



Waste Data Digest 5



Contents

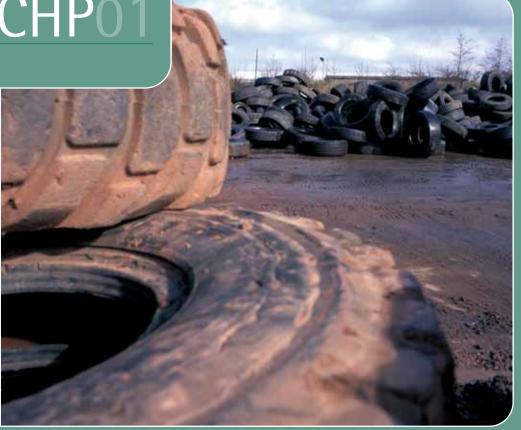
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Introduction





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Introduction

The Scottish Environment Protection Agency (SEPA) is committed to promoting sustainable waste management practices throughout Scotland. Accurate, up-to-date waste management data are required to aid policy development, to monitor policy change, to monitor regulatory activity, to implement the National Waste Strategy, and to meet internal and external reporting requirements.

This fifth Waste Data Digest published by SEPA details data collected by, or on behalf of, SEPA on controlled waste in Scotland. Data are reported, as far as possible, for the 2003 calendar year. However, in some instances, only financial year information is available and this is reported for 2003/2004. The data are presented in five chapters dealing with arisings, recovery, disposal, waste related operational activities, and trends and conclusions.

The annual Local Authority Waste Arisings Survey (LAWAS) remains SEPA's main source of data on municipal waste. The LAWAS is a voluntary survey completed by all 32 Scottish local authorities at the request of SEPA. It is a key tool for determining local authority waste arisings in Scotland and for collating information on the waste management activities carried out by, or on behalf of, Scottish local authorities.

SEPA collects information on non-municipal waste from two main sources. First, details of the waste dealt with by all licensed waste management sites are reported quarterly by operators using SEPA's waste management licence site return form. Data from the form are recorded in SEPA's waste data strategy database. Second, information from special waste consignment notes received by SEPA is recorded in its special waste database.

In 2004, SEPA initiated a national survey of commercial and industrial waste producers. This survey sought data on waste arisings, recycling and recovery and disposal to provide, for the first time, a comprehensive picture of commercial and industrial waste in Scotland. The findings will be published on SEPA's website in summer 2005.

As part of the development of a framework to address non-municipal wastes, National Best Practice Projects for industry sectors were introduced in April 2004. The aim of these projects is to obtain data on waste produced in specific industrial sectors and to help waste producers identify and develop the most sustainable option for wastes produced by their business. The scope of existing Priority Waste Stream Projects is being reviewed and, where appropriate, they will be incorporated within the extended National Best Practice Project framework.

Waste data information is available on SEPA's website at www.sepa.org.uk/nws/data/index.htm

Please note that where the sum of the figures in a table does not equal the total this is due to rounding.

A glossary of technical terms and an explanation of the acronyms used in this Data Digest can be found in Appendices I and II, respectively.

The next data digest, Waste Data Digest 6, reporting on 2004 and 2004/2005 waste data, will be published in spring 2006.



Local Authority Waste Arisings

Composition of Household Waste

Non-Municipal Waste Arisings
Packaging and packaging waste
Hazardous and special wastes



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Local Authority Waste Arisings

The data presented in this section are based on the returns provided for the Local Authority Waste Arisings Survey (LAWAS) 2003/2004. All 32 Scottish local authorities responded to SEPA's 2003/2004 LAWAS.

In 2003/2004, a total of 3.32 million tonnes of controlled wastes was collected by, or on behalf of, local authorities in Scotland. A breakdown of this total by waste type is shown in Table 1, and by individual local authority in Figure 1 and Table 2.

Table 1 - Total controlled waste collected by, or on behalf of, Scottish local authorities 2003/2004

| Waste type | Tonnes | 0/0 | |
|--|-----------|--------|--|
| Waste collected for disposal | | | |
| Household* | 2,015,578 | 60.76 | |
| Civic amenity sites ⁺ | 359,875 | 10.85 | |
| Commercial sources | 452,428 | 13.64 | |
| Industrial sources | 29,987 | 0.90 | |
| Other non-household sources [†] | 62,473 | 1.88 | |
| Total | 2,920,341 | 88.04 | |
| Waste collected for recycling and composting | | | |
| Household | 330,396 | 9.96 | |
| Non-household [§] | 66,283 | 2.00 | |
| Total | 396,678 | 11.96 | |
| | | | |
| Total arisings ¹ | 3,317,019 | 100.00 | |

^{*} For many local authorities, the mainstream household waste collection service is a mixed collection and includes household, commercial and industrial wastes. For the purpose of the LAWAS, local authorities provided the data for household, commercial and industrial waste from this collection round separately. In some cases, the percentage breakdown was estimated by the local authority

⁺ Civic amenity sites waste includes both household and commercial waste

[†] Other non-household waste includes: local authority parks and gardens waste; beach cleaning waste; clearance of fly tipped waste; abandoned vehicles; and waste not otherwise specified

[§] Includes incinerator residues

[¶] Waste arisings do not include home composting tonnages

Figure 1 - Controlled waste collected by, or on behalf of, individual Scottish local authorities 2003/2004

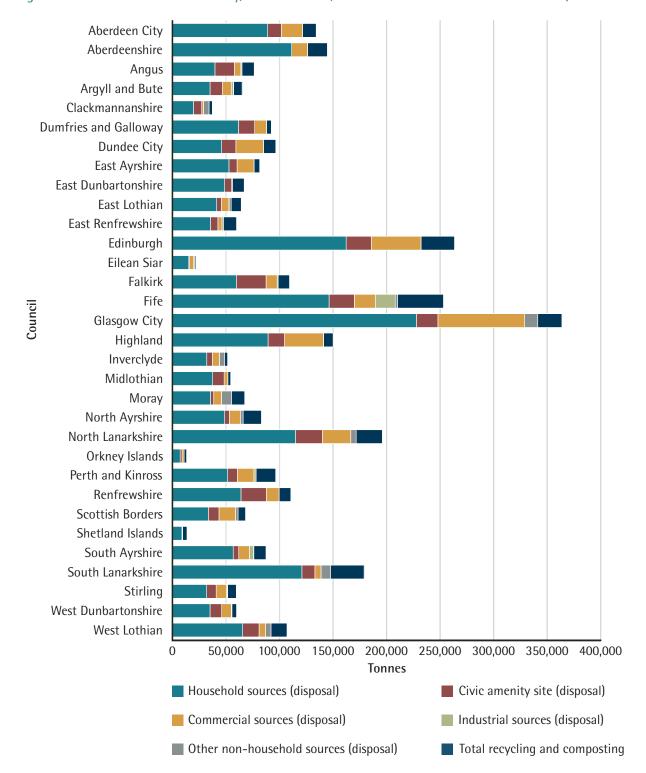


Table 2 – Controlled waste collected by, or on behalf of, individual Scottish local authorities 2003/2004

| | | Total local authority | Wa | iste collect | ed for dispo |) | Waste coll recyclin compostino | Household waste produced | | |
|--------------------------|-----------------------------|-------------------------|-----------|---------------------------------------|--------------|-------------------------|--------------------------------------|--------------------------------|--------------------------------|------------------------------|
| Local authority | Number of households* | waste arisings (tonnes) | Household | Civic amenity site [†] | Commercial | Industrial [†] | Other non- household | Household | Non- household [§] | per household (tonnes) |
| Aberdeen | 106,754 | 133,688 | 88,536 | 12,778 | 19,769 | 0 | 0 | 10,799 | 1,889 | 1.05 |
| Aberdeenshire | 100,738 | 144,203 | 110,888 | 0 | 14,797 | 0 | 0 | 16,382 | 2,136 | 1.26 |
| Angus | 50,010 | 76,032 | 39,434 | 18,126 | 6,031 | 928 | 0 | 6,890 | 4,634 | 1.29 |
| Argyll and Bute | 45,123 | 64,746 | 34,854 | 11,585 | 8,221 | 1,891 | 285 | 5,017 | 2,893 | 1.14 |
| Clackmannanshire | 22,054 | 37,017 | 19,501 | 7,487 | 1,762 | 0 | 5,188 | 2,776 | 303 | 1.35 |
| Dumfries and Galloway | 68,963 | 91,993 | 61,447 | 14,900 | 11,157 | 0 | 0 | 4,198 | 256 | 1.17 |
| Dundee | 74,012 | 96,109 | 45,713 | 13,199 | 25,747 | 0 | 0 | 8,341 | 3,110 | 0.91 |
| East Ayrshire | 53,654 | 81,078 | 52,473 | 7,595 | 15,743 | 0 | 0 | 3,985 | 1,282 | 1.19 |
| East Dunbartonshire | 43,092 | 68,718 | 48,473 | 6,533 | 2,636 | 0 | 0 | 9,995 | 1,081 | 1.51 |
| East Lothian | 40,834 | 63,975 | 41,019 | 4,500 | 6,913 | 326 | 1,870 | 7,994 | 1,353 | 1.31 |
| East Renfrewshire | 37,816 | 59,515 | 35,300 | 6,945 | 3,699 | 0 | 1,397 | 11,469 | 763 | 1.42 |
| Edinburgh | 219,000 | 262,585 | 161,657 | 23,383 | 46,260 | 0 | 0 | 25,590 | 5,695 | 0.96 |
| Eilean Siar | 13,751 | 21,794 | 15,088 | 805 | 3,784 | 1,017 | 0 | 176 | 924 | 1.17 |
| Falkirk | 63,570 | 108,898 | 59,364 | 27,706 | 10,363 | 916 | 0 | 8,970 | 1,580 | 1.51 |
| Fife | 160,432 | 252,262 | 145,769 | 23,523 | 19,559 | 18,494 | 2,110 | 36,883 | 5,923 | 1.29 |
| Glasgow | 290,381 | 362,608 | 227,099 | 20,000 | 80,836 | 0 | 12,148 | 15,875 | 6,650 | 0.91 |
| Highland | 102,546 | 149,559 | 88,956 | 15,339 | 36,143 | 0 | 47 | 8,155 | 919 | 1.10 |
| Inverclyde | 39,675 | 51,273 | 31,830 | 5,250 | 6,493 | 0 | 4,921 | 2,206 | 573 | 0.99 |
| Midlothian | 33,465 | 54,103 | 37,314 | 10,747 | 3,361 | 0 | 0 | 2,506 | 175 | 1.51 |
| Moray | 40,897 | 67,159 | 35,302 | 3,062 | 7,164 | 0 | 9,342 | 7,337 | 4,952 | 1.12 |
| North Ayrshire | 64,600 | 82,752 | 48,431 | 4,514 | 10,129 | 0 | 2,652 | 16,345 | 681 | 1.07 |
| North Lanarkshire | 137,663 | 195,337 | 114,387 | 25,189 | 26,382 | 0 | 5,038 | 22,139 | 2,202 | 1.17 |
| Orkney Islands | 9,508 | 13,050 | 7,093 | 1,763 | 1,917 | 0 | 0 | 2,255 | 22 | 1.17 |
| Perth and Kinross | 64,840 | 95,977 | 51,245 | 9,099 | 15,441 | 1,930 | 0 | 15,917 | 2,345 | 1.18 |
| Renfrewshire | 80,537 | 110,133 | 63,677 | 23,710 | 11,791 | 0 | 0 | 10,926 | 29 | 1.22 |
| Scottish Borders | 52,711 | 67,938 | 33,304 | 9,910 | 15,400 | 0 | 2,358 | 6,372 | 594 | 0.94 |
| Shetland Islands | 10,095 | 13,570 | 8,780 | 0 | 453 | 0 | 0 | 3,686 | 505 | 1.23 |
| South Ayrshire | 52,446 | 87,033 | 56,470 | 5,149 | 10,094 | 3,664 | 295 | 4,507 | 6,854 | 1.26 |
| South Lanarkshire | 134,611 | 178,373 | 120,409 | 12,124 | 5,665 | 0 | 8,976 | 30,499 | 700 | 1.21 |
| Stirling | 37,654 | 59,384 | 31,712 | 8,884 | 9,559 | 821 | 223 | 7,238 | 944 | 1.27 |
| West Dunbartonshire | 43,561 | 59,589 | 34,865 | 10,727 | 9,153 | 0 | 520 | 3,617 | 708 | 1.13 |
| West Lothian | 69,163 | 106,600 | 65,188 | 15,343 | 6,006 | 0 | 5,103 | 11,351 | 3,609 | 1.33 |
| Total | 2,364,156 | 3,317,051 | 2,015,578 | 359,875 | 452,428 | 29,987 | 62,473 | 330,396 | 66,284 | 1.14 |

^{*} Provided by Audit Scotland

[†] Civic amenity sites waste includes both household and commercial waste

[†] Due to change in definition, road planings are no longer included in the industrial total

[§] Includes incinerator residues

Composition of Household Waste

To develop an effective strategy for household waste, it is important to gather accurate information and to identify trends in the changes in the composition of household waste. This can change according to demographic, geographic and socio-economic factors in each local authority, and these changes can be both seasonal, and long-term.

SEPA has produced a draft national municipal waste analysis methodology in response to requests from a number of the Scottish local authorities for quidance in conducting the analysis of municipal waste. This methodology has been drawn up in conjunction with a study group with members from the Convention of Scottish Local Authorities (COSLA), the Scottish Executive, private industry and academia. Consultation on the methodology has taken place and the Scottish Executive will publish the guidance in summer 2005 as an appendix of the Strategic Waste Fund guidance.

The methodology has primarily been developed to give a robust and quantitative approach to the analysis of household kerbside waste. However, information to quide local authorities on the collection and analysis of waste from other parts of the municipal waste stream has also been included.

The LAWAS 2003/2004 asked local authorities if a compositional analysis of household waste had been carried out during 2003/2004. It also asked about the methods used to carry out this analysis. Local authorities were asked to report the results as percentage by weight according to the breakdown by material as shown in Table 3. Five of the 32 local authorities had carried out an analysis of household waste but only four actually reported their results because the fifth considered the outcome inconclusive. The results from the analyses reported by the four local authorities are shown in Table 3.

Table 3 - Household waste composition - LAWAS 2003/2004

| Waste category | Range of analyses (%) | Average (%) |
|---------------------------------------|-----------------------|-------------|
| Paper and card | 20.60-30.19 | 24.96 |
| Plastic film | 2.88-6.01 | 4.23 |
| Dense plastic | 5.20-8.32 | 6.26 |
| Textiles | 2.43-8.30 | 4.78 |
| Other combustible | 3.82-12.80 | 8.60 |
| Other non-combustibles | 0.20-4.31 | 2.32 |
| Glass | 5.20-9.81 | 7.24 |
| Putrescibles | 11.82-38.08 | 28.09 |
| Ferrous metals | 2.73-7.90 | 4.31 |
| Non-ferrous metals | 0.57-3.02 | 1.44 |
| Electrical/electronic equipment | 0.33-0.66 | 0.50 |
| Potentially hazardous household waste | 0.14-0.50 | 0.32 |
| Fines | 1.63-14.46 | 7.65 |

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Non-Municipal Waste Arisings

Non-municipal waste covers a broad spectrum of waste types generated by individual producers, ranging from sole traders and small commercial businesses to large industrial complexes.

Gathering data on non-municipal waste arisings in Scotland is difficult. There is currently no requirement for organisations to report non-municipal waste arisings to SEPA. To address this data gap, SEPA commissioned a pilot national survey of commercial and industrial waste producers in 2004. The main objective of this survey is to establish both the amount of waste produced in Scotland in 2003 and how it was managed. To achieve this, approximately 12,500 organisations throughout Scotland were asked to complete and return a purpose-designed questionnaire. Questionnaires were sent to all organisations in Scotland employing 50 people or more and a selection of smaller organisations. It is not possible to give a figure for total commercial and industrial waste arisings for Scotland in 2003 in this Data Digest because the survey will not be completed until May 2005. However, the findings will be published in autumn 2005 and made available on SEPA's website.

The data gathered from the commercial and industrial waste producer survey for Scotland will complement data on specific waste streams and industry sector specific wastes gathered through SEPA's Priority Waste Stream Projects and National Best Practice Project programmes.

As part of the development of a framework to address non-municipal wastes, National Best Practice Projects for industry sectors are being set up. The aim of these projects is to obtain data on waste produced in specific industrial sectors and to help waste producers identify and develop the most sustainable option for wastes produced by their business. In partnership with other key stakeholders, including industry and the waste management sector, SEPA will carry out technical studies into the specific waste types using an industry sector approach. High, medium and low priority wastes have been identified based on, for example, the quantity of waste, hazardous material content, recovery value and legislative requirements. The scope of existing Priority Waste Stream Projects is being reviewed and, where appropriate, they will be incorporated within the extended National Best Practice Project framework. Information on National Best Practice Projects is available at www.sepa.org.uk/nws/data/index.htm

Data on specific waste streams for 2003 are presented in the following sections.

Packaging and packaging waste

As a result of the Producer Responsibility Obligations (Packaging Waste) Regulations 1997, SEPA handles considerable data relating to packaging and packaging waste.

In 2003, approximately 10.1 million tonnes of packaging waste were produced in the UK. Of this, it was estimated that approximately 1 million tonnes arose in Scotland. Table 4 provides a breakdown of packaging flowing into the UK waste stream in 2003.

Table 4 - Total tonnage of packaging flowing into the UK waste stream 2003

| Material | Tonnes |
|-----------|------------|
| Paper | 3,725,652 |
| Glass | 2,300,000 |
| Plastic | 1,792,200 |
| Steel | 684,825 |
| Wood | 1,403,694 |
| Aluminium | 128,000 |
| Other | 25,000 |
| Total | 10,059,371 |

Hazardous and special wastes

The Hazardous Waste Directive (91/689/EC) provides the framework for the control of hazardous or 'special' waste. The Annexes to the Directive include descriptions of categories or generic types of hazardous waste according to their nature or the activity by which they are generated, and the properties that render them hazardous. Subsequently, European Commission Decision (94/904/EC) established the Hazardous Waste List. This was repealed from 1 January 2002 by Council Decision 2000/532/EC. This Decision established a single Community list which integrated the list of hazardous waste laid down in Decision 94/904/EC and the list of waste laid down in Decision 94/3/EC. It was subsequently amended by Commission Decisions 2001/118/EC, 2001/119/EC and Council Decision 2001/573/EC. Certain wastes on the list are classified as hazardous because they display one or more hazardous characteristics or properties such as being explosive, highly flammable, toxic or carcinogenic.

The Special Waste Regulations 1996 transposed the requirements of the Hazardous Waste Directive into UK law. However, they did not fully transpose all the Directive's requirements. Nor did they take into account possible amendments to, and expansions of, the European Waste Catalogue and the list of hazardous wastes. The Special Waste Amendment (Scotland) Regulations 2004 address these issues but make very few changes to the current UK regulatory regime. Regulations 2, 2A and 2B provide a full definition of special waste. Simply, 'special waste' is any waste which is hazardous waste as defined by Article 1(4) of the Hazardous Waste Directive. These Regulations came into force in July 2004.

SEPA, the Environment Agency and the Northern Ireland Environment and Heritage Service (NIEHS) have produced technical guidance on the interpretation of the definition and classification of hazardous waste in the UK'.

In 2003, approximately 490,000 tonnes of special waste were consigned within Scotland and 76,400 tonnes were exported to England and Wales. The exported total may include wastes already consigned within Scotland. The total waste exported may be an underestimate as it is not possible to identify the quantity of waste collected as part of carriers' rounds. Some carriers' rounds originate in England or Wales and collect waste in Scotland; this waste will not be included in the total.

A breakdown of the waste by destination type is given in Table 5 and by European Waste Catalogue (EWC) short code in Table 6. The third and fourth chapters of this Digest contain more detailed information on special waste sent to treatment plants and landfills. Data on special waste are derived from SEPA's special waste consignment note database and the Environment Agency's Hazardous Waste Interrogator.

