 649 | Garratrauns GWS | Bore | 25 |
| GALWAY | 45 | M770 280 | Garymore GWS | Spring | 31 |
| GALWAY | 46 | M623 647 | Glenamaddy WS | Spring | 272 |
| GALWAY | 47 | M475 454 | Gortbeg-Ballinstack GWS | Bore | 73 |
| GALWAY | 49 | M466 636 | Gortnagoyne, Dunmore GWS | Spring | 46 |
| GALWAY | 50 | M433 339 | Grange, Claregalway GWS | Bore | 46 |
| GALWAY | 51 | L987 023 | Inisheer | Springs | 68 |
| GALWAY | 52 | L937 051 | Inishmann, Aran Islands | Seepage | |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| GALWAY | 53 | L863 108 | Inishmore RWS | Spring | |
| GALWAY | 55 | M412 539 | Kilbennon GWS | Spring | 436 |
| GALWAY | 56 | M326 586 | Kilconly, Tuam GWS | Spring | 468 |
| GALWAY | 57 | M733 316 | Kilconnel WS | Spring | 127 |
| GALWAY | 58 | M385 429 | Kilcurrivard-Cummer GWS | Bore | 46 |
| GALWAY | 59 | M644 539 | Kilkerrin-Moylough RWS | Spring | 1094 |
| GALWAY | 60 | M714 461 | Killasolan GWS | Spring | 64 |
| GALWAY | 61 | M543 683 | Kilteyna-Dunmore GWS | Spring | 39 |
| GALWAY | 62 | M378 101 | Kinvara RWS | Bore | 306 |
| GALWAY | 63 | M747 042 | Kylemore Abbey GWS | Spring | 36 |
| GALWAY | 65 | M409 360 | Lackaghmore GWS | Bore | 91 |
| GALWAY | 67 | M388 610 | Lisanancy-Liskeavey GWS | Bore | 59 |
| GALWAY | 69 | M620 415 | Menlough GWS | Bore | 82 |
| GALWAY | 70 | M540 447 | Mid-Galway RWS | Spring | 3000 |
| GALWAY | 71 | M423 603 | Milltown GWS | Spring | 59 |
| GALWAY | 72 | M533 364 | Monivea GWS | Bore | 91 |
| GALWAY | 73 | M665 450 | Mountbellew WS | Spring | 281 |
| GALWAY | 74 | M685 024 | Moyglass GWS | Bore | 90 |
| GALWAY | 75 | M372 361 | Mullaghcuttra GWS | Spring | 204 |
| GALWAY | 76 | M750 260 | Newcastle-Aughrine GWS | Spring | 33 |
| GALWAY | 79 | M329 588 | Ratesh-Kilconly GWS | Spring | 24 |
| GALWAY | 80 | M395 462 | Rusheens-Tuam GWS | Bore | 109 |
| GALWAY | 81 | M526 377 | Ryehill Monivea GWS | Bore | 14 |
| GALWAY | 82 | M370 385 | Slievetinn-Aughcleggan GWS | Bore | 29 |
| GALWAY | 83 | M410 018 | Tirneevin GWS | Bore | 41 |
| GALWAY | 84 | M690 653 | Toberroe GWS | Spring | 45 |
| GALWAY | 85 | M471 526 | Tuam WS | Spring | 2273 |
| GALWAY | 86 | M644 701 | Williamstown WS | Spring | 364 |
| GALWAY | 87 | R7109 63 | Woodford WS | Spring | 136 |
| GALWAY | 89 | M547 451 | Barnaderg GWS | Spring | 413 |
| GALWAY | 92 | M674 279 | New Inn GWS | Spring | 80 |
| GALWAY | 93 | M228 474 | Ower GWS | Bore | |
| GALWAY | 98 | M682 247 | Aughrim GWS | Spring | 24 |
| GALWAY | 99 | M467 089 | Ballinduff -Fullura GWS | Bore | 41 |
| GALWAY | 104 | M426 195 | Clarinbridge | Spring | 220 |
| GALWAY | 108 | M434 078 | Crannagh-Gort GWS | Bore | 37 |
| GALWAY | 113 | M571 131 | Kilchrest GWS | Bore | 43 |
| GALWAY | 114 | M388 060 | Killina-Kinvarra GWS | Bore | 29 |
| GALWAY | 118 | M378 101 | Kinvarra WS | Bore | 306 |
| GALWAY | 125 | M404 249 | Oranmore WS | Spring | 400 |
| GALWAY | 126 | M856 048 | Portumna Mart | Bore | 18 |
| GALWAY | 128 | M332 290 | Roadstone Ltd | Bore | 227 |
| | | | | | |
| KERRY | 1 | Q574 037 | Anascaul | Springs | 200 |
| KERRY | 2 | Q782 217 | Ardfert | Well | 2270 |
| KERRY | 3 | Q433 102 | Ballinevenooragh WS | Well | 30 |
| KERRY | 5 | Q425 078 | Ballinloghig WS | Well | 27 |
| KERRY | 6 | Q906 419 | Ballybunnion WS | Spring | |
| KERRY | 7 | Q885 349 | Ballyduff WS | Well | 227 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| KERRY | 8 | Q360 048 | Ballyferriter | Bore, Well, Spring | 409 |
| KERRY | 9 | Q399 056 | Ballyferriter RWS | Spring | 300 |
| KERRY | 11 | Q356 033 | Ballyferriter RWS | Well | 300 |
| KERRY | 12 | R004 444 | Ballylongford | Bore | 34 |
| KERRY | 13 | Q964 438 | Ballylongford WS | Bore | 34 |
| KERRY | 14 | Q450 040 | Ballymore WS | Spring | 365 |
| KERRY | 15 | Q525 149 | Brandon | Spring | 113 |
| KERRY | 17 | Q525 132 | Cappagh | Wells | 45 |
| KERRY | 19 | Q852 322 | Causeway WS | Spring | 45 |
| KERRY | 20 | Q510 113 | Cloghane | Wells | 40 |
| KERRY | 23 | Q460 030 | Dingle WS | Well | 1136 |