Table 5 - Special waste consigned within Scotland by destination type in 2003

| Destination type | Tonnes |
|-----------------------------------|---------|
| Landfill | 164,417 |
| Transfer station | 92,545 |
| Treatment plant | 201,551 |
| Incinerator | 19,507 |
| Transfer station/treatment plant* | 10,437 |
| Scrapyard | 2,259 |
| Unallocated | 203 |
| Total | 490,919 |

^{*} Certain sites are licensed as both transfer stations and treatment plants. In some instances, it was not possible to identify whether waste entering the site was going to the transfer station or the treatment plant

Table 6 – Special waste consigned within Scotland and consigned to England and Wales by European Waste

| EWC Code | Description | Consigned within Scotland | Consigned to England or Wales*+ |
|----------|--|---------------------------------|---------------------------------------|
| | | Tonnes | Tonnes |
| 01 | Mining and minerals | 88,392 | 73 |
| 02 | Agricultural and food production | 482 | 446 |
| 03 | Wood and paper production | 1,557 | 46 |
| 04 | Leather and textile production | 59 | 93 |
| 05 | Petrol, gas and coal refining/treatment | 27,997 | 491 |
| 06 | Inorganic chemical processes | 7,079 | 5,993 |
| 07 | Organic chemical processes | 19,699 | 31,089 |
| 08 | Paints, varnish, adhesive and inks | 4,694 | 2,054 |
| 09 | Photographic industry | 1,975 | 784 |
| 10 | Thermal process waste (inorganic) | 1,315 | 729 |
| 11 | Metal treatment and coating processes | 5,860 | 813 |
| 12 | Shaping/treatment of metals and plastics | 3,306 | 20 |
| 13 | Oil and oil/water mixtures | 123,683 | 4,531 |
| 14 | Solvents | 3,322 | 5,100 |
| 15 | Packaging, cloths, filter materials | 6,379 | 642 |
| 16 | Not otherwise specified | 31,034 | 7,467 |
| 17 | Construction and demolition waste and asbestos | 144,983 | 2,925 |
| 18 | Health care | 1,563 | 564 |
| 19 | Waste/water treatment and water industry | 11,411 | 1,254 |
| 20 | Municipal and similar commercial wastes | 6,047 | 2,618 |
| Uncoded | Unclassified | 83 | 8,669 |
| Total | | 490,919 | 76,400 |

^{*} The exported total may include wastes already consigned within Scotland

[†] Waste collected from Scotland through carriers' rounds originating in England or Wales will not be included in the total



Local Authority Waste Recovery

Local authority recycling
Local authority recycling initiatives
Local authority composting
Local authority composting initiative

Home Composting

Local Authority Quarterly Recycling/ Composting Return

Non-Municipal Waste Recovery

Packaging and packaging waste
Hazardous and special wastes
Imports and exports of hazardous was



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Local Authority Waste Recovery

Recovery is considered as the sum of recycling, composting and energy from waste.

There were two municipal waste incinerators recovering energy from waste operating in Scotland in 2003. These are, however, classified as disposal activities and details of them are included in the Waste Disposal chapter of this Digest.

The combined recycling and composting rate for Scotland for 2003/2004 was 12.1% of the total waste collected by, or on behalf of, Scottish local authorities. SEPA has worked with Audit Scotland to obtain consistency in the reporting of local authority recycling rates. For 2003/2004, there is good agreement between the rates published by the two organisations, i.e. 12.3% from Audit Scotland and 12.1% from SEPA. In calculating the recycling rate, end-of-life vehicles (ELVs) collected by local authorities have been omitted.

The recycling and composting rate for 2003/2004 is higher than that for 2002/2003 (8.0%). This reflects the work by local authorities to implement their recycling and composting plans in conjunction with the Strategic Waste Fund monies allocated by the Scottish Executive and the National Waste Plan 2003. The National Waste Plan 2003 provides Scotland with guidelines for meeting the target of recycling and composting 25% of municipal waste by 2006. Trends in the recycling and composting rate for local authorities are examined in the final chapter.

Table 7 gives a breakdown of the recycling and composting rates for each local authority.

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Table 7 – Recycling and composting rates for Scottish local authorities 2003/2004

| Local authority | Total local authority waste arisings (tonnes)* | Waste recycled (%) | Waste composted (%) | Waste composted or recycled (%) |
|-----------------------|--|-----------------------|---------------------|---------------------------------------|
| Aberdeen | 133,090 | 7.1 | 2.0 | 9.1 |
| Aberdeenshire | 143,983 | 7.1 | 5.6 | 12.7 |
| Angus | 75,841 | 20.1 | 6.7 | 26.8 |
| Argyll and Bute | 63,267 | 10.0 | 0.1 | 10.2 |
| Clackmannanshire | 36,849 | 7.7 | 0.2 | 7.9 |
| Dumfries and Galloway | 91,737 | 3.8 | 0.0 | 3.8 |
| Dundee | 95,015 | 17.9 | 3.2 | 21.1 |
| East Ayrshire | 80,458 | 5.1 | 0.7 | 5.8 |
| East Dunbartonshire | 68,522 | 12.9 | 3.0 | 15.9 |
| East Lothian | 63,197 | 9.1 | 4.4 | 13.6 |
| East Renfrewshire | 59,488 | 17.5 | 4.9 | 22.4 |
| Edinburgh | 261,615 | 9.3 | 2.3 | 11.6 |
| Eilean Siar | 20,964 | 6.2 | 0.0 | 6.2 |
| Falkirk | 108,483 | 8.4 | 2.9 | 11.3 |
| Fife | 252,002 | 13.5 | 3.4 | 16.9 |
| Glasgow | 361,964 | 3.5 | 2.5 | 6.0 |
| Highland | 149,079 | 4.0 | 1.8 | 5.8 |
| Inverclyde | 51,225 | 5.3 | 0.0 | 5.3 |
| Midlothian | 53,928 | 4.6 | 0.0 | 4.6 |
| Moray | 67,131 | 15.0 | 3.3 | 18.3 |
| North Ayrshire | 82,685 | 9.0 | 11.3 | 20.3 |
| North Lanarkshire | 194,163 | 7.4 | 4.5 | 11.9 |
| Orkney Islands | 13,050 | 8.5 | 6.2 | 14.7 |
| Perth and Kinross | 95,773 | 11.2 | 7.7 | 18.9 |
| Renfrewshire | 110,104 | 6.9 | 3.0 | 9.9 |
| Scottish Borders | 67,817 | 9.1 | 1.0 | 10.1 |
| Shetland Islands | 13,450 | 9.0 | 0.0 | 9.0 |
| South Ayrshire | 86,867 | 4.6 | 8.3 | 12.9 |
| South Lanarkshire | 177,673 | 12.1 | 5.1 | 17.2 |
| Stirling | 59,242 | 9.3 | 4.3 | 13.6 |
| West Dunbartonshire | 59,449 | 7.0 | 0.0 | 7.0 |
| West Lothian | 106,317 | 5.6 | 5.4 | 11.0 |
| Total | 3,304,428 | 8.7 | 3.4 | 12.1 |

^{*} End-of-life vehicles (ELVs) are excluded from the calculation in accordance with Audit Scotland guidance

Local authority recycling

A total of 298,683 tonnes of waste collected by, or on behalf of, Scottish local authorities was recycled during 2003/2004. This total was made up of 282,765 tonnes of waste collected for recycling plus an additional 16,625 tonnes of waste originally collected for disposal but actually recycled. Of the waste collected for recycling, 707 tonnes had to be sent for disposal because either there was no market for the recyclate or contamination had made the waste unfit for recycling.

A total of 120,600 tonnes of material was sent for recycling outside the local authority area within which it was collected and 178,079 tonnes were recycled within the authority.

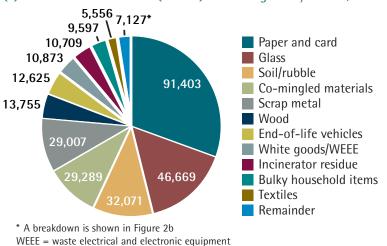
Recyclables were mainly collected through bring (drop-off) collection schemes (including the 166 civic amenity sites operating across Scotland) and kerbside schemes. A total of 147,717 tonnes was collected at bring sites and 98,767 tonnes by kerbside collections. In addition, 31,565 tonnes were recovered at material recycling facilities (MRFs) and 20,631 tonnes were recovered by other methods.

The recycling figures relate only to waste collected for recycling by, or on behalf of, Scottish local authorities. This covers waste collected by the local authority itself and organisations in the private and voluntary sector with a contract agreement with the local authority to collect recyclables.

Figure 2a and 2b show the breakdown of Scottish local authority recycling in 2003/2004 by material. For clarity, Figure 2a shows those materials where the weight recycled exceeded 5,000 tonnes and Figure 2b shows those where the weight was less than 5,000 tonnes. Table 8 gives the quantities of the materials recycled by, or on behalf of, Scottish local authorities and the councils' recycling rates expressed as a percentage of total waste collected. Table 9 shows the amount recycled by the local authorities by material source.

Figure 2 - Scottish local authority recycling 2003/2004

(a) Breakdown of materials (tonnes): total weight recycled >5,000 tonnes



(b) Breakdown of materials (tonnes): total weight recycled <5,000 tonnes

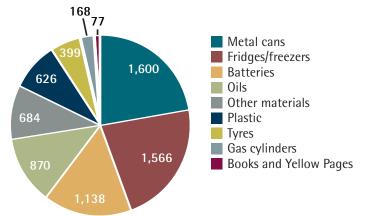


Table 8 – Breakdown by material of waste recycled by, or on behalf of, Scottish local authorities 2003/2004

| | | Tonnes | | | | | | | | | | | |
|--------------------------|--------|--------|--------|--------------------------|---------------|----------------|------------|---------|----------|------|-----------------|-------------------------|-----------|
| Local authority | Glass | Paper | Card | Mixed paper & card | Steel cans | Aluminium cans | Mixed cans | Plastic | Textiles | Oils | Scrap metal* | White goods/ WEEE | Batteries |
| Aberdeen | 2,414 | 0 | 406 | 5,682 | 0 | 0 | 9 | 20 | 11 | 15 | 642 | 186 | 68 |
| Aberdeenshire | 3,021 | 3,436 | 1,504 | 0 | 0 | 0 | 201 | 105 | 168 | 54 | 1,163 | 423 | 122 |
| Angus | 1,241 | 1,723 | 1,103 | 16 | 0 | 11 | 67 | 76 | 111 | 14 | 2,419 | 201 | 59 |
| Argyll and Bute | 1,593 | 2,550 | 449 | 0 | 44 | 16 | 0 | 41 | 0 | 22 | 1,184 | 178 | 35 |
| Clackmannanshire | 733 | 1,131 | 67 | 0 | 0 | 0 | 105 | 12 | 44 | 10 | 250 | 68 | 18 |
| Dumfries and Galloway | 1,178 | 10 | 0 | 664 | 0 | 0 | 7 | 6 | 29 | 22 | 1,143 | 329 | 47 |
| Dundee | 2,021 | 2,586 | 78 | 0 | 0 | 21 | 0 | 2 | 193 | 7 | 3,129 | 0 | 30 |
| East Ayrshire | 854 | 0 | 575 | 1,063 | 0 | 0 | 31 | 0 | 92 | 47 | 321 | 221 | 13 |
| East Dunbartonshire | 1,363 | 3,338 | 0 | 0 | 0 | 0 | 1 | 62 | 146 | 12 | 0 | 155 | 0 |
| East Lothian | 1,000 | 2,423 | 0 | 0 | 0 | 0 | 47 | 0 | 94 | 14 | 604 | 162 | 29 |
| East Renfrewshire | 837 | 2,420 | 260 | 0 | 3 | 2 | 99 | 8 | 110 | 5 | 754 | 0 | 25 |
| Edinburgh | 4,562 | 11,111 | 166 | 694 | 93 | 46 | 0 | 86 | 2,300 | 21 | 1,597 | 2,271 | 55 |
| Eilean Siar | 94 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 971 | 0 | 0 |
| Falkirk | 997 | 2,269 | 755 | 0 | 0 | 22 | 17 | 7 | 108 | 11 | 220 | 812 | 31 |
| Fife | 3,550 | 9,112 | 539 | 0 | 0 | 0 | 15 | 26 | 371 | 86 | 2,386 | 770 | 51 |
| Glasgow | 4,279 | 5,522 | 67 | 0 | 120 | 137 | 0 | 61 | 258 | 26 | 790 | 1,018 | 46 |
| Highland | 2,759 | 983 | 606 | 0 | 17 | 21 | 8 | 0 | 134 | 33 | 706 | 507 | 69 |
| Inverclyde | 666 | 1,192 | 0 | 118 | 0 | 3 | 13 | 18 | 87 | 9 | 322 | 0 | 6 |
| Midlothian | 746 | 742 | 0 | 0 | 0 | 0 | 6 | 0 | 63 | 14 | 720 | 153 | 26 |
| Moray | 878 | 0 | 1,260 | 1,155 | 0 | 0 | 53 | 0 | 94 | 18 | 1,598 | 365 | 49 |
| North Ayrshire | 670 | 1,049 | 0 | 0 | 0 | 1 | 0 | 0 | 174 | 15 | 137 | 675 | 0 |
| North Lanarkshire | 973 | 2,180 | 925 | 10 | 0 | 0 | 21 | 0 | 235 | 201 | 954 | 536 | 54 |
| Orkney Islands | 530 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 51 | 301 | 135 | 10 |
| Perth and Kinross | 1,950 | 3,602 | 1,093 | 0 | 0 | 14 | 0 | 16 | 105 | 16 | 2,119 | 29 | 52 |
| Renfrewshire | 1,063 | 186 | 628 | 0 | 0 | 0 | 0 | 0 | 41 | 15 | 852 | 365 | 34 |
| Scottish Borders | 1,754 | 0 | 0 | 3,605 | 0 | 0 | 28 | 0 | 47 | 17 | 484 | 173 | 34 |
| Shetland Islands | 315 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 654 | 33 | 112 |
| South Ayrshire | 828 | 804 | 559 | 385 | 0 | 0 | 19 | 2 | 0 | 44 | 520 | 0 | 4 |
| South Lanarkshire | 1,220 | 1,388 | 0 | 0 | 0 | 0 | 39 | 0 | 310 | 49 | 1,122 | 0 | 18 |
| Stirling | 1,507 | 2,371 | 364 | 25 | 0 | 0 | 77 | 21 | 111 | 8 | 485 | 447 | 22 |
| West Dunbartonshire | 522 | 2,046 | 251 | 0 | 3 | 10 | 4 | 21 | 44 | 0 | 255 | 310 | 0 |
| West Lothian | 551 | 1,749 | 74 | 240 | 130 | 19 | 0 | 37 | 78 | 12 | 205 | 351 | 21 |
| Total | 46,669 | 66,016 | 11,729 | 13,661 | 410 | 326 | 867 | 627 | 5,558 | 870 | 29,007 | 10,873 | 1,140 |

^{*} Scrap metal includes ferrous and non-ferrous metal

Table 8 – Breakdown by material of waste recycled by, or on behalf of, Scottish local authorities 2003/2004 (continued)

| | Tonnes | | | | | | | | | | | | |
|--------------------------|--|--------|--------------------------------------|------------------------------|-----------------------------|----------------------|-------|------------------|---------------------------|--------|---------|---------------|------------------|
| Local authority | Co- mingled materials [†] | Wood | Residue from inciner- ation | Soil/ rubble [†] | Bulky household items | Fridges/ freezers | Tyres | Gas cylinders | Books/ Yellow Pages | Others | Total | Recycled (%)§ | ELVs (tonnes) |
| Aberdeen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 9,459 | 7.1 | 598 |
| Aberdeenshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 10,226 | 7.1 | 220 |
| Angus | 0 | 735 | 2,703 | 4,701 | 44 | 0 | 0 | 10 | 0 | 38 | 15,272 | 20.1 | 191 |
| Argyll and Bute | 0 | 0 | 0 | 207 | 15 | 0 | 0 | 0 | 2 | 0 | 6,336 | 10.0 | 1,479 |
| Clackmannanshire | 0 | 281 | 0 | 100 | 0 | 0 | 8 | 6 | 0 | 0 | 2,833 | 7.7 | 168 |
| Dumfries and Galloway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 3,450 | 3.8 | 256 |
| Dundee | 0 | 0 | 7,650 | 947 | 0 | 301 | 0 | 0 | 0 | 0 | 16,965 | 17.9 | 1,094 |
| East Ayrshire | 0 | 128 | 0 | 743 | 0 | 0 | 0 | 6 | 2 | 0 | 4,096 | 5.1 | 620 |
| East Dunbartonshire | 418 | 0 | 0 | 3,328 | 0 | 0 | 0 | 0 | 0 | 0 | 8,823 | 12.9 | 196 |
| East Lothian | 0 | 103 | 0 | 1,263 | 0 | 0 | 0 | 9 | 7 | 0 | 5,755 | 9.1 | 779 |
| East Renfrewshire | 2,091 | 712 | 0 | 2,644 | 0 | 241 | 0 | 0 | 0 | 190 | 10,401 | 17.5 | 27 |
| Edinburgh | 0 | 884 | 0 | 345 | 0 | 0 | 101 | 0 | 10 | 0 | 24,342 | 9.3 | 970 |
| Eilean Siar | 83 | 0 | 0 | 0 | 0 | 47 | 11 | 0 | 0 | 0 | 1,299 | 6.2 | 830 |
| Falkirk | 0 | 1,611 | 0 | 2,122 | 0 | 0 | 0 | 0 | 1 | 77 | 9,060 | 8.4 | 415 |
| Fife | 0 | 4,766 | 0 | 12,225 | 0 | 0 | 20 | 47 | 0 | 0 | 33,964 | 13.5 | 261 |
| Glasgow | 0 | 176 | 0 | 0 | 316 | 0 | 0 | 0 | 2 | 0 | 12,818 | 3.5 | 644 |
| Highland | 0 | 7 | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 0 | 5,914 | 4.0 | 480 |
| Inverclyde | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 298 | 2,732 | 5.3 | 49 |
| Midlothian | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 1 | 0 | 2,506 | 4.6 | 175 |
| Moray | 0 | 1,826 | 0 | 2,751 | 0 | 0 | 0 | 0 | 7 | 0 | 10,054 | 15.0 | 28 |
| North Ayrshire | 3,645 | 670 | 0 | 0 | 383 | 0 | 0 | 4 | 1 | 0 | 7,424 | 9.0 | 67 |
| North Lanarkshire | 3,438 | 0 | 0 | 0 | 4,839 | 0 | 0 | 0 | 0 | 0 | 14,366 | 7.4 | 1,174 |
| Orkney Islands | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,106 | 8.5 | 0 |
| Perth and Kinross | 0 | 1,094 | 281 | 0 | 0 | 315 | 0 | 14 | 0 | 0 | 10,700 | 11.2 | 204 |
| Renfrewshire | 4,329 | 71 | 0 | 0 | 55 | 0 | 0 | 0 | 1 | 0 | 7,640 | 6.9 | 29 |
| Scottish Borders | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 4 | 0 | 0 | 6,161 | 9.1 | 121 |
| Shetland Islands | 15 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 1 | 0 | 1,208 | 9.0 | 120 |
| South Ayrshire | 0 | 391 | 0 | 0 | 0 | 431 | 0 | 0 | 0 | 0 | 3,987 | 4.6 | 166 |
| South Lanarkshire | 13,889 | 0 | 0 | 0 | 3,358 | 0 | 87 | 0 | 6 | 0 | 21,486 | 12.1 | 700 |
| Stirling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 5,493 | 9.3 | 142 |
| West Dunbartonshire | 0 | 66 | 0 | 0 | 572 | 0 | 0 | 0 | 0 | 81 | 4,185 | 7.0 | 140 |
| West Lothian | 1,382 | 234 | 0 | 694 | 0 | 231 | 0 | 0 | 0 | 0 | 6,008 | 5.6 | 283 |
| Total | 29,290 | 13,755 | 10,709 | 32,070 | 9,597 | 1,566 | 399 | 170 | 76 | 684 | 286,069 | 8.7 | 12,626 |

[†] Where a breakdown of co-mingled material was provided, the total tonnage has been divided between the components and added to the relevant category (glass, card, etc.)

[†] Soil/rubble includes sand, gravel, inert, sweepings and aggregates

[§] To ensure consistency with the recycling rate calculated by Audit Scotland, the tonnages for ELVs have been excluded from the calculation

Table 9 – Breakdown of the local authority recycling by material source

| | Amount recycled by waste source (tonnes) | | | | | | | | | | |
|-----------------------|--|------------|------------|---------------|---------|--------|--|--|--|--|--|
| | | | | Other | | | | | | | |
| Local authority | Household | Commercial | Industrial | non-household | Total | ELVs | | | | | |
| Aberdeen | 8,168 | 1,291 | 0 | 0 | 9,459 | 598 | | | | | |
| Aberdeenshire | 8,310 | 1,916 | 0 | 0 | 10,226 | 220 | | | | | |
| Angus | 12,096 | 3,126 | 49 | 0 | 15,271 | 191 | | | | | |
| Argyll and Bute | 4,941 | 1,315 | 80 | 0 | 6,336 | 1,479 | | | | | |
| Clackmannanshire | 2,707 | 125 | 0 | 0 | 2,832 | 168 | | | | | |
| Dumfries and Galloway | 3,448 | 0 | 0 | 0 | 3,448 | 256 | | | | | |
| Dundee | 12,149 | 4,816 | 0 | 0 | 16,965 | 1,094 | | | | | |
| East Ayrshire | 3,434 | 662 | 0 | 0 | 4,096 | 620 | | | | | |
| East Dunbartonshire | 7,938 | 885 | 0 | 0 | 8,823 | 196 | | | | | |
| East Lothian | 5,414 | 339 | 0 | 0 | 5,753 | 779 | | | | | |
| East Renfrewshire | 9,541 | 824 | 0 | 33 | 10,398 | 27 | | | | | |
| Edinburgh | 21,248 | 3,094 | 0 | 0 | 24,342 | 970 | | | | | |
| Eilean Siar | 967 | 282 | 51 | 0 | 1,300 | 830 | | | | | |
| Falkirk | 6,835 | 2,206 | 20 | 0 | 9,061 | 415 | | | | | |
| Fife | 30,003 | 3,962 | 0 | 0 | 33,965 | 261 | | | | | |
| Glasgow | 10,883 | 1,935 | 0 | 0 | 12,818 | 644 | | | | | |
| Highland | 5,456 | 456 | 0 | 0 | 5,912 | 480 | | | | | |
| Inverclyde | 2,206 | 524 | 0 | 0 | 2,730 | 49 | | | | | |
| Midlothian | 2,506 | 0 | 0 | 0 | 2,506 | 175 | | | | | |
| Moray | 5,571 | 4,483 | 0 | 0 | 10,054 | 28 | | | | | |
| North Ayrshire | 6,994 | 423 | 0 | 6 | 7,423 | 67 | | | | | |
| North Lanarkshire | 13,338 | 1,028 | 0 | 0 | 14,366 | 1,174 | | | | | |
| Orkney Islands | 1,082 | 24 | 0 | 0 | 1,106 | 0 | | | | | |
| Perth and Kinross | 9,939 | 753 | 9 | 0 | 10,701 | 204 | | | | | |
| Renfrewshire | 7,640 | 0 | 0 | 0 | 7,640 | 29 | | | | | |
| Scottish Borders | 5,688 | 473 | 0 | 0 | 6,161 | 121 | | | | | |
| Shetland Islands | 818 | 391 | 0 | 0 | 1,209 | 120 | | | | | |
| South Ayrshire | 3,022 | 966 | 0 | 0 | 3,988 | 166 | | | | | |
| South Lanarkshire | 21,485 | 0 | 0 | 0 | 21,485 | 700 | | | | | |
| Stirling | 5,103 | 388 | 0 | 0 | 5,491 | 142 | | | | | |
| West Dunbartonshire | 3,617 | 568 | 0 | 0 | 4,185 | 140 | | | | | |
| West Lothian | 5,572 | 435 | 0 | 0 | 6,007 | 283 | | | | | |
| Total | 248,119 | 37,690 | 209 | 39 | 286,057 | 12,626 | | | | | |

Local authority recycling initiatives

In 2003/2004, all local authorities had a bring (drop-off) recycling collection scheme operating in their area. Twenty-eight of the 32 local authorities reported that they had a kerbside recycling collection scheme for household waste and 27 that they had a kerbside recycling collection scheme for commercial/industrial waste. A separate kerbside recycling collection was offered to 1.11 million households (equivalent to 47% of all households in Scotland). Table 10 gives a breakdown of this by local authority.

Table 10 - Scottish households offered a kerbside recycling collection 2003/2004

| Local authority | Number of households offered kerbside recycling collections* | Percentage of total households | Total collected from households (tonnes) | Household waste recycled per household (kg) |
|-----------------------|--|--------------------------------|--|---|
| Aberdeen | 90,000 | 84 | 5,347 | 59 |
| Aberdeenshire | 31,000 | 31 | 912 | 29 |
| Angus [†] | 37,000 | 74 | 0 | 0 |
| Argyll and Bute | 15,000 | 33 | 1,345 | 90 |
| Clackmannanshire | 21,840 | 99 | 1,583 | 72 |
| Dumfries and Galloway | 4,750 | 7 | 324 | 68 |
| Dundee | 49,471 | 67 | 2,586 | 52 |
| East Ayrshire | 3,551 | 7 | 1,064 | 300 |
| East Dunbartonshire | 36,000 | 84 | 3,287 | 91 |
| East Lothian | 35,000 | 86 | 1,866 | 53 |
| East Renfrewshire | 21,000 | 56 | 2,614 | 124 |
| Edinburgh | 110,318 | 50 | 6,695 | 61 |
| Eilean Siar | 0 | 0 | 0 | 0 |
| Falkirk | 52,200 | 82 | 2,651 | 51 |
| Fife | 109,868 | 68 | 8,844 | 80 |
| Glasgow | 48,000 | 17 | 1,018 | 21 |
| Highland | 3,600 | 4 | 258 | 72 |
| Inverclyde | 13,225 | 33 | 860 | 65 |
| Midlothian | 0 | 0 | 0 | 0 |
| Moray | 0 | 0 | 0 | 0 |
| North Ayrshire | 64,600 | 100 | 730 | 11 |
| North Lanarkshire | 79,000 | 57 | 7,341 | 93 |
| Orkney Islands | 9,532 | 100 | 242 | 25 |
| Perth and Kinross | 37,599 | 58 | 2,819 | 75 |
| Renfrewshire | 20,500 | 25 | 186 | 9 |
| Scottish Borders | 31,200 | 59 | 3,348 | 107 |
| Shetland Islands | 0 | 0 | 0 | 0 |
| South Ayrshire | 13,392 | 26 | 252 | 19 |
| South Lanarkshire | 39,000 | 29 | 2,474 | 63 |
| Stirling | 37,000 | 98 | 3,083 | 83 |
| West Dunbartonshire | 32,000 | 73 | 2,465 | 77 |
| West Lothian | 69,163 | 42 | 1,321 | 19 |
| Total | 1,114,809 | 47 | 65,515 | 59 |

^{*} For certain local authorities, the number of households includes those provided with an 'on demand' service

⁺ Households within the Angus Council area were offered a kerbside collection as part of a trial scheme. The total amount of waste collected for recycling could not be identified

Only one local authority did not have a kerbside recycling collection scheme of any type. Fourteen local authorities reported that they had sent a total of 31,000 tonnes of waste to a material reclamation facility (MRF) for sorting and recycling. In addition, 13 local authorities reported that they had undertaken other recycling, which included extracting materials from the waste collected for disposal and the recycling of residues from incineration. Table 11 details the recycling initiatives available in each Scottish local authority in 2003/2004.

Table 11 - Local authority recycling initiatives in Scotland 2003/2004

| | Kerbside rec | ycling collection | | | |
|-----------------------|--------------------|---------------------------------|-------------------------------|-----------------------|-----------------|
| Local authority | Household waste | Commercial/ industrial waste | Bring (drop-off) recycling | Materials sent to MRF | Other recycling |
| Aberdeen | Yes | Yes | Yes | No | No |
| Aberdeenshire | Yes | Yes | Yes | No | No |
| Angus | Yes | Yes | Yes | Yes | Yes |
| Argyll and Bute | Yes | Yes | Yes | No | No |
| Clackmannanshire | Yes | No | Yes | No | No |
| Dumfries and Galloway | Yes | No | Yes | No | No |
| Dundee | Yes | Yes | Yes | Yes | Yes |
| East Ayrshire | Yes | Yes | Yes | Yes | Yes |
| East Dunbartonshire | Yes | Yes | Yes | No | Yes |
| East Lothian | Yes | Yes | Yes | No | No |
| East Renfrewshire | Yes | Yes | Yes | No | Yes |
| Edinburgh | Yes | Yes | Yes | No | No |
| Eilean Siar | No | Yes | Yes | No | Yes |
| Falkirk | Yes | Yes | Yes | Yes | Yes |
| Fife | Yes | Yes | Yes | No | No |
| Glasgow | Yes | Yes | Yes | Yes | No |
| Highland | Yes | Yes | Yes | Yes | Yes |
| Inverclyde | Yes | Yes | Yes | No | No |
| Midlothian | No | No | Yes | No | No |
| Moray | No | Yes | Yes | Yes | No |
| North Ayrshire | Yes | Yes | Yes | No | Yes |
| North Lanarkshire | Yes | Yes | Yes | Yes | No |
| Orkney Islands | Yes | Yes | Yes | No | Yes |
| Perth and Kinross | Yes | Yes | Yes | Yes | Yes |
| Renfrewshire | Yes | No | Yes | Yes | No |
| Scottish Borders | Yes | Yes | Yes | No | No |
| Shetland Islands | No | Yes | Yes | Yes | Yes |
| South Ayrshire | Yes | Yes | Yes | Yes | No |
| South Lanarkshire | Yes | No | Yes | Yes | No |
| Stirling | Yes | Yes | Yes | No | No |
| West Dunbartonshire | Yes | Yes | Yes | No | No |
| West Lothian | Yes | Yes | Yes | Yes | Yes |
| Total yes | 28 | 27 | 32 | 14 | 13 |

Local authority composting

In 2003/2004, a total of 113,943 tonnes of waste collected by, or on behalf of, Scottish local authorities was composted. The majority of the waste sent for composting was green waste (89,773 tonnes), with the remainder being mixed organic waste and mixed municipal waste (24.170 tonnes). A total of 14.209 tonnes (12.5% of the total waste composted) was sent for composting outside the local authority in which it was collected. Most of the waste sent for composting originated from kerbside collections of green waste, civic amenity sites, and local authority parks and gardens.

Composting can involve a weight loss. The tonnages in this section refer to the weight of the waste that was composted rather than the weight of material resulting from the composting process. No waste collected for composting in 2003/2004 was disposed of, but certain local authorities used some of the material resulting from composting as daily cover for landfill. This is considered as disposal, and, for these local authorities, the weight of this material has been subtracted from the figure for waste sent for composting. Table 12 details the tonnages of the waste collected for composting by, or on behalf of, local authorities and the councils' composting rates expressed as a percentage of total municipal waste collected.

Table 12 - Waste collected for composting by, or on behalf of, Scottish local authorities 2003/2004

| | | Percentage | | | | |
|-----------------------|-----------|------------|------------|---------------|---------|-----------|
| | | Other | | | | |
| Local authority | Household | Commercial | Industrial | non-household | Total | composted |
| Aberdeen | 2,631 | 0 | 0 | 0 | 2,631 | 2.0 |
| Aberdeenshire | 8,072 | 0 | 0 | 0 | 8,072 | 5.6 |
| Angus | 3,803 | 1,268 | 0 | 0 | 5,071 | 6.7 |
| Argyll and Bute | 76 | 19 | 0 | 0 | 95 | 0.2 |
| Clackmannanshire | 69 | 10 | 0 | 0 | 79 | 0.2 |
| Dumfries and Galloway | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Dundee | 2,872 | 206 | 0 | 0 | 3,078 | 3.2 |
| East Ayrshire | 551 | 0 | 0 | 0 | 551 | 0.7 |
| East Dunbartonshire | 2,057 | 0 | 0 | 0 | 2,057 | 3.0 |
| East Lothian | 2,580 | 235 | 0 | 0 | 2,815 | 4.4 |
| East Renfrewshire | 2,935 | 0 | 0 | 0 | 2,935 | 5.0 |
| Edinburgh | 4,342 | 1,631 | 0 | 0 | 5,973 | 2.3 |
| Eilean Siar | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Falkirk | 3,196 | 0 | 0 | 0 | 3,196 | 2.9 |
| Fife | 6,880 | 1,700 | 0 | 0 | 8,580 | 3.4 |
| Glasgow | 4,992 | 4,071 | 0 | 0 | 9,063 | 2.5 |
| Highland | 2,749 | 0 | 0 | 0 | 2,749 | 1.8 |
| Inverclyde | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Midlothian | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Moray | 1,766 | 441 | 0 | 0 | 2,207 | 3.3 |
| North Ayrshire | 9,351 | 0 | 0 | 0 | 9,351 | 11.3 |
| North Lanarkshire | 8,801 | 0 | 0 | 0 | 8,801 | 4.5 |
| Orkney Islands | 803 | 11 | 0 | 0 | 814 | 6.2 |
| Perth and Kinross | 5,978 | 1,379 | 0 | 0 | 7,357 | 7.7 |
| Renfrewshire | 3,286 | 0 | 0 | 0 | 3,286 | 3.0 |
| Scottish Borders | 684 | 0 | 0 | 0 | 684 | 1.0 |
| Shetland Islands | 0 | 0 | 0 | 0 | 0 | 0.0 |
| South Ayrshire | 1,485 | 5,722 | 0 | 0 | 7,207 | 8.3 |
| South Lanarkshire | 9,014 | 0 | 0 | 0 | 9,014 | 5.1 |
| Stirling | 2,135 | 414 | 0 | 0 | 2,549 | 4.3 |
| West Dunbartonshire | 0 | 0 | 0 | 0 | 0 | 0.0 |
| West Lothian | 3,347 | 123 | 0 | 2,258 | 5,728 | 5.4 |
| Total | 94,455 | 17,230 | 0 | 2,258 | 113,943 | 3.4 |

^{*} Does not include any material where the compost produced was used as daily cover at a landfill site

[†] Tonnages refer to the weight of the waste composted and not the weight of material resulting from the composting process

Local authority composting initiatives

In 2003/2004, 26 of the 32 Scottish local authorities used centralised composting schemes. Twenty-five of the local authorities had a bring (drop-off) collection scheme operating in their area and 20 had a kerbside collection scheme for waste for composting. Table 13 details the composting initiatives in each Scottish local authority in 2003/2004.

Table 13 - Local authority composting initiatives in Scotland 2003/2004

| Local authority | Centralised composting | Home composting containers distributed to households | Kerbside collection of household waste for composting | Bring (drop-off) composting collection |
|-----------------------|------------------------|---|--|--|
| Aberdeen | Yes | Yes | Yes | Yes |
| Aberdeenshire | Yes | Yes | No | Yes |
| Angus | Yes | No | No | Yes |
| Argyll and Bute | Yes | Yes | No | Yes |
| Clackmannanshire | No | Yes | Yes | Yes |
| Dumfries and Galloway | Yes | Yes | No | Yes |
| Dundee | Yes | No | Yes | Yes |
| East Ayrshire | Yes | Yes | No | Yes |
| East Dunbartonshire | Yes | Yes | No | Yes |
| East Lothian | Yes | Yes | Yes | Yes |
| East Renfrewshire | Yes | Yes | Yes | Yes |
| Edinburgh | Yes | Yes | Yes | Yes |
| Eilean Siar | No | No | No | No |
| Falkirk | Yes | Yes | Yes | Yes |
| Fife | Yes | No | Yes | Yes |
| Glasgow | Yes | No | Yes | Yes |
| Highland | Yes | Yes | Yes | Yes |
| Inverclyde | No | Yes | No | No |
| Midlothian | No | No | No | No |
| Moray | Yes | Yes | No | Yes |
| North Ayrshire | Yes | No | Yes | Yes |
| North Lanarkshire | Yes | No | Yes | Yes |
| Orkney Islands | Yes | Yes | Yes | Yes |
| Perth and Kinross | Yes | Yes | Yes | Yes |
| Renfrewshire | Yes | No | Yes | Yes |
| Scottish Borders | Yes | Yes | Yes | No |
| Shetland Islands | No | Yes | No | No |
| South Ayrshire | Yes | Yes | Yes | Yes |
| South Lanarkshire | Yes | No | Yes | No |
| Stirling | Yes | Yes | Yes | Yes |
| West Dunbartonshire | No | Yes | No | No |
| West Lothian | Yes | No | Yes | Yes |
| Total yes | 26 | 21 | 20 | 25 |

Home Composting

Twenty-one local authorities reported that they had distributed containers for home composting to the public during 2003/2004. A total of 24,121 composters and 1,231 digesters were distributed. Most of these were provided either free of charge or on a subsidised basis. Local authorities have now distributed around 104,000 composters since council reorganisation in 1996.

Home composting is an important activity for waste prevention but it is difficult to quantify the tonnage of waste diverted from the waste stream. Local authorities were asked if they had carried out a survey to estimate the quantity of waste composted by residents at home. Four local authorities reported that they had. However, different survey methods were used to estimate the quantities composted, and therefore diverted, making the collation of results difficult.

Local Authority Quarterly Recycling/Composting Return

In April 2004, SEPA introduced a new quarterly survey, the Local Authority Quarterly Recycling/Composting Return, in order to collect data on the types and quantities of waste recycled and composted by Scottish local authorities. This new form is designed, amongst other things, to enable the monitoring of Scotland's progress towards reaching the targets for recycling and composting of municipal waste. The survey covers all waste and recyclate collected by, or on behalf of, local authorities apart from road maintenance waste, ELVs and waste from industrial sources. The results from the surveys are available on SEPA's website at www.sepa.org.uk/nws/data/index.htm

Non-Municipal Waste Recovery

Packaging and packaging waste

One of the key objectives of the EC Directive 94/62/EC on Packaging and Packaging Waste is to reduce the impact of packaging on the environment by requiring that specific proportions of packaging waste are to be recovered and recycled. The Directive was amended in 2002 and the following Common Position reached:

By 31 December 2008 all Member States should achieve:

- → a minimum of 60% recovery;
- → recycling of between 55% and 80%; and
- → differentiated material specific recycling targets of paper 60%, glass 60%, metals 50%, plastic 22.5% and wood 15%.

The UK has implemented the recovery and recycling element of the Directive through the Producer Responsibility Obligations (Packaging Waste) Regulations 1997 (as amended). These Regulations place recovery and recycling obligations on most companies that have a turnover exceeding £2 million and that handle more than 50 tonnes of packaging and packaging materials per year. Businesses that meet both thresholds are required to:

- → register annually with SEPA (or the appropriate agency) and submit data on packaging handled by the company in the previous year. Data should also include a statement of the company's recovery and recycling obligations as calculated using formulae given in the Regulations. An operational plan should be submitted if the company turnover is greater than £5 million;
- → take reasonable steps to meet specific recovery and recycling obligations;
- → submit a Certificate of Compliance and support this with evidence of compliance (i.e. evidence that the appropriate recovery and recycling has been carried out), and;
- → meet certain 'consumer information obligations' if the main activity of the company is 'seller'.

Alternatively they may join, and supply their data to, a compliance scheme that will meet the company's obligations on their behalf.

The Regulations are enforced in Scotland by SEPA, in England and Wales by the Environment Agency and, in Northern Ireland, by the Environment and Heritage Service. In 1999 and 2000, Wastepack was the only compliance scheme registered with SEPA, though less than 10% of the scheme members were Scottish companies. In 2001, SEPA also registered the Ecopak, Integra, Recyclepak and Valpak Scotland compliance schemes. All five compliance schemes were still registered with SEPA in 2003. Table 14 gives a breakdown of organisations registered with SEPA.

Table 14 - Registrations with SEPA 2003

| Organisation | Number of registrations |
|------------------------------------|-------------------------|
| Companies registered with SEPA | 105 |
| Members of SEPA registered schemes | 835 |
| Total registrations | 940 |

All data submitted by producers and schemes on packaging handled are aggregated to give total business recovery and recycling obligations for the UK. It is intended that the business recovery and recycling obligations are sufficient to enable the UK to meet the overall Directive target. The UK has to establish the amount of recovery that needs to take place to meet Directive targets and to ensure that the aggregate recovery and recycling obligation placed on producers and schemes is greater than or equal to that figure. Although the Directive targets did not take effect until June 2001, the relatively poor packaging recovery in the UK before the Regulations came into force resulted in the UK introducing interim targets during 1998, 1999 and 2000 to provide for a smooth build-up to the Directive targets.