| KERRY | 30 | R055 305 | Duagh | Gallery | 204 |
| KERRY | 31 | Q315 005 | Dunquin | Spring | 114 |
| KERRY | 32 | V346 980 | Fahan WS | Spring | 32 |
| KERRY | 34 | Q730 160 | Fenit | Wells | 360 |
| KERRY | 35 | Q430 108 | Feoghanagh-Brandon Creek WS | Spring | 150 |
| KERRY | 38 | V333 977 | Glenfahan WS | Spring | 6 |
| KERRY | 40 | Q323 028 | Graigue-Clogher WS | Spring | 36 |
| KERRY | 42 | W029 723 | Kilgarvan WS | Well | 91 |
| KERRY | 43 | Q412 036 | Knockavrogeen WS | Spring | 45 |
| KERRY | 45 | R043 211 | Knocknagashel WS | Spring | |
| KERRY | 46 | W000 898 | Lissivigeen GWS | Well | 36 |
| KERRY | 47 | Q906 267 | Lixnaw WS | Spring | 910 |
| KERRY | 49 | Q8100 08 | Milltown WS | Spring | 290 |
| KERRY | 50 | Q540 035 | Minard RWS | Spring | 318 |
| KERRY | 52 | Q438092 | Murreagh | Wells, Spring | 360 |
| KERRY | 53 | W161 885 | Rathmore | Well | 300 |
| KERRY | 54 | W030 967 | Roormore GWS | Well | 9 |
| KERRY | 55 | R003 004 | Scartaglin | Spring | 50 |
| KERRY | 58 | R075 464 | Tarbert WS | Spring | 182 |
| KERRY | 59 | Q334 032 | Teeravane WS | Spring | 36 |
| KERRY | 61 | V996924 | Tullig GWS | Bore | 23 |
| KERRY | 62 | V405 770 | Valencia Island WS | Spring | 30 |
| KERRY | 63 | R140 185 | Brosna WS | Well Spring. | 136 |
| KERRY | 66 | Q768 265 | Ballyheigue | Spring | |
| KERRY | 74 | V468 766 | Caherciveen Creamery | Spring | 90 |
| KERRY | 75 | Q836 028 | Castlemaine Creamery | Well | 91 |
| KERRY | 83 | V908 710 | Kenmare Creamery | Well | 55 |
| KERRY | 105 | Q982 230 | Lyrecrompane Creamery | Deep Well | 27 |
| | | | | | |
| KILDARE | 1 | S680 945 | Athy Town WS | Bore | 650 |
| KILDARE | 3 | S717 905 | Ballyroe GWS | Well | 22 |
| KILDARE | 5 | N932 186 | Bullock Park | bore | 32 |
| KILDARE | 6 | S805 860 | Castledermot WS | Bore | 430 |
| KILDARE | 7 | S625 950 | Castlemitchell GWS | Bore | 18 |
| KILDARE | 8 | N696 407 | Clonuff Housing WS | Bore | 12 |
| KILDARE | 9 | N662 000 | Kilberry Area WS | Bore | 12 |
| KILDARE | 11 | N663 061 | Kildangan GWS | Bore | 28 |
| KILDARE | 13 | S737 986 | Kilmeade Housing WS | Bore | 20 |
| KILDARE | 14 | N642 125 | Monasterevin WS | Spring | |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| KILDARE | 15 | N647 125 | Monasterevin WS | Bore | 645 |
| KILDARE | 16 | N733 000 | Ardellis | Bore | |
| KILDARE | 17 | S005 900 | Belview | Bore | |
| KILDARE | 18 | S640 955 | Churchtown | Bore | 120 |
| KILDARE | 19 | S822 850 | Graney-Castledermot | Spring | |
| KILDARE | 20 | N635 064 | Lughill-Monasterevin | 3 Springs | |
| KILDARE | 21 | N973 169 | Red Bog Blessington | Bore | |
| KILDARE | 22 | N819 394 | Newtown-Kilcock | Bore | 17 |
| KILDARE | 37 | ----- | Athy Belview | Bore | |
| KILDARE | 38 | ----- | Bawnogues | Bore | |
| KILDARE | 39 | ----- | Bullock Park Naas | Bore | |
| KILDARE | 40 | N655 390 | Clogherinkoe | Bore | 11 |
| KILDARE | 41 | N889 033 | Gormanstown | Bore | |
| KILDARE | 44 | S680 942 | Infiltration Gallery, Athy | Gallery | |
| KILDARE | 45 | N774 413 | Johnstownbridge | Bore | 50 |
| KILDARE | 46 | S658 993 | Kilberry Area WS | Bore | 400 |
| KILDARE | 47 | S740 898 | Kilkea | Bore | |
| KILDARE | 48 | N988 205 | Kilteel | Bore | |
| KILDARE | 49 | ------ | Lipstown Narraghmore | Bore | |
| KILDARE | 51 | S657 933 | Quarry | Bore | |
| KILDARE | 53 | S679 944 | Townsparks Bore, Athy | Bore | |
| KILDARE | 54 | N737 115 | Tully | Springs | |
| KILDARE | 55 | N973 179 | Wolfstown | Bore | |
| | | | | | |
| KILKENNY | 6 | S445 710 | Ballyragget WS | Gallery | 590 |
| KILKENNY | 8 | S546 444 | Bennetsbridge WS | Gallery | 2045 |
| KILKENNY | 10 | S407 442 | Callan WS | Spring | 840 |
| KILKENNY | 14 | S547 760 | Clogh/Castlecomer RWS | Gallery | 820 |
| KILKENNY | 18 | S660 230 | Glenmore WS | Spring | |
| KILKENNY | 19 | S660 572 | Gowran-Goresbridge-Paulstown | Spring | 795 |
| KILKENNY | 20 | S702 414 | Graiguenamanagh RWS | Spring | 570 |
| KILKENNY | 24 | S507 568 | Kilkenny WS | Spring | 342 |
| KILKENNY | 29 | S476 256 | Piltown-Fiddown WS | Spring | 455 |