Reprocessors or exporters of UK packaging waste carry out recovery and recycling of packaging waste. Most of these companies are accredited and monitored by SEPA or the Environment Agency. Accredited reprocessors and exporters may generate approved evidence of recovery and recycling in the form of Packaging Waste Recovery Notes (PRNs) or Packaging Waste Export Recovery Notes (PERNs). These are generated in respect of each tonne of packaging waste that is recovered or recycled. Obligated companies (producers) and compliance schemes can meet their recovery and recycling obligations by obtaining the correct amount and material type of Recovery Notes

The data held by SEPA consists of:

- → packaging handled by companies registered with SEPA together with their respective recovery and recycling obligations;
- → packaging handled by members of SEPA registered compliance schemes together with their respective recovery and recycling obligations; and
- → packaging waste reprocessed, PRNs/PERNs issued, and PRN/PERN revenue received by SEPA accredited reprocessors and exporters.

The nature of the regulatory regime means that it is not possible to report separately on Scottish data. Depending on the extent of a company's operations, packaging handled in Scotland, England and Wales is often the subject of a single data report that cannot be disaggregated into totals for the individual countries. Similarly, data on packaging waste reprocessed in Scotland may include packaging waste that has arisen in England and Wales. Much of the data given below relates to UK figures. Scotlish figures are provided with respect to packaging waste reprocessed in Scotland.

Table 15 gives the UK's recovery and recycling targets for 2003, while Table 16 details the recovery and recycling actually achieved in the UK in 2003. Table 17 shows the amounts of packaging waste reprocessed by SEPA accredited companies in 2003. A list of accredited reprocessors and exporters of packaging waste in Scotland in 2003 is given on the SEPA website at www.sepa.org.uk.

Waste Recovery

Table 15 - UK recovery and recycling targets 2003

| | Tor | nnes |
|-----------|-----------|-----------|
| Material | Recovery | Recycling |
| Paper | 1,916,781 | 617,268 |
| Glass | 1,103,818 | 355,467 |
| Aluminium | 74,643 | 24,037 |
| Steel | 357,915 | 115,261 |
| Plastic | 951,613 | 306,452 |
| Wood* | 472,055 | |
| Other* | 12,373 | |
| Total | 4,889,198 | 1,418,485 |

^{*} There is no material specific recycling target for wood and other packaging materials. Hence these are not included in the total recycling target

Table 16 – UK recovery and recycling achieved 2003

| Material | Tonnes |
|-----------------------|-------------|
| Paper* | 2,428,593 |
| Glass ⁺ | 861,948 |
| Aluminium | 31,831 |
| Steel | 304,520 |
| Plastic [†] | 321,205 |
| Wood | 756,842 |
| Total recycling | 4,704,939 |
| | |
| Energy from waste | 599,380 |
| Total recovery | 5,304,319 |
| Specific waste stream | 10,059,371§ |
| Recovery % | 52.73 |
| Recycling % | 46.77 |

^{*} Includes 659 tonnes of composting and 5,564 tonnes of alternative evidence

[†] Includes 42,314 tonnes alternative evidence glass recycled that fell outwith the PRN system

[‡] Figure was revised in the light of the findings of a fact-finding mission

[§] Includes 25,000 tonnes of 'other' packaging

Table 17 - Packaging waste reprocessed by SEPA accredited reprocessors and exporters in Scotland 2003

| | Ton | ines | |
|----------------------------|----------|--------------------------|----------------------------|
| Material | Accepted | Reporcessed/ exported | Total PRN/ PERNs issued |
| Reprocessed | | | |
| Paper | 231,264 | 231,261 | 225,917 |
| Plastic | 4,312 | 3,647 | 3,655 |
| Glass | 118,164 | 118,147 | 98,896 |
| Energy from waste – MSW | 18,068 | 18,068 | 8,756 |
| Wood | 87,735 | 87,735 | 85,928 |
| Wood composting | 439 | 439 | 106 |
| Paper composting | 147 | 147 | 125 |
| Total reprocessed | 460,129 | 459,444 | 423,383 |
| Exported | | | |
| Paper | 93,800 | 93,800 | 25,019 |
| Plastic | 63 | 63 | 0 |
| Steel | 12,347 | 12,347 | 6,376 |
| Aluminium | 161 | 161 | 161 |
| Total exported | 106,371 | 106,371 | 31,556 |
| Total reprocessed/exported | 566,500 | 565,815 | 454,939 |

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Hazardous and special wastes

In 2003/2004, 35 waste management sites were licensed to treat special waste in Scotland. In addition, seven sites permitted under the IPC Regulations treated special waste. A total of 201,551 tonnes of special waste was consigned to treatment plants in Scotland in 2003 (this included 19,500 tonnes sent for incineration). A breakdown of the waste by EWC short code and waste strategy area (WSA) is given in Table 18.

Table 18 - Special waste consigned to treatment plants in Scotland 2003

| | W + + + FWO ++ (T -) | | | | | | | | | | |
|---------------------------------------|-----------------------|--|----|----|-------|-------|--------|-------|----|-----|-------|
| Waste | | Waste type by EWC code ⁺ (Tonnes) | | | | | | | | | |
| stategy area* | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 80 | 09 | 10 | 11 |
| Orkney and Shetland | 24,165 | 0 | 0 | 0 | 12 | 0 | 0 | 8 | 0 | 38 | 0 |
| Western Isles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Highland | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North East | 45,712 | 54 | 11 | 0 | 784 | 1,006 | 23 | 299 | 61 | 7 | 8 |
| Tayside | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 1 | 0 | 0 | 0 |
| Forth Valley | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fife | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lothians and Borders | 0 | 16 | 0 | 0 | 624 | 27 | 9,218 | 135 | 0 | 0 | 0 |
| Ayrshire, Dumfries and Galloway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glasgow and Clyde Valley | 157 | 11 | 87 | 1 | 651 | 3,289 | 5,854 | 1,999 | 23 | 226 | 5,198 |
| Argyll and Bute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scotland | 70,050 | 81 | 98 | 1 | 2,089 | 4,322 | 15,096 | 2,442 | 84 | 271 | 5,205 |

| Waste | Waste type by EWC code⁺ (Tonnes) | | | | | | | | | | |
|---------------------------------------|----------------------------------|--------|-------|-------|--------|-----|-----|-----|-------|---------|---------|
| stategy area* | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Unknown | Total |
| Orkney and Shetland | 0 | 1,995 | 0 | 30 | 162 | 119 | 0 | 1 | 3 | 0 | 26,534 |
| Western Isles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Highland | 0 | 1,256 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,272 |
| North East | 107 | 24,822 | 149 | 2,463 | 12,397 | 488 | 245 | 276 | 520 | 18 | 89,451 |
| Tayside | 0 | 6,602 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 6,683 |
| Forth Valley | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fife | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lothians and Borders | 0 | 0 | 126 | 9 | 19 | 30 | 0 | 0 | 63 | 0 | 10,268 |
| Ayrshire, Dumfries and Galloway | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Glasgow and Clyde Valley | 927 | 43,233 | 902 | 72 | 2,901 | 127 | 357 | 478 | 850 | 0 | 67,344 |
| Argyll and Bute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scotland | 1,034 | 77,908 | 1,177 | 2,575 | 15,478 | 764 | 665 | 755 | 1,437 | 18 | 201,552 |

- * A map showing WSAs and their constituent local authorities is presented in Appendix V
- † EWC codes (see Appendix III)
- 01 Mining and minerals
- 02 Agricultural and food production
- 03 Wood and paper production
- 04 Leather and textile production
- 05 Petrol, gas and coal refining/ treatment
- 06 Inorganic chemical processes
- 07 Organic chemical processes
- 08 Paints, varnish, adhesive and inks
- 09 Photographic industry
- 10 Thermal process waste (inorganic)
- 11 Metal treatment and coating processes
- 12 Shaping/treatment of metals and plastics
- 13 Oil and oil/water mixtures
- 14 Solvents

- 15 Packaging, cloths
- 16 Not otherwise specified
- 17 Construction and demolition waste and asbestos
- 18 Health care
- 19 Waste/water treatment and water industry
- 20 Municipal and similar commercial wastes

Imports and exports of hazardous waste

Council Regulation (EEC) No. 259/93, the Waste Shipments Regulation, governs the supervision and control of shipments of waste within the EU, imports to and exports from the EU, and transit shipments through the EU². SEPA is the competent authority for transfrontier shipments of waste into and out of Scotland.

Different requirements apply in relation to the destination of the waste shipment and whether the waste is destined for recovery or disposal. The degree of hazard associated with the waste is also significant with respect to shipments destined for recovery. In general, red and amber list wastes are considered hazardous and green list wastes are considered non-hazardous. Annexes III and IV of Council Regulation (EEC) No. 259/93 provide details of substances designated as either amber or red list wastes.

The data presented in this section relate to the transfrontier shipment of amber list wastes imported into and exported from Scotland for recovery. From transfrontier shipment movements notified to SEPA in 2003, 11,319 tonnes of amber list wastes were imported into Scotland for recovery and 841 tonnes was exported from Scotland for recovery. No red list waste transfrontier shipment movements were notified to SEPA during 2003.

Breakdowns of the total quantity of amber list wastes imported into Scotland in 2003 by waste type and recovery code are presented in Tables 19 and 20 respectively. The corresponding data for amber list wastes exported from Scotland in 2003 are presented in Tables 21 and 22.

Table 19 - Amber list wastes imported into Scotland for recovery 2003

| Waste type | Tonnes | 0/0 |
|--------------------------|----------|-------|
| Non-halogenated solvents | 11,297.1 | 99.8 |
| Toluene/kerosene | 21.9 | 0.2 |
| Total | 11,319.0 | 100.0 |

Table 20 - Recovery codes for amber list wastes imported into Scotland 2003

| Recovery code* | Tonnes | 0/0 |
|--|----------|-------|
| R1 ⁺ , R2 ⁺ , R13 ¹ | 11,319.0 | 100.0 |
| Total | 11,319.0 | 100.0 |

- * Recovery codes from Annex II.B to Council Directive 75/442/EEC
- † R1 Use principally as a fuel or other means to generate energy
- † R2 = Solvent reclamation/regeneration
- ¶ R13 = Accumulation of material intended for any operation numbered R1 to R12

Table 21 – Amber list wastes exported from Scotland for recovery 2003

| Waste type | Tonnes | % |
|------------------------------------|--------|-------|
| Chlorofluorocarbon (CFC) equipment | 780.5 | 92.9 |
| Catalyst | 60.0 | 7.1 |
| Total | 840.5 | 100.0 |

Table 22 – Recovery codes for amber list wastes exported from Scotland 2003

| Recovery code* | Tonnes | % |
|-----------------|--------|-------|
| R4 ⁺ | 840.5 | 100.0 |
| Total | 840.5 | 100.0 |

 $^{^{\}ast}$ Recovery codes from Annex II.B to Council Directive 75/442/EEC

[†] R4 = Recycling/reclamation of metals and metal compounds



Waste Disposal

Local Authority Waste Disposal

Local Authority Disposal to Landfill

Local Authority Energy Recovery

Incineration and Thermal Treatment Plants

Waste Management Licence Facility Disposals



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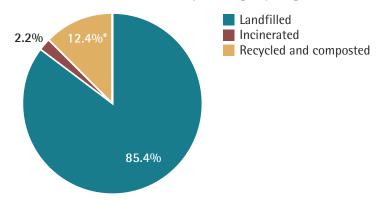
30

Local Authority Waste Disposal

In 2003/2004, a total of 3.32 million tonnes of waste was collected by, or on behalf, of local authorities of which 88% (2.90 million tonnes) were sent for disposal and 12% (0.42 million tonnes) were recycled or composted. In 2002/2003, 90% of waste collected was disposed of, 8% was recycled or composted, and 2% was treated by other methods.

Of the waste sent for disposal in 2003/2004, 2.83 million tonnes were disposed of to landfill and 0.07 million tonnes were sent for energy recovery. Figure 3 shows the relative proportions of waste handled by different waste management methods.

Figure 3 – Waste management methods used for waste collected by, or on behalf of, Scottish local authorities in 2003/2004 (percentage by weight)



* The recycling and composting rate of 12.4% differs from the rate of 12.1% given elsewhere in the Digest. This is because it includes ELVs, which are excluded in the other figure to ensure consistency with Audit Scotland

Table 23 shows the total amount of controlled waste disposed of by each local authority and the disposal methods used in 2003/2004.

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Waste Disposal

Table 23 - Total controlled waste disposed of by, or on behalf of, Scottish local authorities 2003/2004

| | Total Waste Disposed | Landfill wit recovery | | Landfill without recovery | | | with energy (tonnes) ⁺ |
|---------------------|----------------------------|-----------------------|---------|---------------------------|---------|--------|--------------------------------------|
| Local authority | (tonnes) | Within | Outwith | Within | Outwith | Within | Outwith |
| Aberdeen | 121,000 | 0 | 121,000 | 0 | 0 | 0 | 0 |
| Aberdeenshire | 125,685 | 0 | 2,915 | 122,770 | 0 | 0 | 0 |
| Angus | 55,499 | 39,936 | 0 | 0 | 0 | 0 | 15,563 |
| Argyll and Bute | 56,836 | 0 | 16,036 | 40,800 | 0 | 0 | 0 |
| Clackmannanshire | 33,938 | 0 | 0 | 33,938 | 0 | 0 | 0 |
| Dumfries | 88,289 | 0 | 0 | 88,289 | 0 | 0 | 0 |
| Dundee | 74,972 | 0 | 35,781 | 0 | 0 | 39,191 | 0 |
| East Ayrshire | 75,811 | 75,811 | 0 | 0 | 0 | 0 | 0 |
| East Dunbartonshire | 57,642 | 0 | 0 | 0 | 57,642 | 0 | 0 |
| East Lothian* | 54,628 | 54,626 | 0 | 0 | 0 | 0 | 0 |
| East Renfrewshire | 46,155 | 0 | 41,928 | 0 | 4,227 | 0 | 0 |
| Edinburgh | 231,300 | 0 | 0 | 0 | 231,300 | 0 | 0 |
| Eilean Siar | 19,664 | 0 | 0 | 19,664 | 0 | 0 | 0 |
| Falkirk | 96,226 | 89,807 | 0 | 6,419 | 0 | 0 | 0 |
| Fife | 209,455 | 209,455 | 0 | 0 | 0 | 0 | 0 |
| Glasgow | 340,083 | 0 | 0 | 0 | 340,083 | 0 | 0 |
| Highland | 140,418 | 0 | 0 | 57,193 | 83,225 | 0 | 0 |
| Inverclyde | 48,494 | 0 | 48,494 | 0 | 0 | 0 | 0 |
| Midlothian | 51,422 | 0 | 0 | 51,422 | 0 | 0 | 0 |
| Moray | 54,870 | 0 | 0 | 54,865 | 5 | 0 | 0 |
| North Ayrshire | 65,911 | 63,272 | 22 | 2,617 | 0 | 0 | 0 |
| North Lanarkshire | 170,996 | 170,996 | 0 | 0 | 0 | 0 | 0 |
| Orkney Islands | 11,130 | 0 | 1,453 | 2,026 | 0 | 0 | 7,651 |
| Perth and Kinross | 77,715 | 0 | 0 | 76,216 | 0 | 0 | 1,499 |
| Renfrewshire | 99,178 | 0 | 91,787 | 4,108 | 3,283 | 0 | 0 |
| Scottish Borders | 60,972 | 0 | 0 | 40,358 | 20,614 | 0 | 0 |
| Shetland Islands* | 12,241 | 0 | 0 | 2,810 | 196 | 9,233 | 0 |
| South Ayrshire | 75,672 | 0 | 28,307 | 47,365 | 0 | 0 | 0 |
| South Lanarkshire | 147,175 | 0 | 61,835 | 0 | 85,340 | 0 | 0 |
| Stirling | 51,202 | 0 | 0 | 51,202 | 0 | 0 | 0 |
| West Dunbartonshire | 55,264 | 55,264 | 0 | 0 | 0 | 0 | 0 |
| West Lothian | 94,582 | 471 | 94,111 | 0 | 0 | 0 | 0 |
| Total | 2,904,425 | 759,638 | 543,669 | 702,062 | 825,915 | 48,424 | 24,713 |

^{*} East Lothian Council reported 2 tonnes of waste disposed using incineration without energy recovery outside the local authority area. Shetland Island Council reported 2 tonnes of waste receiving other treatment within the local authority area (oil burner)

[†] The quantity of waste incinerated does not include any residues recycled or landfilled

Local Authority Disposal to Landfill

In 2003/2004, a total of 2.83 million tonnes of waste collected by, or on behalf of, Scottish local authorities was disposed of to landfill. This was around 4% less than the 2.95 million tonnes of waste landfilled in 2002/2003.

Of the waste sent to landfill, 1.30 million tonnes were landfilled at sites having methane recovery and 1.53 million tonnes at sites with no methane recovery. Approximately half the waste landfilled by local authorities was landfilled within the area where it was produced; the rest was exported to other local authority areas for disposal.

The EC Landfill Directive (Council Directive 99/31/EC) aims to reduce as far as possible the negative effects of landfilling waste. The Directive sets targets and timescales for reducing the amount of biodegradable municipal waste (BMW) sent to landfill in the UK. Scotland also has a domestic target to reduce the landfilling of BMW collected by local authorities to 1.5 million tonnes by 2006. The trends in the disposal of BMW to landfills by local authorities are discussed in the final chapter.

Under the Landfill Allowance Scheme, each local authority will be allocated allowances which will convey the right to landfill a certain amount of BMW in a specified scheme year. SEPA will be the monitoring authority for the scheme and will maintain a register of landfill allowances used, banked, borrowed and traded by a local authority. A mass balance calculation will be used to determine the amount of BMW landfilled using a figure of 63% for the biodegradable content of municipal waste. The Landfill Allowance Scheme began in April 2005.

The amount of BMW sent to landfill in 2003/2004 has been calculated using the mass balance approach to give an indication of Scotland's current position with regard to the 2006 target. These data are shown in Table 24 by WSA.

Table 24 - Total amount of waste and BMW landfilled in 2003/2004 by WSA

| | Total waste landfilled | Total BMW landfilled* |
|---------------------------------|---------------------------|--------------------------|
| Waste Strategy Area | (tonnes) | (tonnes) |
| Orkney and Shetland | 6,485 | 3,397 |
| Western Isles | 19,664 | 13,114 |
| Highland | 140,418 | 89,509 |
| North East | 301,555 | 191,214 |
| Tayside | 151,933 | 95,214 |
| Forth Valley | 181,366 | 114,052 |
| Fife | 209,455 | 135,578 |
| Lothians and Borders | 492,902 | 309,692 |
| Ayrshire, Dumfries and Galloway | 305,683 | 190,643 |
| Glasgow and Clyde Valley | 964,987 | 612,154 |
| Argyll and Bute | 56,836 | 36,609 |
| Total | 2,831,285 | 1,791,175 |

^{*} The method used to calculate BMW landfilled is set out in the Landfill Allowance Scheme (Scotland) Regulations 2005, Interim Guidance issued by the Scottish Executive in May 2005.

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Waste Disposal

Local Authority Energy Recovery

There were two municipal waste incinerators recovering energy from waste operating in Scotland in 2003: one in Dundee and the other on the Shetland Islands. The Dundee facility was licensed to accept 150,000 tonnes of waste per year, including municipal waste, commercial and industrial waste, clinical waste and certain industrial combustible liquid waste. Clinical waste was limited to 15% of the total waste burned in any 12-month period and liquid wastes were limited to 5,000 tonnes in the same period. Energy in the form of electricity was produced by the plant and sold into the National Grid.

The Shetland facility was licensed to deal with a maximum of 26,000 tonnes of waste per year, including municipal waste, commercial and industrial waste (which, because of its nature or composition, is similar to domestic refuse), non-infectious clinical waste and certain types of sewage sludge. Clinical waste was limited to 200 tonnes per year. Waste heat from the facility was used in a district heating scheme.