| KILKENNY | 32 | S589 415 | Thomastown WS | Gallery | |
| KILKENNY | 34 | S300 635 | Urlingford-Johnstwn | Spring | |
| KILKENNY | 90 | S520 738 | Castlecomer (old) | | |
| | | | | | |
| LAOIS | 1 | S452 841 | Abbeyleix WS | Spring | 227 |
| LAOIS | 4 | S655 834 | Arless | Spring | |
| LAOIS | 7 | S430 789 | Ballinakill WS | Bore | 210 |
| LAOIS | 9 | S472 865 | Ballyroan WS | Spring | 475 |
| LAOIS | 10 | S243 879 | Borris-in-OssoryWS | Well | 77 |
| LAOIS | 12 | N309 094 | Clonaslee WS | Spring | 46 |
| LAOIS | 13 | S678 836 | Coolenaugh | Bore | |
| LAOIS | 14 | S403 775 | Durrow | Bore | 530 |
| LAOIS | 16 | N526 058 | Emo WS | Bores | 270 |
| LAOIS | 19 | N452 059 | Mountmellick | Bore | |
| LAOIS | 20 | S715 772 | Oakley | Bore | |
| LAOIS | 21 | N502 007 | Portlaois | Bores | |
| LAOIS | 25 | S303 777 | Rathdowney | Spring | |
| LAOIS | 26 | N400 082 | Rosenallis | Bore | |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| LAOIS | 28 | S564 824 | Swan-Newtown-Doonane | Bore | 520 |
| LAOIS | 29 | S557 904 | Timahoe-Cremorgan | Spring | 250 |
| LAOIS | 30 | N614 005 | Vicarstown | Bore | |
| LAOIS | 33 | N573 085 | Killinard GWS | Bore | |
| LAOIS | 48 | S585 882 | Luggacurran GWS. | Spring | 123 |
| | | | | | |
| LEITRIM | 5 | H113 099 | Ballinamore WS | Spring | 455 |
| LEITRIM | 19 | G997 122 | Drumshanbo WS | Spring | 164 |
| LEITRIM | 21 | G781 379 | Fivemilebourne WS | Spring | 135 |
| LEITRIM | 26 | G941 438 | Kiltyclogher WS | Spring | 90 |
| LEITRIM | 27 | G843 522 | Kinlough-Tullaghan WS | Spring | 380 |
| LEITRIM | 32 | G833 384 | Manorhamilton WS | Spring | 680 |
| LEITRIM | 36 | G925 467 | Rossinver WS | Spring | 60 |
| | | | | | |
| LIMERICK | 1 | R273 398 | Ardagh WS | Well | 273 |
| LIMERICK | 2 | R558 340 | Athlacca North GWS | Well | 18 |
| LIMERICK | 4 | R418 365 | Ballingarry WS | Well | 318 |
| LIMERICK | 5 | R218 368 | Ballinloughane GWS | Well | 5 |
| LIMERICK | 6 | R718 268 | Ballinvreena GWS | Bore | 129 |
| LIMERICK | 7 | R472 280 | Ballyagran WS | Bore | 218 |
| LIMERICK | 8 | R651 477 | Ballybricken WS | Bore | 44 |
| LIMERICK | 9 | R182 455 | Ballyhahill WS | Well | |
| LIMERICK | 10 | R188 457 | Ballyhahill WS | Bore | 46 |
| LIMERICK | 11 | R780 238 | Ballylanders WS | Bore | |
| LIMERICK | 12 | R782 228 | Ballylanders WS | Bore | 169 |
| LIMERICK | 13 | R683 198 | Ballyorgan GWS | Bore | 33 |
| LIMERICK | 16 | R223 308 | Barnagh GWS | Well | 22 |
| LIMERICK | 19 | R334 217 | Broadford WS | Bore | 182 |
| LIMERICK | 20 | R626 371 | Bruff WS | Bore | 427 |
| LIMERICK | 21 | R549 305 | Bruree WS | Spring | 196 |
| LIMERICK | 24 | R510 421 | Caherass GWS | Well | 6 |
| LIMERICK | 25 | R680 500 | Caherconlish WS | Well | 436 |
| LIMERICK | 27 | R382 456 | Cappagh GWS | Bore | |
| LIMERICK | 28 | R393 463 | Cappagh GWS | Bore | 16 |
| LIMERICK | 30 | R624 444 | Carnane GWS | Well | 208 |
| LIMERICK | 32 | R207 378 | Carrigkerry GWS | Well | 55 |
| LIMERICK | 36 | R284 414 | Coolcappagh GWS | Bore | 88 |
| LIMERICK | 38 | R299 460 | Creeves-Shanagolden GWS | Well | 18 |
| LIMERICK | 40 | R406 429 | Croagh GWS | Bore | 8 |
| LIMERICK | 41 | R508 413 | Croom WS | Bore | 409 |
| LIMERICK | 42 | R824 504 | Doon WS | Well | |
| LIMERICK | 43 | R840 509 | Doon WS | Bore | 546 |
| LIMERICK | 46 | R593 445 | Fedamore | Well | 68 |
| LIMERICK | 47 | R796 280 | Galbally WS | Spring | 182 |
| LIMERICK | 48 | R744 554 | Glenstal WS | Well | 216 |
| LIMERICK | 49 | R130 465 | Glin WS | Bore | |
| LIMERICK | 55 | R685 409 | Herbertstown GWS | Bore | 318 |
| LIMERICK | 56 | R706 363 | Hospital WS | Bore | |
| LIMERICK | 59 | R606 270 | Jamestown | Bore, Spring | 564 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| LIMERICK | 61 | R862 155 | Kilbeheny | Well | 41 |
| LIMERICK | 64 | R399 513 | Kilcornan GWS | Bore | 14 |
| LIMERICK | 65 | R268 248 | Kileedy GWS | Well | 111 |
| LIMERICK | 70 | R274 246 | Killeedy GWS | Well | 97 |
| LIMERICK | 72 | R618 268 | Kilmallock WS | Bore | |
| LIMERICK | 75 | R377 297 | Kilmeedy GWS | Bore | 70 |
| LIMERICK | 76 | R728 411 | Kilteely WS | Bore | |
| LIMERICK | 78 | R720 311 | Knocklong WS | Bore | |
| LIMERICK | 80 | R192 497 | Loghill WS | Bore | 37 |
| LIMERICK | 82 | R727 563 | Moroe WS | Wells | 650 |
| LIMERICK | 84 | R166 191 | Mountcollins | Bore | 118 |
| LIMERICK | 85 | R665 665 | Mountepelier WS | Bore | 68 |
| LIMERICK | 86 | R317 452 | Newbridge-Cooltomine GWS | Well | 40 |
| LIMERICK | 87 | R498 570 | Newtown;Clarina | Well | 65 |
| LIMERICK | 88 | R815 420 | Oola WS | Well | 337 |
| LIMERICK | 89 | R764 440 | Pallasgreen WS | Well | 382 |
| LIMERICK | 96 | R174 362 | Templeathea GWS | Bore | 10 |
| LIMERICK | 97 | R218 292 | Templeglantine GWS | Bore | 14 |
| LIMERICK | 98 | R217 243 | Toornafulla | Bore | 19 |
| LIMERICK | 101 | R126 351 | Athea | Bore<br>Spring | 182 |
| LIMERICK | 102 | R685 205 | Ballinlyna | Bore | 129 |
| LIMERICK | 103 | R774 286 | Ballynamona | Well | 30 |
| LIMERICK | 104 | R773 514 | Cappamore | Spring | |
| LIMERICK | 107 | R477 368 | Kilfinny GWS | Spring | 160 |
| LIMERICK | 109 | R650 405 | Lough Gur GWS | Bore | 205 |
| LIMERICK | 111 | R318 280 | South West RWS | Spring<br>Well | 1250 |
| | | | | | |
| LONGFORD | 12 | N140 625 | Keenagh WS | Spring | 520 |
| LONGFORD | 13 | N008 695 | Lanesboro RWS | Bore | 2000 |
| LONGFORD | 14 | N035 584 | Newtowncashel WS | Spring | 436 |
| | | | | | |
| LOUTH | 2 | O070 823 | Brownstown GWS | Bore | 25 |
| LOUTH | 3 | J179 110 | Carlingford | Spring | 200 |
| LOUTH | 4 | ----- | Clogherhead | Bore | 800 |
| LOUTH | 5 | O003 815 | Collon WS | Bore | 660 |
| LOUTH | 6 | J205 070 | Cooley RWS | Bore | 875 |
| LOUTH | 7 | O052 781 | Drybridge GWS | Bore | 100 |
| LOUTH | 8 | O097 870 | Grangebellew GWS | Bore | 75 |
| LOUTH | 9 | O065 925 | Greenmount | Bore | |
| LOUTH | 10 | J212 081 | Greenore WS | Spring | 188 |
| LOUTH | 11 | J008 083 | Kilcurley GWS | Bore | 134 |
| LOUTH | 12 | O069 788 | Killineer GWS | Bore | 45 |
| LOUTH | 14 | J009 098 | Rathmore GWS | Bore | 200 |
| LOUTH | 15 | J090 128 | Ravensdale WS | Spring | 4 |
| LOUTH | 16 | J093 119 | Ravensdale WS | Spring | 16 |
| LOUTH | 18 | O041 837 | Tenure GWS | Bore | 70 |
| LOUTH | 20 | O024 781 | Tullyallen GWS | Bore | 500 |
| LOUTH | 49 | O011 768 | Sheepgrange | Bore | |
| LOUTH | 57 | N957 903 | Ardee | Bore | |
| | | | | | |
| MAYO | 1 | M258 847 | Balla WS | Well | 180 |
| MAYO | 2 | M363 696 | Ballindine | Spring | 450 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| MAYO | 3 | G087 390 | Ballycastle | Spring | 220 |
| MAYO | 4 | M492 791 | Ballyhaunis WS | Spring | 718 |
| MAYO | 5 | M365 799 | Bllymagibbon GWS | Well | 40 |
| MAYO | 6 | M336 953 | Bohola GWS | Spring | 200 |
| MAYO | 7 | M170 993 | Castlebar WS | Spring | 436 |
| MAYO | 8 | G484 005 | Charlestown WS | Well | 300 |
| MAYO | 9 | M365 696 | Claremorris WS | Well | |
| MAYO | 11 | M331 611 | Crossboyne GWS | Spring | 120 |
| MAYO | 12 | G101 168 | Crossmolina WS | Well | 900 |
| MAYO | 15 | M484 977 | Hagfield GWS | Well | 30 |
| MAYO | 16 | M442 923 | Kilkelly WS | Spring | 250 |
| MAYO | 19 | M262 601 | Kilmaine WS | Well | 650 |
| MAYO | 20 | M398 834 | Knock WS | Well | |
| MAYO | 21 | M268 784 | Mayo Abbey GWS | Well | |
| MAYO | 22 | M308 684 | Purraunes GWS | Well | 12 |
| MAYO | 23 | G532 022 | Rooskey GWS | Well | 160 |
| MAYO | 24 | M385 980 | Swinford WS | Spring | 850 |
| MAYO | 26 | M470 864 | Treen-Aughmore GWS | Well | 400 |
| MAYO | 30 | M442 923 | Woodfield GWS | Well | 100 |
| MAYO | 32 | M290 681 | Lisatava GWS | Spring | 100 |
| MAYO | 33 | G250 196 | Ballina Milk Co | Well | 30 |
| MAYO | 35 | F684 328 | Belmullet old WS | Well | |
| MAYO | 39 | F741 188 | Dooyark GWS | Well | 20 |
| MAYO | 40 | L790 806 | Louisburg WS | Well | |
| MAYO | 43 | F825 390 | Ross Port GWS | Well | 55 |
| | | | | | |
| MEATH | 2 | N720 636 | Athboy | Bore | |
| MEATH | 5 | N694 561 | Ballivor | Gallery | 180 |