Five local authorities reported that they had incinerated a total of 73,137 tonnes of waste at these facilities in 2003/2004. A breakdown of this figure is provided in Table 25.

Table 25 - Scottish local authority waste sent for incinerated with energy recovery 2003/2004

| | Incinerated with energy recovery (tonnes)* | | |
|-------------------|--|-------------------|--|
| Local authority | Within authority | Outside authority | |
| Angus | 0 | 15,563 | |
| Dundee | 39,191 | 0 | |
| Orkney Islands | 0 | 7,651 | |
| Perth and Kinross | 0 | 1,499 | |
| Shetland Islands | 9,233 | 0 | |
| Total | 48,424 | 24,713 | |

^{*} The quantity of waste incinerated does not include any residues recycled or landfilled

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Incineration and Thermal Treatment Plants

Many incinerators are not subject to the Waste Management Licensing Regulations 1994 (as amended) because they are regulated either under Integrated Pollution Control (under Part I of the Environmental Protection Act 1990) or the Pollution Prevention and Control (Scotland) Regulations 2000.

In addition to the two municipal waste incinerators, a number of other operational incinerators and thermal treatment plants dealt with commercial and industrial wastes in Scotland during 2003. Many handled only waste arising on-site and were designed to handle specific waste streams such as clinical waste, animal carcasses and other industrial wastes.

Waste Management Licence Facility Disposals

Licensed landfill sites are currently the primary route for the disposal of waste in Scotland.

The total amount of controlled waste sent to Scottish landfills in 2003 was 7.88 million tonnes. This is about 4% less than the 2002 total of 8.22 million tonnes. Waste disposal trends are considered in the final chapter. Of the waste disposed of to landfill in 2003, 51% was classified as mixed ordinary wastes and 42% as mineral wastes. A breakdown of the total amount of waste disposed of to landfill in 2003 for each WSA is given in Table 26.

Information on the types and quantities of special waste that were disposed of to landfill in 2003 is given in Table 27.

Landfill sites operate under a waste management licence issued by SEPA. By October 2007, however, all operational landfill sites in Scotland will be regulated under the Pollution Prevention and Control (PPC) regime controlled by the Landfill (Scotland) Regulations 2003. If sites are to continue operating after that date, they will have to obtain a PPC permit.

Under the Waste Management Licensing Regulations 1994 (as amended), holders of waste management licences are required to make returns to SEPA detailing the types and quantities of waste handled at their site. The data are reported to SEPA on a quarterly basis using the licensed/permitted site return form.

Until April 2004, licence holders were required to describe wastes on the site return form using the European Waste Catalogue – STAT (EWC-STAT) coding system. This system originates from Regulation (EC) No. 2150/2002 on Waste Statistics and is an aggregation of the European List of Wastes (commonly referred to in the UK as the European Waste Catalogue). The EWC-STAT system was designed for ease of reporting to the European Commission by grouping waste of a similar nature under generic headings. This is the system used to report the data in Table 26, which relates to 2003.

In April 2004, the use of the EWC-STAT coding system was replaced by a requirement for licence holders to use the six-digit EWC code to describe waste on licensed site returns to SEPA. This follows an amendment to the Environmental Protection (Duty of Care) Regulations 1991 by the Landfill (Scotland) Regulations 2003 which required the use of the six-digit EWC code to be used to describe waste on waste transfer notes from April 2003. Further information on the European Waste Catalogue is given in Appendices III and IV.

Waste recorded on special waste consignment notes is classified using EWC codes and special waste data in this section are therefore reported by EWC code.

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Waste Disposal

Table 26 – Controlled waste disposed of to landfill in Scotland 2003

| | | Waste type by EWC-STAT code (tonnes) | | | | | | | | | |
|---------------------------------------|-------------------------------------|--|----------------------------------|---------------------------------|---|-------------------------|---------------------------------|-----------------------------|--|--|--|
| Waste strategy area* | 1 Chemical compound wastes | 2 Chemical preparation wastes | 3 Other chemical wastes | 4 Radio- active wastes | 5 Health care and biological wastes | 6 Metallic wastes | 7 Non- metallic wastes | 8 Discarded equipment | | | |
| Orkney and Shetland | 4 | 0 | 92 | 0 | 12 | 463 | 232 | 5 | | | |
| Western Isles | 0 | 0 | 0 | 0 | 29 | 16 | 43 | 284 | | | |
| Highland | 0 | 0 | 0 | 0 | 19 | 99 | 4,047 | 269 | | | |
| North East | 1,082 | 0 | 20,662 | 0 | 0 | 0 | 15,028 | 0 | | | |
| Tayside | 0 | 0 | 1,651 | 0 | 491 | 647 | 8,279 | 223 | | | |
| Forth Valley | 131 | 278 | 12,283 | 0 | 518 | 10 | 9,852 | 5,526 | | | |
| Fife | 0 | 0 | 9,646 | 0 | 0 | 0 | 4,573 | 0 | | | |
| Lothians and Borders | 3 | 0 | 3,909 | 0 | 2,689 | 0 | 45,709 | 5,230 | | | |
| Ayrshire, Dumfries and Galloway | 0 | 0 | 9,222 | 0 | 0 | 63 | 11,409 | 3,749 | | | |
| Glasgow and Clyde Valley | 9 | 508 | 16,859 | 0 | 0 | 1,056 | 2,718 | 121 | | | |
| Argyll and Bute | 0 | 0 | 0 | 0 | 0 | 2,156 | 1,809 | 391 | | | |
| Scotland | 1,229 | 786 | 74,324 | 0 | 3,758 | 4,510 | 103,699 | 15,798 | | | |

| | | , | Waste type b | y EWC-STAT | code (tonnes |) | |
|---------------------------------------|--------------------------------------|-----------------------------------|-------------------------|-------------------------|---|---------|-----------|
| Waste strategy area* | 9 Animal and vegetal wastes | 10 Mixed ordinary wastes | 11 Common sludges | 12 Mineral wastes | 13 Solidified stabilised or vitrified waste | Uncoded | Total |
| Orkney and Shetland | 3,753 | 8,651 | 185 | 33,290 | 0 | 14,967 | 61,654 |
| Western Isles | 1,640 | 19,132 | 1,259 | 13,869 | 0 | 1,753 | 38,025 |
| Highland | 2,097 | 86,608 | 477 | 160,372 | 0 | 0 | 253,988 |
| North East | 13,417 | 410,958 | 0 | 182,760 | 52,701 | 81,064 | 777,672 |
| Tayside | 10,094 | 263,418 | 886 | 279,887 | 0 | 0 | 565,576 |
| Forth Valley | 4,516 | 426,000 | 3,618 | 99,876 | 2,258 | 0 | 564,866 |
| Fife | 3,956 | 254,932 | 1,867 | 507,272 | 0 | 0 | 782,246 |
| Lothians and Borders | 9,046 | 493,621 | 5,048 | 531,177 | 0 | 0 | 1,096,432 |
| Ayrshire, Dumfries and Galloway | 41,162 | 500,281 | 1,899 | 387,391 | 0 | 0 | 955,176 |
| Glasgow and Clyde Valley | 9,182 | 1,533,275 | 20,047 | 971,434 | 2,258 | 0 | 2,557,467 |
| Argyll and Bute | 2,567 | 52,228 | 1,215 | 166,569 | 0 | 0 | 226,935 |
| Scotland | 101,430 | 4,049,104 | 36,501 | 3,333,897 | 57,217 | 97,784 | 7,880,037 |

^{*} A map showing WSAs and their constituent local authorities is presented in Appendix V

Waste Disposal

In 2003, a total of 164,417 tonnes of special waste was consigned to landfill sites in Scotland. This is an increase of nearly 60,000 tonnes over the figure for 2002, but is more than explained by a rise of nearly 77,000 tonnes in the amount of soil (including excavated soil from contaminated sites), stones and dredging spoil disposed of. Much of this waste is believed to originate from large construction projects. Table 27 gives a breakdown of the special waste landfilled by EWC short code for each WSA.

Table 27 – Special waste consigned to landfill in Scotland 2003

| | 1 | | | | | | | | | | |
|---------------------------------|-------|--|----|----|-----|-----|-----|-----|----|-----|-----|
| | | Waste type by EWC code ⁺ (Tonnes) | | | | | | | | | |
| Waste strategy area* | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Orkney and Shetland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Western Isles | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Highland | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| North East | 1,044 | 0 | 0 | 0 | 174 | 29 | 0 | 14 | 0 | 0 | 0 |
| Tayside | 323 | 0 | 7 | 0 | 0 | 0 | 0 | 16 | 0 | 14 | 0 |
| Forth Valley | 46 | 15 | 2 | 0 | 236 | 5 | 110 | 3 | 0 | 459 | 196 |
| Fife | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lothians and Borders | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 |
| Ayrshire, Dumfries and Galloway | 0 | 0 | 0 | 0 | 0 | 37 | 87 | 53 | 0 | 0 | 0 |
| Glasgow and Clyde Valley | 647 | 0 | 47 | 0 | 399 | 677 | 128 | 203 | 0 | 54 | 1 |
| Argyll and Bute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scotland | 2,063 | 15 | 56 | 0 | 808 | 750 | 339 | 290 | 0 | 528 | 197 |

| | Waste type by EWC code ⁺ (Tonnes) | | | | | | | | | |
|---------------------------------|--|-------|----|-------|-----|---------|----|-------|-----|----------|
| Waste strategy area* | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Total |
| Orkney and Shetland | 0 | 7 | 0 | 0 | 33 | 54 | 0 | 0 | 0 | 95 |
| Western Isles | 0 | 70 | 0 | 0 | 0 | 113 | 0 | 0 | 0 | 186 |
| Highland | 0 | 0 | 0 | 0 | 17 | 283 | 0 | 0 | 1 | 302 |
| North East | 0 | 1,652 | 3 | 389 | 176 | 113 | 2 | 197 | 8 | 3,800 |
| Tayside | 4 | 231 | 0 | 407 | 2 | 7,872 | 0 | 117 | 4 | 8,997 |
| Forth Valley | 25 | 2,999 | 0 | 237 | 14 | 10,350 | 11 | 62 | 2 | 14,773 |
| Fife | 0 | 0 | 0 | 0 | 0 | 3,143 | 0 | 0 | 0 | 3,144 |
| Lothians and Borders | 0 | 7 | 0 | 0 | 37 | 16,622 | 1 | 0 | 0 | 16,680 |
| Ayrshire, Dumfries and Galloway | 21 | 329 | 5 | 49 | 0 | 2,006 | 4 | 21 | 4 | 2,616 |
| Glasgow and Clyde Valley | 214 | 1,523 | 18 | 385 | 98 | 102,289 | 8 | 6,838 | 277 | 113,805 |
| Argyll and Bute | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scotland | 264 | 6,818 | 26 | 1,468 | 377 | 142,845 | 25 | 7,234 | 295 | 164,398* |

- * A map showing WSAs and their constituent local authorities is presented in Appendix V
- † EWC codes (See Apendix III)
- 01 Mining and minerals
- 08 Paints, varnish adhesive and inks 09 Photographic industry
- 02 Agricultural and food production 03 Wood and paper production
- 10 Thermal process waste (inorganic)
- 04 Leather and textile production
- 11 Metal treatment and coating processes
- 05 Petrol, gas and coal refining/
- 12 Shaping/treatment of metals and plastics

treatment

- 13 Oil and oil/water mixtures
- 06 Inorganic chemical processes 07 Organic chemical processes
- 14 Solvents

- 15 Packaging, cloths
- 16 Not otherwise specified
- 17 Construction and demolition waste and asbestos
- 18 Health care
- 19 Waste/water treatment and water industry
- 20 Municipal and similar commercial

wastes

‡ Excludes 19 tonnes of waste that were not coded properly



Waste Related Operational Activities

Waste Management Authorisations

Registered brokers and carriers
Waste management licences by activity
Waste management licences related to special waste
Waste management licences related to recycling activit
Waste management licences related to disposal activity

Landfill site gas and leachate operational controls

Waste Management Regulation

Inspections of licensed waste management facilities Enforcement Fly-tipping



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Waste Related Operational Activities

Waste Management Authorisations

Registered brokers and carriers

With a few exceptions, carriers and brokers of waste must register with SEPA or the Environment Agency. Once registered, carriers and brokers may operate throughout the UK. Registration must be renewed every three years.

During 2003/2004, the total number of waste carriers registered in Scotland/Northern Ireland was 6,610.

Waste management licences by activity

Under Part II of the Environmental Protection Act 1990, waste management licences are required for keeping, treating and disposing of wastes. In Scotland these are issued by SEPA. Once a waste management licence has been issued by SEPA, the licence holder is responsible for the licensed activity and aftercare of the site until such time as SEPA accepts the surrender of the licence. In the case of landfill licences, the period of aftercare could be many years.

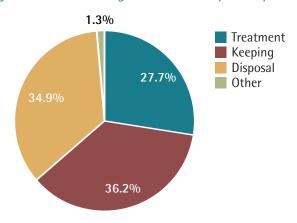
A total of 1,034 licences were in force during 2003/2004. A breakdown of these licences is given in Table 28 and Figure 4. This breakdown was obtained from the SEPA Waste Management Charging Scheme for the financial year 2003/2004. Details of the charging scheme can be found on SEPA's website at www.sepa.org.uk/charging/index.htm

Table 28 - Number of waste management licences by activity 2003/2004

| Activity | Number of licences |
|------------------------|--------------------|
| Treatment | |
| Recycling | 210 |
| Other | 76 |
| | |
| Keeping | |
| At civic amenity sites | 144 |
| For recycling | 48 |
| Other | 182 |
| Disposal | |
| Disposal – operational | 232 |
| Post-closure sites | 129 |
| Other | |
| Incinerators | 5 |
| Mobile plants | 8 |
| Total | 1,034 |

Waste Related Operational Activities

Figure 4 - Waste management licences by activity 2003/2004



Waste management licences related to special waste

There were 112 sites licensed to handle special waste in Scotland in 2003/2004. Table 29 provides a breakdown of this total by activity.

Table 29 - Number of waste management licences authorising the handling of special wastes 2003/2004

| Activity | Number of licences |
|-------------------------|--------------------|
| Treating | 35 |
| Keeping | 53 |
| Disposal – operational | 18 |
| Disposal – post-closure | 6 |
| Total | 112 |

Waste management licences related to recycling activity

In 2003/2004, there were 210 sites licensed to carry out recycling activities (see Table 30). The licensed capacity is the amount of waste that the site is licensed to handle annually.

Table 30 - Number of licensed recycling operations by licensed capacity 2003/2004

| Licensed capacity (tonnes) | Number of licences |
|----------------------------|--------------------|
| 75,000 and above | 17 |
| 25,000 to < 75,000 | 26 |
| 5,000 to < 25,000 | 42 |
| 0 to < 5,000 | 125 |
| Total | 210 |

Waste management licences related to disposal activity

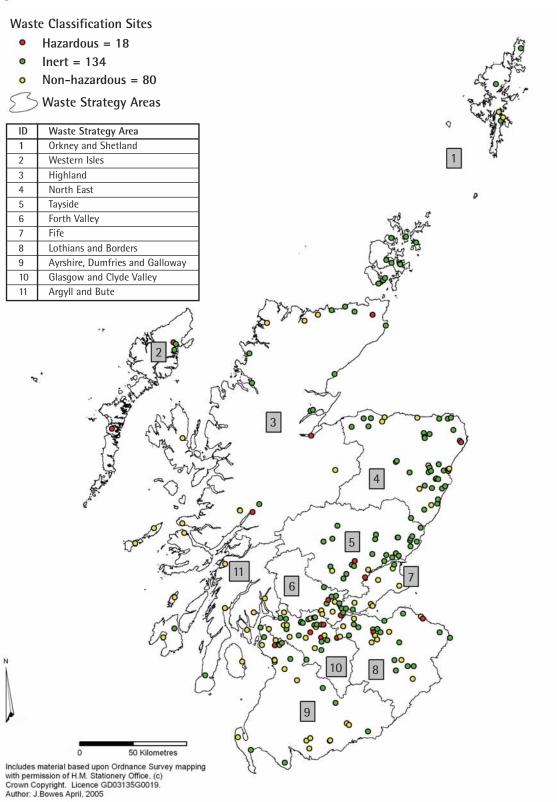
Landfill is by far the most common disposal route for municipal waste in Scotland, accounting for over 85% of the total waste disposed of in 2003/2004. The 232 landfill sites in operation during 2003/2004 form the principal network of disposal facilities and are shown on the map in Figure 5. A list of licensed sites in Scotland in 2003 is available on the SEPA website at www.sepa.org.uk.

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Waste Related Operational Activities

Figure 5 - Landfill sites in Scotland 2003/2004



Waste Related Operational Activities

Table 31 - Waste management licences for operational landfills by licensed capacity 2003/2004

| Licensed capacity (tonnes) | Number of licences |
|----------------------------|--------------------|
| 150,000 and above | 12 |
| 75,000 to < 150,000 | 47 |
| 25,000 to < 75,000 | 31 |
| 0 to < 25,000 | 142 |
| Total | 232 |

Post-closure landfill sites

Table 32 shows that 129 licensed sites had ceased landfilling waste and, in 2003/2004, were in their period of aftercare. Post-closure landfill sites are categorised in SEPA's waste management licence charging scheme according to the total weight of waste deposited at the site during its lifetime.

Table 32 – Number of waste management licences for post-closure landfill sites by total waste deposited 2003/2004

| Total waste deposited (million tonnes) | Number of licences |
|--|--------------------|
| 2.5 and above | 0 |
| 1 to < 2.5 | 16 |
| 0.25 to < 1 | 14 |
| 0 to < 0.25 | 99 |
| Total | 129 |

Landfill site gas and leachate operational controls

Landfill gas and/or leachate management is carried out at some of the larger landfill sites. During 2003, 85 sites undertook some form of gas management; the most common method was venting. Flaring or energy production took place at 25 sites. Leachate management was carried out at 64 sites. Recirculation was the most common method of management but aerobic treatment, waste stabilisation and other methods were also used. Table 33 gives a breakdown of the operational controls in place.

Table 33 - Gas and leachate operational controls at landfill sites 2003

| Operational controls* | Number of landfill sites |
|-------------------------------|--------------------------|
| | |
| Gas operational controls | |
| Energy production | 7 |
| Flaring | 18 |
| Venting | 60 |
| | |
| Leachate operational controls | |
| Recirculation | 23 |
| Aerobic treatment | 22 |
| Waste stabilisation | 3 |
| Other | 16 |

^{*} Some sites employed more than one method of gas or leachate control

Waste Related Operational Activities

Waste Management Regulation

Inspections of licensed waste management facilities

SEPA is required to undertake periodic inspections of all licensed facilities. In the year 2003/2004, SEPA staff made 6,530 planned inspections of waste management facilities.

Enforcement

Enforcement tools are available under the various regulatory regimes operated by SEPA. These range from warning letters to referrals to the Procurator Fiscal. Table 34 records the formal enforcement proceedings with respect to waste instigated by SEPA during 2003/2004.

Table 34 - Waste related enforcement activities 2003/2004

| Nature of enforcement | Number |
|--------------------------------|--------|
| Final warning letters | 77 |
| Enforcement notices issued | 54 |
| Referrals to procurator fiscal | 18 |
| Convictions secured | 7 |
| Total | 156 |

Fly-tipping

During the year, the Dumb Dumpers campaign was launched. This initiative, run by the Scottish Fly Tipping Forum, offers a Stop Line (0845 2 30 40 90), which anyone can call to report illegal waste dumping. The Scottish Fly Tipping Forum, whose members include SEPA, local authority representation, Keep Scotland Beautiful, land owners, the Scottish Executive and other interested bodies, was established as a result of a litter and fly tipping review by the Scottish Executive to develop a strategy for reducing the amount of fly tipping across Scotland.

In addition, SEPA fly tipping action plans were implemented in a number of areas during 2003/2004. Known sites were targeted, and enforcement and licensing action taken where appropriate. As a result, fly tipping in certain areas has reduced and remedial action has been taken at a number of sites.