| MEATH | 9 | N850 820 | Castletown Housing | Bore | 23 |
| MEATH | 10 | O015 426 | Dunboyne | Bore<br>Gallery | 500 |
| MEATH | 12 | N774 413 | Enfield | Bore | 240 |
| MEATH | 15 | N791 890 | Kilmainhamwood GS | Bore | 54 |
| MEATH | 16 | N887 573 | Kilmessan Housing | Bore | 7 |
| MEATH | 19 | N733 828 | Moynalty | Bore | 100 |
| MEATH | 20 | N828 861 | Nobber | Bore | 100 |
| MEATH | 23 | N962 737 | Slane | Bore | 535 |
| MEATH | 24 | N841 484 | Summerhill | Bore | 130 |
| MEATH | 25 | N827 559 | Trim WS | Dug well | 223 |
| MEATH | 75 | N553 803 | Oldcastle Creamery | Bore | 91 |
| | | | | | |
| MONAGHAN | 1 | H833 052 | Carrickmacross WS | Bore | 1590 |
| MONAGHAN | 2 | H808 162 | Castleblayney WS | Well | 563 |
| MONAGHAN | 3 | H751 304 | Clontibret WS | Well | 23 |
| MONAGHAN | 6 | H726 360 | Killyniel WS | Bore | 18 |
| MONAGHAN | 8 | H679 346 | MonaghanTown WS(E) | Bore | |
| MONAGHAN | 10 | H589 307 | Smithborough WS | Bore | 330 |
| MONAGHAN | 11 | H577 407 | Tydnavet GWS | Bore | 545 |
| MONAGHAN | 51 | H579 295 | Smithboro WS | Bore | 130 |
| | | | | | |
| OFFALY | 1 | N447 220 | Ballinagar GWS | Spring | 360 |
| OFFALY | 2 | N204 148 | Ballyboy GWS | Spring | 50 |
| OFFALY | 3 | N029 140 | Banagher-Lusmagh WS | Bore | 320 |
| OFFALY | 4 | S169 970 | Clareen GWS | Spring | 380 |
| OFFALY | 5 | N074 197 | Cloghan WS | Bore | 170 |
| OFFALY | 6 | N604 237 | Clonbulloge WS | Bore | 110 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| OFFALY | 7 | N377 205 | Coneygowan GWS | Bore | 600 |
| OFFALY | 8 | S107 958 | Coolderry WS | Bore | 8 |
| OFFALY | 9 | N468 277 | Daingean WS | Spring | 420 |
| OFFALY | 10 | S062 848 | Dunkerrin WS | Springs | 880 |
| OFFALY | 11 | N118 233 | Ferbane-Belmont WS | Bore | 295 |
| OFFALY | 13 | N450 215 | Geashill WS | Spring | 230 |
| OFFALY | 14 | N184 142 | Kilcormac WS | Spring | 350 |
| OFFALY | 16 | N393 216 | Meelaghans GWS | Spring | 100 |
| OFFALY | 17 | S041 825 | Moneygall WS | Spring | 200 |
| OFFALY | 18 | N253 155 | Mountbolus WS | Well | 30 |
| OFFALY | 19 | N274 266 | Rahan WS | Bore, Spring | 1475 |
| OFFALY | 21 | N267 233 | Rahan WS | Spring | 1475 |
| OFFALY | 23 | N516 317 | Rhode RWS | Spring | 2520 |
| OFFALY | 24 | M974 256 | Shannonbridge WS | Bore | 67 |
| OFFALY | 25 | N227 382 | Tober GWS | Spring | 327 |
| OFFALY | 26 | N338 285 | Tullamore UDC WS | Bore | 410 |
| OFFALY | 27 | N522 211 | Walsh Island WS | Spring, Bore | 410 |
| OFFALY | 28 | N309 094 | Clonaslee | Bore | 2072 |
| OFFALY | 29 | N645 335 | Edenderry | Bore | 450 |
| OFFALY | 48 | N624 307 | Ballyfore-Ballykillen | Bores | 70 |
| OFFALY | 49 | N178 297 | Boher | Well | |
| OFFALY | 50 | N652 182 | Bracknagh | Well | 200 |
| OFFALY | 51 | N319 315 | Durrow | Bore | 5 |
| | | | | | |
| ROSCOMMON | 2 | M839 815 | Ardkeenagh GWS | Spring | 45 |
| ROSCOMMON | 3 | G924 140 | Arigna WS | Spring | 118 |
| ROSCOMMON | 4 | M879 621 | Athleague RWS | Spring | 4744 |
| ROSCOMMON | 5 | M830 577 | Athleague WS | Bore | 59 |
| ROSCOMMON | 6 | M802 943 | Ballinameen GWS | Bore | 14 |
| ROSCOMMON | 7 | G861 131 | Ballyfarnan WS | Spring | 182 |
| ROSCOMMON | 9 | M447 220 | Bellanagara WS | Spring | 3400 |
| ROSCOMMON | 11 | G830 040 | Boyle | springs | 2600 |
| ROSCOMMON | 12 | M800 760 | Caran-Castleplunkett GWS | Bore | 8 |
| ROSCOMMON | 13 | M738 726 | Carane GWS | Spring | 55 |
| ROSCOMMON | 14 | M879 751 | Carroward GWS | Bore | |
| ROSCOMMON | 16 | M700 795 | Castlerea WS | Spring | 1600 |
| ROSCOMMON | 17 | M690 790 | Castlerea RWS | Spring | 2545 |
| ROSCOMMON | 18 | M830 608 | Castlestrange GWS | Bore | 21 |
| ROSCOMMON | 19 | M675 952 | Cloonmagunaun | Spring | 1100 |
| ROSCOMMON | 20 | M851 840 | Cloonyquin GWS | Spring | 68 |
| ROSCOMMON | 21 | M853 525 | Coolderry GWS | Bore | 6 |
| ROSCOMMON | 22 | M738 726 | Corrastoona GWS | Spring | 11 |
| ROSCOMMON | 23 | M905 897 | Creeve Hillstreet GWS | Spring | 261 |
| ROSCOMMON | 24 | M791 666 | Dunamon GWS | Spring | 41 |
| ROSCOMMON | 25 | M743 905 | Frenchpark WS | Spring | 120 |
| ROSCOMMON | 26 | M846 760 | Grange Lower GWS | Spring | 41 |
| ROSCOMMON | 27 | M934 597 | Keadew WS | Spring | 159 |
| ROSCOMMON | 29 | M934 597 | Knockcroghery RWS | Spring | 760 |
| ROSCOMMON | 30 | M964 551 | Lecarrow | Spring | 675 |
| ROSCOMMON | 32 | M821 524 | Mount Talbot RWS | Spring | 2345 |
| ROSCOMMON | 33 | M819 810 | Ogulla GWS | Spring | 50 |
| ROSCOMMON | 34 | N040 350 | Oldtwon WS | Bore | 8 |
| ROSCOMMON | 35 | M909 515 | Rahara GWS | Spring | 19 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| ROSCOMMON | 36 | M738 726 | Rathcarren GWS | Spring | 61 |
| ROSCOMMON | 37 | M887 721 | Rathmore GWS | Spring | 100 |
| ROSCOMMON | 38 | N050 869 | Roosky WS | Bore | 70 |
| ROSCOMMON | 39 | M818 678 | Roscommon WS | Spring | 2045 |
| ROSCOMMON | 41 | G893 161 | Rover-Arigna WS | Spring | 36 |
| ROSCOMMON | 42 | M887 406 | South Roscommon RWS | Spring | 4275 |
| ROSCOMMON | 43 | M927 800 | Strokestown WS | Spring | 409 |
| ROSCOMMON | 46 | M815 705 | Ballymacurley GWS | Spring | 129 |
| ROSCOMMON | 47 | M576 974 | Brusna GWS | Springs | 126 |
| ROSCOMMON | 49 | M773 810 | Carnakit GWS | Bore | 4 |
| ROSCOMMON | 50 | M938 778 | Carniska GWS | Bore | 34 |
| ROSCOMMON | 51 | M853 476 | Carrowkeel-Dysart GWS | Bore | 42 |
| ROSCOMMON | 53 | M992 908 | Clooncommon GWS | Bore | 6 |
| ROSCOMMON | 55 | M827 997 | Croghan GWS | Spring | 223 |
| ROSCOMMON | 59 | M877 687 | Derrane-Cooteige GWS | Spring | 95 |
| ROSCOMMON | 60 | G563 018 | Derrynacartha GWS | Spring | 270 |
| ROSCOMMON | 62 | M804 679 | Emlaghmore-Donamon GWS | Spring | 10 |
| ROSCOMMON | 65 | M900 697 | Hollywell GWS | Spring | 96 |
| ROSCOMMON | 66 | M855 687 | Mullymucks GWS | Bore | 34 |
| ROSCOMMON | 67 | M859 823 | Rathcroghan GWS | Bore | 350 |
| ROSCOMMON | 68 | M791 916 | Tartan GWS | Spring | 52 |
| ROSCOMMON | 69 | M820 585 | Toberavaddy GWS | Bore | 10 |
| ROSCOMMON | 74 | ----- | Streamstown | Well | |
| | | | | | |
| SLIGO | 3 | G684 444 | Benbulben GWS | Spring | 27 |
| SLIGO | 5 | G775 378 | Calry GWS | Spring | 73 |
| SLIGO | 9 | G437 381 | Dromore West GWS | Well | 26 |
| SLIGO | 10 | G706 431 | Drum East GWS | Spring | 168 |
| SLIGO | 11 | G352 313 | Enniscrone-Easky | Spring | |
| SLIGO | 12 | G355 291 | Enscrone-Easky WS | Spring | 500 |
| SLIGO | 14 | G647 037 | Gurteen WS | Spring | 200 |
| SLIGO | 15 | G770 155 | Riverstown WS | Well | 270 |
| SLIGO | 16 | G698 395 | Rosses Point WS | Spring | 520 |
| SLIGO | 17 | G644 364 | Strandhill WS | Bore | 300 |
| SLIGO | 24 | G660 150 | Ballymote Creamery | Well | 18 |
| | | | | | |
| TIPP. NTH | 1 | M959 044 | Abbeyville-Lisgreen GWS | Bore | 55 |
| TIPP. NTH | 3 | R912 934 | Ardcroney GWS | Bore | 272 |
| TIPP. NTH | 4 | R913 761 | Ballinaclough WS | Bore | |
| TIPP. NTH | 5 | R913 760 | Ballinaclough WS | Bore | 320 |
| TIPP. NTH | 7 | R984 968 | Ballingarry WS | Bore | 200 |
| TIPP. NTH | 14 | R927 934 | Borrisokane RWS | Bore | 500 |
| TIPP. NTH | 15 | S055 645 | Borrisoleigh WS | Bore | 325 |
| TIPP. NTH | 16 | S062 628 | Bouladuff WS | Bore | 60 |
| TIPP. NTH | 18 | M87 8006 | Carrigahorig GWS | Bore | |
| TIPP. NTH | 22 | S120 820 | Clonakenny WS | Bore | 5 |
| TIPP. NTH | 26 | S173 760 | Clonmore WS | Bore | 30 |
| TIPP. NTH | 27 | R966 880 | Cloughjordan WS | Spring | 320 |
| TIPP. NTH | 30 | S072 684 | Drom WS | Bore | 30 |
| TIPP. NTH | 31 | R814 858 | Dromineer WS | Bore | 83 |
| TIPP. NTH | 37 | S089 541 | Holycross | Bore | 25 |
| TIPP. NTH | 38 | R914 605 | Kilcommon WS | Bore | 227 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| TIPP. NTH | 39 | S048 679 | Kilfithmone WS | Bore | 6 |
| TIPP. NTH | 47 | S178 541 | Littleton WS | Bore | 130 |
| TIPP. NTH | 48 | M920 046 | Lorrha WS | Bore | 58 |
| TIPP. NTH | 50 | S155 495 | Moycarkey;Horse and Jocke | Bore | 160 |
| TIPP. NTH | 55 | R865 797 | Nenagh | Spring | |
| TIPP. NTH | 56 | R742 625 | Newport RWS | Bore | 360 |
| TIPP. NTH | 58 | R845 865 | Puckaun WS | Bore | 330 |