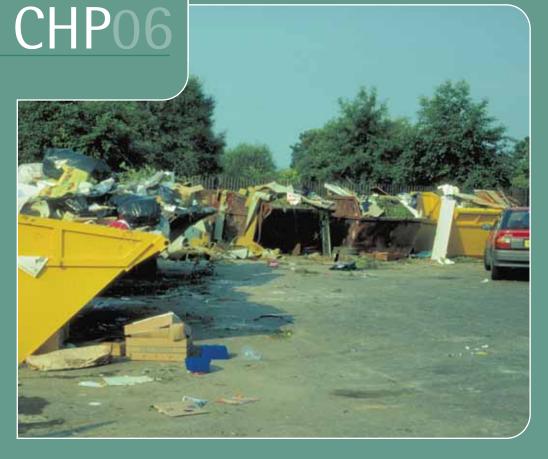
Local authorities were asked to provide separate tonnages (if known) for the clearance of fly-tipped material in the LAWAS 2003/2004. Eight of the 32 local authorities provided this information, which showed that 7,922 tonnes of fly-tipped material were cleared separately. However, most local authorities collect fly-tipped material as part of their mainstream collection rounds and were not able to provide separate tonnages. Therefore, it was not possible to obtain an accurate picture of the level of the fly-tipping problem in Scotland from these data.



Local Authority Waste Collection

Disposal of Waste to Landfill

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Local Authority Waste Collection

The total local authority waste arisings in 2003/2004 were 3.32 million tonnes. Since 1994 when 3.08 million tonnes was collected, there has been an increase of 7.8%, equating to an annual growth rate of about 0.85%. At this annual growth rate, total annual waste arisings in Scotland could increase to approximately 3.84 million tonnes by 2020.

In contrast, the amount of controlled waste disposed of by Scottish local authorities is starting to fall. Following a peak in 2001/2002 of 3.09 million tonnes, the quantity disposed of has fallen for two successive years and, in 2003/2004, was 2.90 million tonnes. It is too soon to be certain that this trend will continue but a continuing reduction looks possible.

The difference in trends can be explained by the increasing amount of waste being recycled and composted by Scottish local authorities. The total amount of waste recycled and composted rose from 93,400 tonnes in 1997 to 412,600 tonnes in 2003/2004, an increase of 342%. The recycling and composting rate of 3.1% in 1997 had increased to 12.1% by 2003/2004.

Figure 6 and Table 35 present the available data for controlled waste collected by, or on behalf of, Scottish local authorities for recycling, composting and disposal.

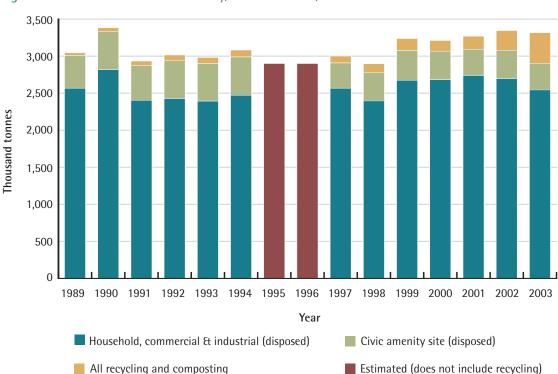


Figure 6 - Controlled waste collected by, or on behalf of, Scottish local authorities 1989-2003

Table 35 - Controlled waste collected by, or on behalf of, Scottish local authorities 1989-2003 (thousand tonnes)

| Waste type | 1989* | 1990* | 1991* | 1992* | 1993* |
|--|---------|---------|---------|---------|---------|
| Waste collected for disposal, of which: | | | | | |
| Household, commercial and industrial | 2,567.4 | 2,818.8 | 2,403.3 | 2,427.9 | 2,392.9 |
| Civic amenity | 441.7 | 510.6 | 466.5 | 515.2 | 507.1 |
| Total waste collected for disposal | 3,009.1 | 3,329.4 | 2,869.9 | 2,943.1 | 2,899.9 |
| Total waste collected for recycling and composting | 35.7 | 54.1 | 64.5 | 72.2 | 82.3 |
| Total local authority waste arisings | 3,044.8 | 3,383.5 | 2,934.4 | 3,015.2 | 2,982.3 |

| Waste type | 1994* | 1995⁺ | 1996 ⁺ | 1997 ⁺ | 1998 ⁺ |
|--|---------|-------|-------------------|-------------------|-------------------|
| Waste collected for disposal, of which: | | | | | |
| Household, commercial and industrial | 2,471.0 | n/k | n/k | 2,567.6 | 2,396.0 |
| Civic amenity | 518.1 | n/k | n/k | 340.0 | 385.7 |
| Total waste collected for disposal | 2,989.1 | n/k | n/k | 2,907.6 | 2,781.8 |
| Total waste collected for recycling and composting | 93.2 | n/k | n/k | 93.4 | 115.0 |
| Total local authority waste arisings | 3,082.3 | n/k | n/k | 3,001.0 | 2,896.8 |

| Waste type | 1999s | 2000/011 | 2001/021 | 2002/031 | 2003/041 |
|--|---------|----------|----------|----------|----------|
| Waste collected for disposal, of which: | | | | | |
| Household, commercial and industrial | 2,763.9 | 2,682.2 | 2,739.6 | 2,697.0 | 2,544.6 |
| Civic amenity | 402.1 | 384.6 | 351.6 | 381.7 | 359.9 |
| Total waste collected for disposal | 3,166.0 | 3,066.7 | 3,091.2 | 3,078.9 | 2,904.5 |
| Total waste collected for recycling and composting | 162.0 | 144.7 | 175.8 | 266.6 | 412.6 |
| Total local authority waste arisings | 3,328.0 | 3,211.4 | 3,267.0 | 3,345.5 | 3,317.1 |

- * 1989–1994 figures extracted from Table A1.2 of Scottish Office Bulletin 1994 (refers to 1989–1994 inclusive)
- † 1995–1996 figures are not known (n/k)
- † 1997–1998 figures are taken from the Databridge study by Environmental Resource Management (ERM) for SEPA and the Scottish Executive
- § 1999 figures are based on the National Waste Strategy Strategic Waste Management Baseline Assessments although further work was carried out to complete the dataset
- \P 2000/2001 to 2003/2004 figures are from the respective LAWAS

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Trends and Conclusions

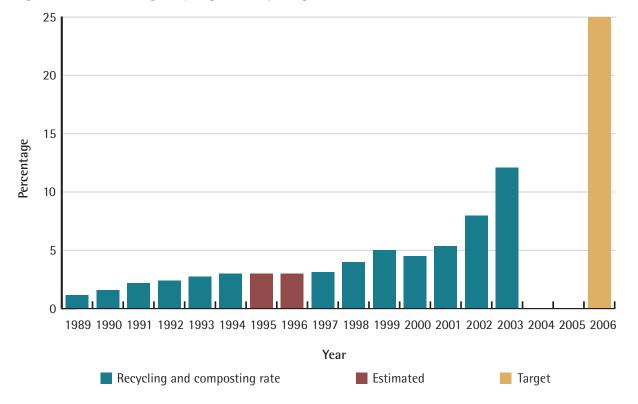
In *Building a Better Scotland* (2002), the Scottish Executive set an overall objective of ensuring progress towards sustainable management of Scotland's waste and achievement of European Union landfill reduction targets by 2010, 2013 and 2020. It also established two interim targets on municipal waste:

- → to increase the amount of waste collected by local authorities that is recycled or composted to 25% by 2006; and
- → to reduce landfilling of biodegradable waste collected by local authorities to 1.5 million tonnes per year by 2006.

The recycling and composting rate for Scottish local authorities was 12.1% in 2003/2004. This rate has risen significantly in the last two years (2002/2003 and 2003/2004) and preliminary data for the first three quarters of 2004/2005 indicate that this trend will continue. Despite this, 2003/2004 data suggest that local authorities need to double the quantity of waste they recycle and compost to meet the Scottish Executive's target.

Figure 7 shows the annual recycling and composting rate for the period 1989 to 2003/2004 compared with the Scottish Executive's target for 2006.

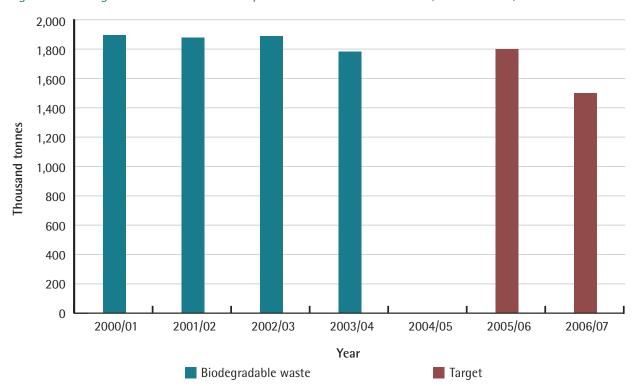
Figure 7 - Annual average recycling and composting rate for Scottish local authorities 1989-2003



The quantity of BMW landfilled by local authorities has dropped slightly over the last four years from 1.90 million tonnes in 2000/2001 to 1.79 million tonnes in 2003/2004. It is presently below the target for 2005/2006 but exceeds the target for 2006/2007 by 284,000 tonnes. To calculate the BMW in the years before 2003/2004, it has been assumed that 63% of the waste landfilled was biodegradable. A more accurate mass balance calculation has been used to provide the data for 2003/2004.

Figure 8 shows the quantity of biodegradable waste landfilled by Scottish local authorities compared with the Scottish Executive's target for 2005/2006 and 2006/2007.

Figure 8 - Biodegradable waste landfilled by Scottish local authorities 2000/2001 to 2003/2004



Disposal of Waste to Landfill

The total amount of controlled waste sent to Scottish landfills in 2003 was 7.88 million tonnes. Since 1994 there has been a clear downward trend in the quantity of waste being disposed of to landfill; the disposal tonnage for 2003 is less than half that for 1994, when 15.88 million tonnes of controlled waste were disposed of.

Part of the fall appears to be due to less construction and demolition (C&D) waste being disposed of over this period. A decline in the amounts of C&D waste going to landfill could reflect a reduction in the amount of C&D waste generated, an increase in the percentage of waste re-used or recycled, or an increase in unauthorised landfilling or fly tipping. For example, the landfill tax of £2 per tonne for inactive waste, introduced in October 1996, has encouraged producers to look for alternative uses for C&D waste. In addition, the Aggregates Levy, which began in April 2002, seeks to incorporate a range of environmental costs into the price of virgin aggregate and to encourage the use of alternative materials. The Levy, which was set at a rate of £1.60 per tonne on virgin aggregate commercially exploited in the UK, encourages the recycling of C&D wastes.

The landfill tax for active materials currently stands at £18 per tonne and will rise by £3 per tonne on the landfill tax escalator until it reaches a medium to long term figure of £35 per tonne. This will encourage alternatives routes to disposal for wastes.

The system for classifying the waste disposed changed in 2001 when operators were asked to use the EWC-STAT coding system. This is a more comprehensive system than the one used previously and gives a better breakdown of wastes deposited. However, the change means that it is not possible to make a direct comparison of individual categories of waste disposed of before and after 2001.

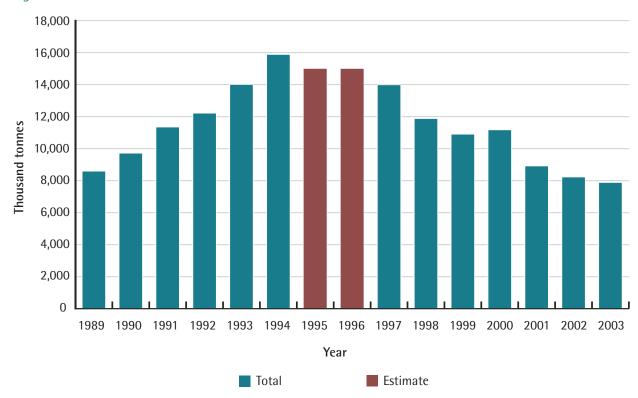
The Landfill (Scotland) Regulations 2003, which came into force in April 2003, enacted the requirements of the Landfill Directive (1999/31/EC) into Scottish law. Among its requirements are that:

- → landfills will only be able to take wastes that have been pre-treated;
- → specific wastes are banned from landfill, namely:
 - → liquid waste;
 - → explosive, corrosive, oxidising, highly flammable or flammable waste;
 - → infectious hospital and other clinical waste from medical or veterinary establishments;
 - → chemicals from research and development or teaching activities which are not identified and/or are new and whose effects are not known;
 - → whole used tyres by 2003 and shredded used tyres by 2006; and
 - → any other type of waste, which does not fulfil the waste acceptance criteria.

Although the Regulations only operated for part of 2003, changes in the wastes being disposed of at landfill sites can already be seen. Compared with the 2002 returns, the quantity of health care and biological wastes has fallen by 50% and the quantity of chemical and physical process wastes by 48%.

The total amounts of controlled wastes landfilled in Scotland from 1989 to 2003 are presented in Figure 9 and Table 36.

Figure 9 - Controlled waste landfilled in Scotland 1989-2003



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Table 36 - Controlled waste landfilled in Scotland 1989-2003 (thousand tonnes)

| Waste type | 1989* | 1990* | 1991* | 1992* | 1993* |
|--------------------|----------|----------|-----------|-----------|-----------|
| Household | 2,223.60 | 2,213.80 | 2,291.30 | 2,246.60 | 2,336.10 |
| Commercial | 1,948.90 | 1,437.00 | 1,667.50 | 1,733.80 | 1,790.60 |
| Industrial (total) | 4,412.90 | 6,058.80 | 7,384.50 | 8,229.40 | 9,862.10 |
| Other | - | - | - | - | - |
| EWC-STAT | - | - | - | - | - |
| Total | 8,585.40 | 9,709.60 | 11,343.30 | 12,209.80 | 13,998.80 |
| Industrial (C&D) | n/k | 3,709.00 | 5,217.90 | 4,847.30 | 6,714.60 |
| Industrial (other) | n/k | 2,349.70 | 2,166.60 | 3,382.10 | 3,147.50 |
| Industrial (total) | 4,412.90 | 6,058.80 | 7,384.50 | 8,229.40 | 9,862.10 |

| Waste type | 1995 ⁺ | 1996 ⁺ | 1997 ⁺ | 1998 ⁺ | 19991 |
|--------------------|-------------------|-------------------|-------------------|-------------------|-----------|
| Household | n/k⁵ | n/k | 2,698.00 | 2,990.90 | 2,888.90 |
| Commercial | n/k | n/k | 2,218.00 | 2,024.00 | 2,003.00 |
| Industrial (total) | n/k | n/k | 8,959.50 | 6,767.90 | 5,946.30 |
| Other | n/k | n/k | 103.1 | 90.7 | 57.9 |
| EWC-STAT | n/k | n/k | - | - | - |
| Total | 15,000.00 | 15,000.00 | 13,978.50 | 11,873.40 | 10,896.20 |
| Industrial (C&D) | n/k | n/k | 7,007.50 | 5,096.90 | 4,277.00 |
| Industrial (other) | n/k | n/k | 1,951.90 | 1,671.10 | 1,669.30 |
| Industrial (total) | n/k | n/k | 8,959.40 | 6,767.90 | 5,946.30 |

| Waste type | 20001 | 20011 | 20021 | 20031 |
|--------------------|-----------|----------|----------|----------|
| Household | 2,494.20 | 2,534.30 | n/a** | n/a** |
| Commercial | 1,574.00 | 691.1 | n/a | n/a |
| Industrial (total) | 7,006.60 | 2,757.30 | n/a | n/a |
| Other | 90.9 | 499.1 | n/a | n/a |
| EWC-STAT | - | 2,429.50 | n/a | n/a |
| Total | 11,165.70 | 8,911.20 | 8,219.80 | 7,880.00 |
| Industrial (C&D) | 3,952.60 | 2,175.90 | n/a | n/a |
| Industrial (other) | 3,054.00 | 581.4 | n/a | n/a |
| Industrial (total) | 7,006.60 | 2,757.30 | n/a | n/a |

^{* 1991–1994} figures extracted from Table A1.2 of Scottish Office Bulletin 1994 (refers to 1991–1994 inclusive)

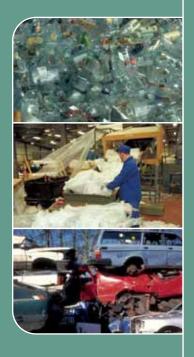
 $[\]ensuremath{^{\dagger}}$ 1995–1996 values are estimates. No specific data were available for these years

^{† 1997–1998} figures are taken from the Databridge study by Environmental Resource Management (ERM) for SEPA and the Scottish Executive

[§] Figures are not known (n/k)

^{¶ 1999–2003} SEPA waste management licensed site returns

^{**}n/a - cannot be derived from new coding system



Appendices

Appendix I - Glossary

Appendix II - Acronyms and Abbreviations

Appendix III - European Waste Catalogue List of Waste (EWC 2002)

Appendix IV - European Waste Catalogue - STAT (EWC-STAT)

Appendix V - Waste Strategy Area Map

Appendix VI - Accredited Reprocessors and Exporters of Packaging Waste 2003

Appendix VII - Licensed Sites in Scotland in 2003



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Glossary

| Biodegradable waste | Waste that is capable of undergoing anaerobic or aerobic decomposition, such as food or garden waste and paper and cardboard, i.e. waste that rots |
|-----------------------------------|--|
| Civic amenity site | Facility provided under Section 1 of the Refuse Disposal (Amenity) Act 1978 |
| Commercial waste | Waste arising from premises that are used wholly or mainly for trade, business, sport, recreation or entertainment, excluding household and industrial waste (as defined in Environmental Protection Act 1990, Section 75) |
| Composting | The controlled biological decomposition and stabilisation of biodegradable materials (such as organic garden and kitchen wastes) under predominantly aerobic (oxygen-rich) conditions to produce a humus rich, sanitised and stabilised product that can be beneficial to soil |
| Construction and demolition waste | Arising from the construction, repair, maintenance and demolition of buildings and structures. It mostly includes brick, concrete, hardcore, subsoil and topsoil, but it can also include quantities of timber, metal and plastics |
| Controlled waste | Household, industrial and commercial waste or any such wastes that require a waste management licence for treatment, transfer or disposal (as defined by Environmental Protection Act 1990, Section 75) |
| EC Directive | A European Community legal instruction which is binding on all Member States and must be implemented through the legislation of Member State governments within a prescribed timescale |
| Energy from waste (EfW) | The recovery of energy value from waste by burning the waste directly, or by burning a fuel produced from the waste |
| Gas controls | Methods to control the emission of methane from landfill sites |
| Green waste | 'Green and wood waste' means vegetable waste from gardens and parks, tree cuttings, branches, grass, leaves (with the exception of street sweepings), sawdust, wood chips and other wood waste not treated with heavy metals or organic compounds |
| Home composting | Compost can be made at home using a traditional compost heap, a purpose designed container or a wormery |
| Household waste | Waste from domestic properties including waste from caravans, residential homes and premises forming part of an educational establishment or part of a hospital or nursing home |
| Incineration | The controlled burning of waste, either to reduce its volume, or its toxicity |
| | |

Waste from a factory (within the meaning of the Factories Act 1961) or from any Industrial waste premises used for, or in connection with: → provision of public transport; → public supply of has, water, electricity or sewerage services; provision to the public of postal or communication services. **Integrated Pollution Control** Integrated Pollution Control (IPC) is a system established, under Part I of the Environmental Protection Act 1990 to control pollution from industry Kerbside collection Any regular collection of recyclable or compostable materials from premises. Excludes collection services delivered on demand Landfill sites Areas of land in or on which waste is deposited Leachate controls Methods to control the emission and quality of leachate from landfill sites **Material Reclamation** A facility to process wastes for the purpose of recovering useful materials using a variety of processes to separate out different materials, ranging from manual Facility (MRF) sorting to advanced mechanical separation techniques Mixed organic waste Waste for composting that includes both kitchen waste and garden waste Household waste and any other waste under the control of local authorities or Municipal waste their agents acting on their behalf Establishment of eleven Waste Strategy Groups across Scotland. The groups are **National Waste Strategy** charged with making the national strategy a reality at a local level, developing local solutions in response to local needs Packaging waste Comprises waste arising from 'all products made of any materials of any nature to be used to the containment, protection, handling, delivery and presentation of goods, from raw materials to processed goods, from the producer to the use or the consumer' as defined in Directive 94/62/EC on Packaging and Packaging Waste Recovery Generating value from wastes from a wide variety of activities such as recycling, composting and energy recovery Recyclables Materials that are capable of being recycled Recycling Using waste materials in manufacturing other products of an identical or similar nature, as defined by the Organisation for Economic Co-operation and Development in Strategic Waste Prevention(OECD, 2000) Registered waste broker Someone registered who makes arrangements on behalf of others to handle, transport, dispose or recover controlled waste, but does not handle, transport, dispose or recover the waste themselves Registered waste carrier Someone registered to transport controlled waste by road, rail, air, sea or inland waterways

| Reprocessor | A company that recycles materials. Only 'accredited reprocessors' can issue PRNs |
|--|--|
| Strategic Waste Management Baseline Assessment | An assessment and description of the existing waste management in an area. Examines wastes arisings, waste management facilities and capacities, imports and exports of waste, existing contract arrangements and demographics such as population and household numbers |
| Thermal treatment | A broad generic term covering processes that involve the use of heat to treat waste. Incineration is the most common thermal treatment process. Pyrolysis and gasification are other high temperature processes but there are also low temperature processes used, for example, in technologies producing refusederived fuel (RDF) |
| Transfer station | A site to which waste is delivered for sorting or compacting prior to transfer to another place for recycling, treatment or disposal |
| Waste | Any substance or object in the categories set out in Annex 1 of the Waste Framework Directive (91/156/EEC), which the holder discards or intends or is required to discard |
| Waste arisings | The amount of waste generated in a given locality over a given period of time |

Acronyms and Abbreviations

BMW biodegradable municipal waste

C&D construction and demolition waste

European Commission

EEC European Economic Community

EUVs end-of-life vehicles
EU European Union

EWC European Waste Catalogue

IPC Integrated Pollution Control

LAWAS Local Authority Waste Arisings Survey

MRF materials recycling facility or material reclamation facility

MSW municipal solid waste

PERN Packaging Waste Export Recovery Note

PRN Packaging Waste Recovery Note
PPC Pollution Prevention and Control

SEPA Scottish Environment Protection Agency

UK United Kingdom

WEEE waste electrical and electronic equipment

WML Waste Management Licence

WSA Waste Strategy Area

European Waste Catalogue List of Waste (EWC 2002)

The EWC List of Waste is a harmonised, non-exhaustive list of waste types, established by European Commission Decision 2000/532/EC, and will be periodically reviewed. It categorises wastes based on a combination of what they are and the process or activity that produces them.