| TIPP. NTH | 59 | M98 0075 | Rathcabban WS | Bore | 62 |
| TIPP. NTH | 64 | S121 852 | Roscrea | Spring | 1600 |
| TIPP. NTH | 67 | R841 705 | Silvermines | Spring | |
| TIPP. NTH | 68 | R950 692 | Templederry WS | Bore | 90 |
| TIPP. NTH | 69 | S109 693 | Templemore | Bore | 200 |
| TIPP. NTH | 70 | S185 707 | Templetuohy WS | Bore | 107 |
| TIPP. NTH | 71 | R864 004 | Terryglass WS | Bore | 65 |
| TIPP. NTH | 73 | S126 591 | Thurles WS | Spring | 250 |
| TIPP. NTH | 74 | S099 584 | Thurles WS | Spring | 1000 |
| TIPP. NTH | 75 | S136 570 | Thurles WS | Spring | 1300 |
| TIPP. NTH | 76 | R970 773 | Toomevara WS | Spring | 100 |
| TIPP. NTH | 78 | R846 776 | Tullaheady WS | Bore | 20 |
| TIPP. NTH | 79 | S196 580 | Two-Mile-Borris GWS | Bore | 62 |
| TIPP. NTH | 80 | R988 614 | Upperchurch WS | Bore | 11 |
| TIPP. NTH | 82 | S022 560 | Drombane WS | Bore | |
| TIPP. NTH | 85 | N045 032 | Riverstown | Spring | |
| TIPP. NTH | 92 | R914 942 | Borrisokane Co-op | Bore | 25 |
| TIPP. NTH | 105 | S123 855 | Glenbeighe Dairy | Spring | 15 |
| TIPP. NTH | 116 | R906 844 | Nenagh Golf Course | Bores | 60 |
| TIPP. NTH | 118 | R726 620 | Newport Creamery | Bore (Artesian) | 36 |
| TIPP. NTH | 119 | R726 620 | Newport Creamery | Bore (Artesian) | 36 |
| TIPP. NTH | 122 | S140 900 | Roscrea Bacon | Bore | 318 |
| TIPP. NTH | 132 | S126 591 | Thurles Co-op Creamery | Well | 180 |
| TIPP. NTH | 133 | R969 774 | Toomevara Co-op | Bore | 15 |
| TIPP. NTH | 134 | R764 788 | Tubex Ltd | Springs | 5 |
| TIPP. NTH | 135 | R988 879 | Valentine, Mr. | Bore | 5 |
| TIPP. NTH | 136 | S127 592 | Valley Ice Cream | Well | 650 |
| | | | | | |
| TIPP. STH | 1 | S413 294 | Ahenny WS | Bore | 27 |
| TIPP. STH | 2 | R983 163 | Ardfinnan RWS | Spring | 6820 |
| TIPP. STH | 3 | S366 312 | Ballinvir WS | Bore | |
| TIPP. STH | 4 | S387 214 | Carrick on Suir WS (Coolnamuck) | Bore | 513 |
| TIPP. STH | 7 | S308 528 | CommonsWS | Bore | 100 |
| TIPP. STH | 8 | S080 460 | Dundrum RWS | Bore | 110 |
| TIPP. STH | 12 | R998 396 | Galtee RWS | Spring | 1500 |
| TIPP. STH | 14 | ----- | Glengar | Spring | 1500 |
| TIPP. STH | 16 | R936 549 | Holyford WS | Spring | 50 |
| TIPP. STH | 17 | R914 469 | Ironmills | Bore | 1200 |
| TIPP. STH | 18 | S310 282 | Kilcash WS | Spring | 27 |
| TIPP. STH | 21 | R904 341 | Tipperary WS | Spring | |
| TIPP. STH | 22 | S321 308 | Tullowhea WS | Spring | 35 |
| TIPP. STH | 23 | S276 486 | Ballincurry WS | Bore | |
| TIPP. STH | 24 | S272 512 | Coalbrook WS | Bore | |
| TIPP. STH | 27 | S265 626 | Inchirourke | Spring | |
| TIPP. STH | 34 | R920 256 | Tipperary Springs WS | Spring | |
| TIPP. STH | 47 | S280 335 | Cloran | Spring | |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| TIPP. STH | 50 | S224 344 | Mullenbawn | Spring | |
| | | | | | |
| WATERFORD | 2 | W979 960 | Aglish (Glencairn) WS | Spring | 54 |
| WATERFORD | 4 | X197 845 | Ardmore WS | Bore | |
| WATERFORD | 7 | S482 102 | Ballyduff-Kilmeaden WS | Spring | 250 |
| WATERFORD | 8 | X200 967 | Ballyduff-Ballylemon WS | Spring | 386 |
| WATERFORD | 14 | S195 109 | Ballymacarbry WS | Bore | 200 |
| WATERFORD | 33 | X132 849 | Clashmore WS | Spring | 115 |
| WATERFORD | 41 | X236 948 | Dungarvan | Bore | |
| WATERFORD | 46 | S341 029 | Garrahylish WS | Spring | 3 |
| WATERFORD | 48 | S211 211 | Glennagad WS | Bore | 20 |
| WATERFORD | 55 | X172 817 | Grange-Ballybrusa WS | Bore | |
| WATERFORD | 56 | X238 972 | Inchindrisla-Kilgobnet | Bore | 20 |
| WATERFORD | 58 | S388 187 | Joanstown WS | Bore | 18 |
| WATERFORD | 64 | S396 059 | Kilmacthomas WS | Spring | 160 |
| WATERFORD | 68 | X263 979 | Kilnafrehan WS | Bore | 11 |
| WATERFORD | 73 | S324 017 | Knockyelan WS | Spring | |
| WATERFORD | 78 | X131 978 | Lismore-Cappoquin RWS | Bore | 400 |
| WATERFORD | 79 | X255 854 | Loskeran-Old Parish WS | Spring | 55 |
| WATERFORD | 80 | S235 208 | Lyreanearle | Bore | 10 |
| WATERFORD | 85 | S459 121 | Portlaw WS | Spring | 400 |
| WATERFORD | 87 | S339 173 | Rathgormack WS | Bore | 15 |
| WATERFORD | 90 | S404 068 | Scrahan WS | Bore | 10 |
| WATERFORD | 95 | W999 947 | Tallow Hill WS | Spring | 30 |
| WATERFORD | 111 | X115 928 | Cappoquin | Bore | |
| WATERFORD | 112 | X236 948 | Dungarvan | Bore | |
| | | | | | |
| WESMEATH | 1 | N099 336 | Ballinahown WS | Well | 10 |
| WESMEATH | 2 | N317 610 | Ballynacargy | Gallery | 87 |
| WESMEATH | 4 | N645 684 | Clonmellon | Spring | 94 |
| WESMEATH | 6 | N565 508 | Killucan-Rathwire-Raharney WS | Gallery | 590 |
| WESMEATH | 9 | N214 389 | Moate | Spring | 1136 |
| WESMEATH | 10 | N129 427 | Mount Temple GWS | Well | 94 |
| WESMEATH | 12 | N417 628 | Multyfarnham GWS | Spring | 165 |
| WESMEATH | 16 | N411 385 | Tyrrellspass | Gallery | 364 |
| | | | | | |
| WEXFORD | 2 | S977 221 | Ballyhine | Bore | 25 |
| WEXFORD | 3 | S966 307 | Ballyhogue WS | Bore | 50 |
| WEXFORD | 4 | T003 189 | Ballymorris | Bore | 25 |
| WEXFORD | 6 | S947 325 | Bree WS | Bore | 100 |
| WEXFORD | 7 | S987 098 | Bridgetown | Bore | |
| WEXFORD | 8 | T075 523 | Camolin WS | Bore | 91 |
| WEXFORD | 9 | S831 245 | Carrigbyrne | Bore | 204 |
| WEXFORD | 12 | S854 320 | Clonroche WS? | Bore | 130 |
| WEXFORD | 14 | T187 702 | Coolgreany | Bore | 600 |
| WEXFORD | 18 | S969 409 | Enniscorthy WS | Bore | 200 |
| WEXFORD | 19 | T010 120 | Fardystown RWS | Bores | 9050 |
| WEXFORD | 20 | T015 504 | Ferns WS | Bore | 204 |
| WEXFORD | 21 | S921 281 | Galbally WS | Bore | 10 |
| WEXFORD | 22 | S973 270 | Glynn WS | Bore | 75 |
| WEXFORD | 24 | T137 415 | Kilmuckridge RWS | Bore | 400 |

Appendix 1 (continued)

| COUNTY | PLOT NO. | NATIONAL GRID REF. | NAME | SOURCE | QUANTITY $m^3/d$ |
|---|---|---|---|---|---|
| WEXFORD | 26 | S837 477 | Kiltealy | Springs | 91 |
| WEXFORD | 27 | T140 350 | Knocknasillogue | Bore | 25 |
| WEXFORD | 28 | S827 218 | Newbawn | Bore | |
| WEXFORD | 30 | T090 410 | Oulart | Bore | 30 |
| WEXFORD | 31 | T130 122 | Rosslare Harbour WS | Bore | |
| WEXFORD | 33 | T055 270 | Sow RWSS | Bore | |
| WEXFORD | 36 | T074 275 | Ballina | Bore | |
| WEXFORD | 37 | S711 178 | Ballinamona | Bore | |
| WEXFORD | 38 | T045 162 | Ballkilliane | Bore | |
| WEXFORD | 39 | T150 420 | Ballygarran | Bore | |
| WEXFORD | 40 | T050 155 | Ballykelly | Bore | |
| WEXFORD | 41 | T135 557 | Barnadown | Bore | |
| WEXFORD | 43 | S923 572 | Bunclody WS | Bore | |
| WEXFORD | 44 | T012 142 | Busherstown | Bore | |
| WEXFORD | 45 | S960 342 | Edermine | Bore | |
| WEXFORD | 46 | T050 136 | Orristown | Bore | |
| WEXFORD | 47 | T032 139 | Rathmacknee | Bore | |
| WEXFORD | 48 | S915 201 | Taghmon WS | Bore | |
| WEXFORD | 50 | T137 415 | Newtown | | |
| WEXFORD | 62 | T052 217 | Wexford Gas Co | Bore | 218 |
| | | | | | |
| WICKLOW | 2 | T163 776 | Ballycoogue | Bore | 27 |
| WICKLOW | 4 | S860 884 | Baltinglass WS | Spring | |
| WICKLOW | 8 | T267 862 | Barndarrig | Bore | 34 |
| WICKLOW | 10 | N999 058 | Carrigacurra GWS | Spring | |
| WICKLOW | 11 | T070 692 | Coolboy /Coolafancy WS | Spring | 90 |
| WICKLOW | 12 | S999 983 | Donard | Gallery | 135 |
| WICKLOW | 13 | N875 007 | Dunlavin | Springs | 340 |
| WICKLOW | 14 | ----- | Glenealy | Springs | 295 |
| WICKLOW | 15 | S843 948 | Grangecon | Bore | 18 |
| WICKLOW | 16 | N945 056 | Hollywood WS | Spring, Gallery | 270 |
| WICKLOW | 22 | S928 854 | Kiltegan | Bore | 90 |
| WICKLOW | 23 | T122 899 | Kirikee | Bore | 32 |
| WICKLOW | 24 | T013 814 | Knockananna WS | Bore | 70 |
| WICKLOW | 26 | T250 840 | Redcross | Bores | 180 |
| WICKLOW | 27 | O187 034 | Roundwood | Spring, Bore | 135 |
| WICKLOW | 29 | S915 918 | Stratford-Clonmoney | Spring, Gallery | 135 |
| WICKLOW | 31 | N991 057 | Valleymount | Spring | 40 |
| WICKLOW | 32 | O266 137 | Windgates-Templecarrig WS | Springs | 70 |
| WICKLOW | 33 | N975 140 | Ashtown GWS / Blessington | Bore | |
| WICKLOW | 43 | S878 878 | Baltinglass WS | Bore | 450 |
| WICKLOW | 44 | O292 077 | Bulford Farm | Bore | 50 |
| WICKLOW | 47 | S995 677 | Kerry Foods (Shillelagh) | Well | 600 |

Insert Map 2