It is divided into 20 chapters, most of which are industry-based, although some are based on materials and processes. Each chapter is represented by a two-digit code between 01 and 20 and comprises one or more subchapters. Each subchapter is represented by a four-digit code, the first two digits relate to the chapter, whilst the final two digits relate to the sub-chapter. Individual waste types are detailed in the subchapters and are assigned a six-digit code that comprises two digits for the chapter, two for the subchapter and two specific to the waste type.

Hazardous wastes are signified by entries where the EWC code is marked by an asterisk (*). Hazardous waste entries can also have a non-hazardous 'mirror entry', which will appear consecutively but one will be marked with an asterisk (*), normally with reference to 'containing dangerous substances', for example:

17 05 03* Soil and stones containing dangerous substances

17 05 04 Soil and stones other than those mentioned in 17 05 03

Chapters of the list

- 01 Wastes resulting from exploration, mining, quarrying, physical and chemical treatment of minerals
- **02** Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
- 03 Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
- 04 Wastes from the leather, fur and textile industries
- 05 Wastes from petroleum refining, natural gas purification and pyrolytic treatment of coal
- **06** Wastes from inorganic chemical processes
- **07** Wastes from organic chemical processes
- **08** Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks
- **09** Wastes from the photographic industry
- 10 Wastes from thermal processes
- 11 Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydrometallurgy
- 12 Wastes from shaping and physical and mechanical surface treatment of metals and plastics
- 13 Oil wastes and wastes of liquid fuels (except edible oils, 05 and 12)
- 14 Waste organic solvents, refrigerants and propellants (except 07 and 08)
- 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
- 16 Wastes not otherwise specified in the list
- 17 Construction and demolition wastes (including excavated soil from contaminated sites)
- 18 Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
- 19 Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
- 20 Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions

The full list can be found at: http://europa.eu.int/eur-lex/en/consleg/pdf/2000/en_2000D0532_do_001.pdf

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Appendix IV

European Waste Catalogue - STAT (EWC-STAT)

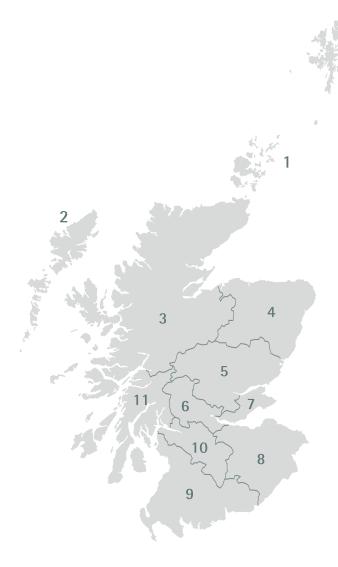
Regulation (EC) No. 2150/2002 of the European Parliament and of the Council of 25 November 2002 on Waste Statistics lays down the details of the type of information on waste that member states should transmit to the Commission as well as a number of definitions and classifications that must be observed. One of these classifications is EWC-STAT, a (mainly) substance oriented statistical classification of waste. EWC-STAT is an aggregation of the European List of Waste (LOW) for statistical purposes.

Commission Regulation (EC) No. 574/2004 of 23 February 2004 establishes a table of equivalence between the EWC-STAT and the list of waste established by Commission Decision 2000/532/EC. Full information can be found at: http://europa.eu.int/eur-lex/pri/en/oj/dat/2004/I_090/I_09020040327en00150047.pdf

The main categories from the table of equivalence are as follows:

- **01** Chemical compound wastes
- 02 Chemical preparation wastes
- 03 Other chemical wastes
- **04** Radioactive wastes
- **05** Health care and biological wastes
- **06** Metallic wastes
- 07 Non-metallic wastes
- 08 Discarded equipment
- 09 Animal and vegetal wastes
- 10 Mixed ordinary wastes
- 11 Common sludges
- 12 Mineral wastes
- 13 Solidified, stabilised or vitrified waste

Waste Strategy Area Map



Waste Strategy Areas and their Constituent Local Authorities

- 1 Orkney & Shetland
- 2 Western Isles
- 3 Highland
- 4 North East
 Moray, City of Aberdeen and Aberdeenshire
- 5 Tayside
 City of Dundee, Angus and Perth & Kinross
- 6 Forth Valley
 City of Stirling, Clackmannanshire and Falkirk
- 7 Fife
- **8** Lothian & Borders

City of Edinburgh, West Lothian, Midlothian, East Lothian and The Scottish Borders

- 9 Ayrshire, Dumfries & Galloway North Ayrshire, East Ayrshire, South Ayrshire and Dumfries and Galloway
- 10 Glasgow & Clyde Valley Inverclyde, Renfrewshire, East Renfrewshire, City of Glasgow, South Lanarkshire, North Lanarkshire, East Dunbartonshire and West Dunbartonshire
- 11 Argyll & Bute

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Accredited Reprocessors and Exporters of Packaging Waste 2003

Reprocessors accredited in 2003

| neprocessors accredited in 2005 | | | |
|--|---|--------------|-------------------|
| Name of company | Site | Registration | Principal |
| | | number | operation |
| A W Jenkinson Woodwaste Ltd | Carriden Industrial Estate, Bo'ness | SR2001327 | Wood |
| Adam Robertson & Co Ltd | Newcalder Paper Mill, West Lothian | SR199832 | Paper |
| Allglass Reprocessors Ltd | 49 Burnbrae Road, Linwood | SR2002387 | Glass |
| Armstrong Waste Management Ltd | Newton Road Industrial Estate, Dumfries | SR1998109 | Paper Composting |
| Armstrong Waste Management Ltd | Newton Road Industrial Estate, Dumfries | SR1998277 | Wood Composting |
| BPB Paperboard | Davidson Mill, Aberdeen | SR199831 | Paper |
| bpi.recycled products – Dumfries | College Road, Dumfries | SR199896 | Plastic |
| bpi.recycled products – Greenock | 96 Port Glasgow Road, Greenock | SR1998111 | Plastic |
| bpi.recycled products – Heanor | Heanor Gate, Derbyshire | SX199936 | Plastic Export |
| C K Polymers | Charlesfield Industrial Estate, St Boswells | SR2002357 | Plastic |
| Caledonian, Ferguson, Timpson | 5 Atholl Avenue, Glasgow | SR1998297 | Plastic |
| Christie & Son (Metal Merchants) | Lobnitz Dock, Renfrew | SX199926 | Steel Export |
| Comhairle Nan Eilean Siar | Bennadrove Landfill Site, Isle of Lewis | SR2001339 | Glass |
| Comhairle Nan Eilean Siar | Rueval Landfill Site, Benbecula | SR2003403 | Glass |
| Dobbies Garden Centres plc | Melville Nurseries, Lasswade | SR2002379 | Energy from waste |
| Dundee Energy Recycling Ltd | Forties Road, Dundee | SR1998235 | Energy from waste |
| Egger (Barony) Ltd | Former Barony Colliery, Auchinleck | SR2002380 | Wood |
| FBI Glasgow | PO Box 8, Troon | SX199933 | Paper Export |
| Independent Waste Paper Producers Ltd | Daventry, Northants | SX200118 | Paper Export |
| John Lawrie (Aberdeen) Limited | Forties Road, Montrose | SX199934 | Steel Export |
| John R Adam & Sons Limited | Riverside Berth, Glasgow | SX199927 | Steel Export |
| John R Adam & Sons Limited | Riverside Berth, Renfrew Road, Glasgow | SX199940 | Aluminium Export |
| John W Hannay & Co Ltd | Linwood Avenue, East Kilbride | SR199821 | Paper |
| M McKenzie | Old Pentland Sawmill, Midlothian | SR1998283 | Wood |
| Mac-Glass Recycling | Dalhousie Business Park, Bonnyrigg | SR1998112 | Glass |
| Nexfor Limited | Station Road, Stirling | SR1998238 | Wood |
| North East Pallet Services Ltd | East Tullos Industrial Estate, Aberdeen | SR2002390 | Wood |
| Plastic Polymer Processors Ltd | 12 Inchyra Road, Grangemouth | SR2001338 | Plastic |
| Plastic Technology Services Limited | Garroch Business Park, Dumfries | SR1998284 | Plastic |
| R M Supplies (Inverkeithing) Ltd | The Bay, Inverkeithing, Fife | SX199941 | Steel Export |
| Robert Cullen & Sons Limited | 10 Dawsholm Avenue, Glasgow | SR1998219 | Paper |
| Rockware Glass Ltd | Portland Plant, Ayrshire | SR1998126 | Glass |
| Shetland Amenity Trust | Cunningham Industrial Estate, Shetland | SR2003407 | Glass |
| Shetlands Islands Council | Greenhead, Lerwick, Shetland | SR1998261 | Energy from waste |
| Smith, Anderson & Company Ltd | Fettykil Mills, Leslie, Fife | SR1998113 | Paper |
| Snowie Limited | Lambhill Farm, Blairingone | SR2000300 | Paper Composting |
| Snowie Limited | Lambhill Farm, Blairingone | SR2000302 | Wood Composting |
| | | | |

Exporters accredited in 2003

| Name of company | Site | Registration number | Principal operation |
|---------------------------------|-------------------------------------|---------------------|---------------------|
| Solway Recycling Ltd | Rigghead Farm, Dumfries | SR2003406 | Plastic |
| Solway Recycling Ltd | Rigghead Farm, Dumfries | SX200113 | Plastic Export |
| Tracey Timber Recycling Limited | Burnbrae Road, Linwood | SR1998244 | Wood |
| United Glass Ltd | Glasshouse Loan, Alloa | SR1998114 | Glass |
| Vencel Resil Ltd | 160 East Wellington Street, Glasgow | SR199894 | Plastic |
| Viridor EnviroScot Limited | Langmuir Way, Glasgow | SR2002400 | Wood |
| Wastepack UK Limited | Pishiobury House, Hertfordshire | SX199929 | Plastic Export |

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| Licence Holder | Site | WML number | National grid reference |
|---|---|----------------|-------------------------|
| Landfill Sites *Licensed to accept spec | cial waste | | |
| *Alcan | Alcan, Lochaber Works | WML/N/50084 | NN125753 |
| *Binn Landfill (Glenfarg) Ltd | Binn Farm, Glenfarg | WML/E/00298 | NO178142 |
| *British Steel plc | Secure Containment Facility | WML/W/00024 | NS768578 |
| *Comhairle nan Eilean Siar | Bennadrove, Stornoway, Isle of Lewis | WML/N/50028(a) | NB386345 |
| *Comhairle nan Eilean Siar | Rueval, Isle of Benbecula | WML/N/50029(a) | NF811535 |
| *Highland Council | Longman, Inverness | WML/N/50036 | NH675469 |
| *Highland Council | Seater Landfill Site, Bower, By Wick | WML/N/50055 | ND248603 |
| *I & H Brown (Plant) Ltd | Battleby, Redgorton, Perth | WML/E/20131 | N0082295 |
| *Levenseat Ltd | Muldron Quarry, near Fauldhouse | WML/E/00047 | NS915575 |
| *Patersons of Greenoakhill Ltd | Greenoakhill, Glasgow | WML/W/00036 | NS666627 |
| *Shanks Avondale Ltd | Avondale Quarry, Polmont | WML/E/20170 | NS951787 |
| *Shanks Ltd | Greengairs, Airdrie | WML/W/00001 | NS789698 |
| *Shanks Ltd | Wester Hatton Landfill, Balmedie, Aberdeenshire | WML/N/20210 | NJ954152 |
| *Stirling Council | Lower Polmaise Landfill, By Fallin, Stirling | WML/E/20076 | NS834931 |
| *Stoneyhill Waste Management Ltd | Stoneyhill Quarry, Peterhead | WML/N/20183 | NK076409 |
| *Viridor Ltd | South Quarry, Oxwellmains, Dunbar | WML/E/00079 | NT720755 |
| *Waste Recycling Group Ltd | Oastslie (No 7) Sandpit, Roslin, Midlothian | WML/E/00097 | NT258626 |
| *William Tracey Limited | Barkip Landfill | WML/W/00005 | NS335505 |
| A & M Smith | Bankhead, Portlethen | WML/N/20143 | N0928996 |
| Aberdeenshire Council | Brandon Howe Landfill, Inverboyndie, Banff | WML/N/20020 | NJ667638 |
| Aberdeenshire Council | Crows Nest Landfill, Raemoir Road, Banchory | WML/N/20019 | N0688973 |
| Aberdeenshire Council | Pitdrichie Landfill, Drumlithie | WML/N/20021 | N0798819 |
| Aberdeenshire Council | Burnside Quarry, Leylodge, Kintore | WML/N/20065 | NJ774127 |
| Aberdeenshire Council | Govals Quarry, Lumsden | WML/N/20091 | NJ477232 |
| Aberdeenshire Council | Millmoss Landfill, Turriff | WML/N/20036 | NJ728493 |
| Aggregate Industries Plc | Upper Townhead Farm, Kintore | WML/N/20060 | NJ782170 |
| Aggregate Industries UK Ltd | Fledmyre, Montrose Road, Forfar (Site 2) | WML/E/00214 | NO487516 |
| Alcan Chemicals Europe | Whinneyhall Landfill, Burntisland | WML/E/00261 | NT248874 |
| Alexander Sandison & Sons Ltd | Hagdale Quarry, Baltasound, Shetland | WML/N/05001 | HP638101 |
| Andrew Cook (Containers) Ltd | Belliston Quarry, Arncroach | WML/E/00291 | NO498063 |
| Angus Council | Restenneth Landfill Site, Montrose Road, Forfar | WML/E/20140 | NO483515 |
| Argyll and Bute Council | Glengorm Landfill Site, Tobermory, Isle of Mull | WML/W/20045(a) | NM488558 |
| Argyll and Bute Council | Bonaveh Landfill Site, Isle of Colonsay | WML/W/20048 | NR398955 |
| Argyll and Bute Council | Cliad Landfill Site, Isle of Coll | WML/W/20046 | NM204602 |
| Argyll and Bute Council | Garetbreck Landfill Site, Bowmore, Isle of Islay | WML/W/20049 | NR291579 |
| Argyll and Bute Council | Gott Bay Landfill Site, Isle of Tiree | WML/W/20047 | NM028462 |
| Argyll and Bute Council | Ballygrant Quarry, Ballygrant | WML/W/0022027 | |

| Licence Holder | Site | WML number | National grid reference |
|---|--|----------------|-------------------------|
| Armstrong Waste Management Ltd | Auchenlosh Quarry, Dalbeattie (Phase II) | WML/W/00272 | NX853614 |
| Banchory Contractions Ltd | South Hirn, Crathes, Banchory | WML/N/20179 | NJ737002 |
| Bardon Aggregates | West Quarry, Charlestown | WML/E/00247 | NT065840 |
| Barr Ltd | Garlaff Quarry, Cumnock | WML/W/00238 | NS542176 |
| Barr Ltd | Site 5, Mid Auchencarroch Farm, Jamestown | WML/W/00021 | NS420813 |
| Barr Ltd | Clayshant, Sandhead | WML/W/00251 | NX110525 |
| Blue Circle Industries plc | North Quarry, Dunbar | WML/E/00073 | NT700775 |
| Booth Plant & Equipment Ltd | Tarbolton Moss Landfill Site, Tarbolton | WML/W/20006 | NS426283 |
| Borderland Reclamation Ltd | Meigle Potts, Clovenfords, By Galashiels | WML/E/20153 | NT453365 |
| British Petroleum | Caldback Ness, Sullom Voe | WML/N/50100 | HU403765 |
| Bruce Plant Hire | Arnhall Quarry, Edzell | WML/E/00225 | NO608697 |
| Bruce Plant Hire | Lochburn Quarry, Stonehaven | WML/N/20146 | N0854832 |
| Bruce Plant Hire | Ury Quarry, Stonehaven | WML/N/20148 | N0860874 |
| Bruce Plant Hire | Bedentoy Landfill,Portlethen, Aberdeen | WML/N/20190 | |
| Burnthills Demolition | Summerston Farm, Balmore Road, Glasgow | WML/W/00029 | NS581725 |
| C & S Smith | Drumsleed, Fordoun | WML/E/00226 | N0733777 |
| C A Duguid & Sons | Knapps of Thernie, Turriff | WML/N/20126 | NJ738446 |
| Chap Quarries (Aberdeen) Ltd | Park Quarry, Durris | WML/N/20044 | N0804979 |
| Clackmannanshire Council | Black Devon Landfill Site, Bowhouse Road, Alloa | WML/E/20023 | NS895913 |
| D Geddes (Contractors) Ltd | Ardownie Quarry, Monifieth | WML/E/00231 | NO493345 |
| D Geddes (Contractors) Ltd | Border Quarry, Leysmill, Froikheim | WML/E/00216 | NO600485 |
| D Geddes (Contractors) Ltd | Kinnell, Friockheim | WML/E/00218 | NO607503 |
| D Geddes (Contractors) Ltd | Lochaber, Arbroath | WML/E/00223 | N0604433 |
| D Geddes (Contractors) Ltd | Prettycur, Hillside, Montrose | WML/E/00217 | NO698608 |
| Dumfries & Galloway Council | Galdenoch, Leswalt, Stranraer | WML/W/20022(a) | NW988644 |
| Dumfries & Galloway Council | Locharmoss Waste Disposal Site, Dumfries | WML/W/20013 | NY007774 |
| Dumfries & Galloway Council | Blacks Plantation Landfill Site, Whithorn | WML/W/20024 | NX428406 |
| Dumfries & Galloway Council | Gatelawbridge Waste Disposal Site, Thornhill | WML/W/20018 | NX902965 |
| Dumfries & Galloway Council | St Mary's Street Disposal Site, Sanquhar | WML/W/20016 | NS782104 |
| Dumfries & Galloway Council | Corsehill Waste Disposal Site, Annan | WML/W/20008 | NY206697 |
| Dumfries & Galloway Council | Aucheninnes Landfill Site, Dalbeattie | WML/W/20020 | NX848609 |
| Dundee City Council | Longhaugh Landfill, Pitkerro Road, Dundee | WML/E/20081 | NO433329 |
| Dundee City Council | Riverside Landfill, Wright Avenue, Dundee | WML/E/20079(b) | NO360295 |
| E W G Dickey & Co | Kingsdale, Firth, Orkney | WML/N/50070 | HY378115 |
| E Bowman | Duisky-2, Kinlochiel | WML/N/50072 | NN009767 |
| East Ayrshire Council | Milton Landfill Site, Crookedholm, Kilmarnoc | kWML/W/20144 | NS480376 |
| East Coast Skips | Hope Quarry, Near Pathhead | WML/E/00092 | NT403630 |
| East of Scotland Water Authority | Upperside Quarry, Near Temple | WML/E/00085 | NT291559 |
| East of Scotland Water Authority | Broadside Reservoir, Denny | WML/E/00025 | NS769831 |
| East of Scotland Water Authority | Craggans Hill, Glenturret | WML/E/00299 | NN856243 |
| Easter Hatton Environmental (Waste Away) Ltd | Easter Hatton Farm, Balmedie | WML/N/20007 | NJ965157 |

| Licence Holder | Site | WML number | National grid reference |
|---|---|----------------|-------------------------|
| Easter Hatton Environmental (Waste Away) Ltd | Site 3, Easter Hatton Farm, Balmedie | WML/N/20195 | NJ967161 |
| Edgar Allan Ltd | Balbarnie Works, Whitburn Road, Bathgate | WML/E/00026 | NS974682 |
| Falkirk Council | Kinneil Kerse Landfill Site, Bo'ness | WML/E/20012 | NS975810 |
| Fife Council | Lochhead Landfill Site, By Wellwood, Fife | WML/E/20087 | NT080903 |
| Fife Council | Lower Melville Wood, By Ladybank, Fife | WML/E/20063 | N0300117 |
| G & F Milne | Bodychell Landfill, Memsie, Fraserburgh | WML/N/20118 | NJ954629 |
| G S Brown Construction Ltd | North Ballo Quarry | WML/E/00309 | N0247359 |
| Glasgow City Council | Kilgarth, Gartgill Road, Coatbridge | WML/W/00071 | NS719675 |
| Glasgow City Council | South Cathkin Landfill, East Kilbride | WML/W/20147 | NS624574 |
| Glasgow City Council | Summerston Landfill, Balmore Road, Glasgow | WML/W/20035 | NS579718 |
| GR Service Company | West Carron, Carron, Falkirk | WML/E/00015 | NS875820 |
| Henry Gilles Haulage Contractor | Drumshoreland Bing, Pumpherston | WML/E/00049 | NT074700 |
| Highland Council | Bettyhill Landfill, Bettyhill, Sutherland | WML/N/50059 | NC737603 |
| Highland Council | Granish Landfill, Aviemore | WML/N/20098 | NH900148 |
| Highland Council | Kilchoan Landfill Site, Kilchoan, Argyll | WML/N/50026 | NM469649 |
| Highland Council | Portree | WML/N/50051(b) | NG471447 |
| Highland Council | Rhiconich Landfill Site, Rhiconich, Sutherland | WML/N/50057 | NC262526 |
| Highland Council | Stoneyfield, Invergordon | WML/N/50003 | NH690713 |
| Highland Council | Tongue Landfill Site, Tongue, Sutherland | WML/N/50058 | NC612547 |
| Highland Council | Ardachu Landfill Site, Ardachu, Brora | WML/N/50044 | NC893047 |
| Highland Council | Brackletter | WML/N/50027(b) | NN190828 |
| Highland Council | Melvich Landfill Site, Melvich, Sutherland | WML/N/50060 | NC866645 |
| Highland Council | South Head, Wick Harbour, Wick | WML/N/50107 | ND372501 |
| Highland Council | Torbreck, Lochinver, Sutherland | WML/N/50047 | NC097241 |
| Highland Council | Ullapool Waste Transfer Station, Strathain, Ullapool | WML/N/50050(b) | NH122964 |
| Holt Drainage | Achscrabster Quarry, Thurso | WML/N/50086 | ND080633 |
| Howegarden Ltd | Hospital Wood, Auchterless, Turriff | BBDC/WML/31 | NJ735458 |
| International Paper (UK) Ltd | Inverurie Paper Mills, Broomend, Inverurie | WML/N/20063 | NJ770190 |
| J & A Plant Services in liquidation | Beithglass Quarry, Skelmorlie | WML/W/00073 | NS200672 |
| J & S Mackie | South House, Tankerness, Orkney | WML/N/50069 | HY507076 |
| J H Connon Ltd | Greendams, Newmachar, Aberdeenshire | WML/N/20068 | NJ868202 |
| J Haig Hamilton and Sons | West Fortune Landfill, North Berwick | WML/E/20152 | NT534801 |
| J M Kennie (Demolitions) Ltd | Auldcathie, Winchburgh | WML/E/00051 | NT075755 |
| J M Murdoch & Sons Ltd | East Capellie Farm Landfill, Neilston | WML/W/00126 | NS472583 |
| J D H Gordon, Esq | Railway Cutting, Whitehill Farm, St Boswells | WML/E/00010 | NT578310 |
| James Fairbairn | Lamberton Landfill, Berwick upon Tweed | WML/E/20197 | NT973575 |
| James Rae | Auchenstarry Farm, Kilsyth | WML/W/00068 | NS712765 |
| John Marshall & Son | Dalreoch Farm, Dunning | WML/E/00301 | N0003173 |
| Joss (Aberdeen) Ltd | Loch-hills Quarry, Parkhill, Dyce | WML/N/20062 | NJ914144 |
| King Contractors (Perth) Ltd | Huntingtower Quarry, Perth | WML/E/00304 | N0076247 |
| Kirkmyres Sand & Gravel | Balquhindachy Farm, Turriff | WML/N/20089 | NJ761486 |

| Kirkmyres Sand & Gravel Pitnacalder Quarry, New Aberdour WML/N/20117 NJ873628 Kirkton Barns Reclamation Account Kirktonbarns Landfill, Tayport WML/E/00295 NO452261 L H Spence & Sons Brackmont Mill, St Michaels, Leuchars WML/E/00286 NO437224 Laing House Gallowflats, Errol WML/E/00303 NO209213 Leiths Surfacing Ltd Home Farm, Kingswells, Aberdeen WML/N/20045 NJ863063 Les Taylor Contractors Ltd Boghead Farm, Kintore WML/N/20185 NJ795139 Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20186 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 11 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, Midlothian/WML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd West Staney Hill, Lerwick WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm Muirpark Farm, Tullibody, Clackmannanshire WML/E/00007 NT499532 Mardon Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/E/00003 NT117674 Mechtosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/E/20013 NN977130 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/0003 NN977130 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00007 NN789477 Messrs J & R Mitchell Pairrey Quarry, Auchterarder WML/E/0003 NN977130 Messrs McFadyenc Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/E/00047 NN72097 Midlothian Council Newtyle Landfill, Calcots Road, Elgin WML/E/0004 NN97130 Moray Council Newtyle Landfill, Rafford, Forres WML/E/0008 NNJ054552 | Licence Holder | Site | WML number | National grid reference |
|--|--|---|---------------|-------------------------|
| LH Spence & Sons Brackmont Mill, St Michaels, Leuchars WML/E/00286 N0437224 Laing House Gallowflats, Errol WML/E/00303 N0209213 Leiths Surfacing Ltd Home Farm, Kingswells, Aberdeen WML/N/20045 NJ863063 Les Taylor Contractors Ltd Boghead Farm, Kintore WML/N/20045 NJ795139 Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20186 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 1 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, Midlothian/WML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Baromouse Quarry, Renton Road, Dumbarton WML/E/00015 NS388761 M Et J Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/N/S0101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Jullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/2000 NK04524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK04524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK04524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK09544 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK09544 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK09544 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK095454 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK095454 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/2000 NK097720 McIntosh Plant Hire (Aberdeen) Ltd Cairdhi | Kirkmyres Sand & Gravel | Pitnacalder Quarry, New Aberdour | WML/N/20117 | NJ873628 |
| Laing House Gallowflats, Errol WML/E/000303 N0209213 Leiths Surfacing Ltd Home Farm, Kingswells, Aberdeen WML/N/20045 NJ863063 Les Taylor Contractors Ltd Boghead Farm, Kintore WML/N/20185 NJ795139 Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20186 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 11 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, Midlothian/WML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Dalreoch Quarry, Renton Road, Dumbarton WML/W/00015 NS388761 M &t J Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M &t Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/N/20003 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies & Partners Mains of Taymouth, Kenmor | Kirkton Barns Reclamation Account | Kirktonbarns Landfill, Tayport | WML/E/00295 | NO452261 |
| Leiths Surfacing Ltd Home Farm, Kingswells, Aberdeen WML/N/20045 NJ863063 Les Taylor Contractors Ltd Boghead Farm, Kintore WML/N/20185 NJ795139 Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20196 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 11 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, MidlothianWML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Dalreoch Quarry, Renton Road, Dumbarton WML/W/00015 NS388761 M &t J Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/20094 NJ8648423 Moray Council Nettle Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 Moray Council Nettle Dallachy Landfill, Sp | L H Spence & Sons | Brackmont Mill, St Michaels, Leuchars | WML/E/00286 | N0437224 |
| Les Taylor Contractors Ltd Boghead Farm, Kintore WML/N/20185 NJ795139 Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20196 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat I Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, MidlothianWML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Dalreoch Quarry, Renton Road, Dumbarton WML/W/00015 NS388761 M & J Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20006 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/N/20001 NJ847068 McSars D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00310 NN977130 Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/500124 NN007772 Midlothian Council Prummond Moor Landfill Site, Roslin, WML/N/20094 NJ361643 Moray Council Newtyle Landfill, Calcots Road, Elgin WML/N/20094 NJ361643 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | Laing House | Gallowflats, Errol | WML/E/00303 | N0209213 |
| Les Taylor Contractors Ltd Newton of Savoch, Longside, Peterhead WML/N/20196 NK066423 Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 11 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, MidlothianWML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Dalreoch Quarry, Renton Road, Dumbarton WML/W/00015 NS388761 M Et J Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M K Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20030 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/P/00310 NN977130 Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20095 NJ3361643 Moray Council Newtyle Landfill, Spey Bay, Moray WML/N/50038 NJ054552 | Leiths Surfacing Ltd | Home Farm, Kingswells, Aberdeen | WML/N/20045 | NJ863063 |
| Levenseat Ltd Torphin Quarry, Harburn, West Calder WML/E/00058 NT028597 Levenseat Ltd Levenseat 11 Landfill Site WML/E/20189 Lothian Recycling 1996 Ltd Pentland Mains Landfill, Damhead, Midlothian/WML/E/20145 NT254654 Luddon Construction Ltd Birdston Tip, Kirkintilloch WML/W/00048 NS649748 Luddon Construction Ltd East Mavis Valley, Bishopbriggs WML/W/00065 NS597714 Luddon Construction Ltd Dalreoch Quarry, Renton Road, Dumbarton WML/W/00015 NS388761 M & L Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M & Leslie Ltd West Staney Hill, Lerwick WML/N/50011 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00007 NT499532 Mardon Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead WML/N/2000 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20001 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Dhurrie Farm, Campbeltown, Argyll WML/W/20093 NS372514 Michael Bowman Duisky - 5, Fort William WML/W/20095 NJ234634 Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20095 NJ234634 Moray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 Moray Council Netyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | Les Taylor Contractors Ltd | Boghead Farm, Kintore | WML/N/20185 | NJ795139 |
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| Luddon Construction LtdBirdston Tip, KirkintillochWML/W/00048NS649748Luddon Construction LtdEast Mavis Valley, BishopbriggsWML/W/00065NS597714Luddon Construction LtdDalreoch Quarry, Renton Road, DumbartonWML/W/00015NS388761M & J BallantyneBroomhouse Quarry, MaxtonWML/E/00001NT633309M K Leslie LtdWest Staney Hill, LerwickWML/N/50101HU448422M Ridgeway, EsqRailway Cutting, Nether Howden Farm, Oxton WML/E/00007NT499532Mardon Plant Hire LtdHillhouse FarmWML/E/00053NT117674Marshall FarmsMuirpark Farm, Tullibody, ClackmannanshireWML/E/20171NS867961McIntosh Plant Hire (Aberdeen) LtdCairdhillock Landfill Site, Kingswells, AberdeenWML/N/20003NJ847068McIntosh Plant Hire (Aberdeen) LtdCairdhillock East, Kingswells, AberdeenWML/N/20206NK004524McIntosh Plant Hire (Aberdeen) LtdCairdhillock East, Kingswells, AberdeenWML/N/20201NJ840064McTaggart Construction LtdGiffenmill Railway Cutting, Barrmill, by Beith WML/W/20093NS372514Messrs D Menzies & PartnersMains of Taymouth, KenmoreWML/E/00307NN789477Messrs J & R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/N/50124NN007772Midlothian CouncilNether Dallachy Landfill, Spey Bay, MorayWML/ | Levenseat Ltd | Levenseat 11 Landfill Site | WML/E/20189 | |
| Luddon Construction LtdEast Mavis Valley, BishopbriggsWML/W/00065NS597714Luddon Construction LtdDalreoch Quarry, Renton Road, DumbartonWML/W/00015NS388761M Et J BallantyneBroomhouse Quarry, MaxtonWML/E/00001NT633309M K Leslie LtdWest Staney Hill, LerwickWML/N/50101HU448422M Ridgeway, EsqRailway Cutting, Nether Howden Farm, Oxton WML/E/00007NT499532Mardon Plant Hire LtdHillhouse FarmWML/E/00053NT117674Marshall FarmsMuirpark Farm, Tullibody, ClackmannanshireWML/E/20171NS867961McIntosh Plant Hire (Aberdeen) LtdCairdhillock Landfill Site, Kingswells, AberdeenWML/N/20003NJ847068McIntosh Plant Hire (Aberdeen) LtdLeys Quarry, Mintlaw, PeterheadWML/N/20206NK004524McIntosh Plant Hire (Aberdeen) LtdCairdhillock East, Kingswells, AberdeenWML/N/20201NJ840064McTaggart Construction LtdGiffenmill Railway Cutting, Barrmill, by BeithWML/N/20093NS372514Messrs D Menzies & PartnersMains of Taymouth, KenmoreWML/W/20093NS372514Messrs J &t R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/N/20020NR684223Michael BowmanDuisky - 5, Fort WilliamWML/N/50124NN007772Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094 | Lothian Recycling 1996 Ltd | Pentland Mains Landfill, Damhead, Midlothia | 1WML/E/20145 | NT254654 |
| Luddon Construction LtdDalreoch Quarry, Renton Road, DumbartonWML/W/00015NS388761M & J BallantyneBroomhouse Quarry, MaxtonWML/E/00001NT633309M K Leslie LtdWest Staney Hill, LerwickWML/N/50101HU448422M Ridgeway, EsqRailway Cutting, Nether Howden Farm, Oxton WML/E/00007NT499532Mardon Plant Hire LtdHillhouse FarmWML/E/00053NT117674Marshall FarmsMuirpark Farm, Tullibody, ClackmannanshireWML/E/20171NS867961McIntosh Plant Hire (Aberdeen) LtdCairdhillock Landfill Site, Kingswells, AberdeenWML/N/20003NJ847068McIntosh Plant Hire (Aberdeen) LtdLeys Quarry, Mintlaw, PeterheadWML/N/20206NK004524McIntosh Plant Hire (Aberdeen) LtdCairdhillock East, Kingswells, AberdeenWML/N/20201NJ840064McTaggart Construction LtdGiffenmill Railway Cutting, Barrmill, by BeithWML/W/20093NS372514Messrs D Menzies & PartnersMains of Taymouth, KenmoreWML/E/00307NN789477Messrs J & R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNettyle Landfill, Rafford, ForresWML/N/50038NJ054552 | Luddon Construction Ltd | Birdston Tip, Kirkintilloch | WML/W/00048 | NS649748 |
| M & Ly Ballantyne Broomhouse Quarry, Maxton WML/E/00001 NT633309 M & Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20201 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Dhurrie Farm, Campbeltown, Argyll WML/W/00220 NR684223 Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, WML/E/20047 NT273597 Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20094 NJ361643 Moray Council Netyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | Luddon Construction Ltd | East Mavis Valley, Bishopbriggs | WML/W/00065 | NS597714 |
| M K Leslie Ltd West Staney Hill, Lerwick WML/N/50101 HU448422 M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, WML/N/20003 NJ847068 Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20201 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies &t Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J &t R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Dhurrie Farm, Campbeltown, Argyll WML/W/00220 NR684223 Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, WML/E/20047 NT273597 Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20094 NJ361643 Moray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | Luddon Construction Ltd | Dalreoch Quarry, Renton Road, Dumbarton | WML/W/00015 | NS388761 |
| M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20201 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20094 NJ234634 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | M & J Ballantyne | Broomhouse Quarry, Maxton | WML/E/00001 | NT633309 |
| M Ridgeway, Esq Railway Cutting, Nether Howden Farm, Oxton WML/E/00007 NT499532 Mardon Plant Hire Ltd Hillhouse Farm WML/E/00053 NT117674 Marshall Farms Muirpark Farm, Tullibody, Clackmannanshire WML/E/20171 NS867961 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead WML/N/20206 NK004524 McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20201 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20094 NJ234634 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | M K Leslie Ltd | * | WML/N/50101 | HU448422 |
| Mardon Plant Hire LtdHillhouse FarmWML/E/00053NT117674Marshall FarmsMuirpark Farm, Tullibody, ClackmannanshireWML/E/20171NS867961McIntosh Plant Hire (Aberdeen) LtdCairdhillock Landfill Site, Kingswells, WML/N/20003NJ847068McIntosh Plant Hire (Aberdeen) LtdLeys Quarry, Mintlaw, PeterheadWML/N/20206NK004524McIntosh Plant Hire (Aberdeen) LtdCairdhillock East, Kingswells, AberdeenWML/N/20201NJ840064McTaggart Construction LtdGiffenmill Railway Cutting, Barrmill, by BeithWML/W/20093NS372514Messrs D Menzies &t PartnersMains of Taymouth, KenmoreWML/E/00307NN789477Messrs J &t R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Michael BowmanDuisky - 5, Fort WilliamWML/N/50124NN007772Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/E/20047NT273597Moray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | M Ridgeway, Esq | <u> </u> | WML/E/00007 | NT499532 |
| McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 MS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 Messrs McFadyens Contractors, Dhurrie Farm, Campbeltown, Argyll WML/W/00220 NR684223 Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20095 NJ234634 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | | | | NT117674 |
| McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock Landfill Site, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Leys Quarry, Mintlaw, Peterhead McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen McIntosh Plant Hire (Aberdeen) Ltd McIntosh | Marshall Farms | Muirpark Farm, Tullibody, Clackmannanshire | WML/E/20171 | NS867961 |
| McIntosh Plant Hire (Aberdeen) Ltd Cairdhillock East, Kingswells, Aberdeen WML/N/20201 NJ840064 McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Dhurrie Farm, Campbeltown, Argyll WML/W/00220 NR684223 Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, WML/E/20047 NT273597 Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20095 NJ234634 Moray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | McIntosh Plant Hire (Aberdeen) Ltd | Cairdhillock Landfill Site, Kingswells, | | NJ847068 |
| McTaggart Construction Ltd Giffenmill Railway Cutting, Barrmill, by Beith WML/W/20093 NS372514 Messrs D Menzies & Partners Mains of Taymouth, Kenmore WML/E/00307 NN789477 Messrs J & R Mitchell Pairney Quarry, Auchterarder WML/E/00310 NN977130 Messrs McFadyens Contractors, Campbeltown, Argyll WML/W/00220 NR684223 Campbeltown Ltd Michael Bowman Duisky - 5, Fort William WML/N/50124 NN007772 Midlothian Council Drummond Moor Landfill Site, Roslin, Penicuik Moray Council Kirkhill Landfill, Calcots Road, Elgin WML/N/20095 NJ234634 Moray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | McIntosh Plant Hire (Aberdeen) Ltd | Leys Quarry, Mintlaw, Peterhead | WML/N/20206 | NK004524 |
| Messrs D Menzies & PartnersMains of Taymouth, KenmoreWML/E/00307NN789477Messrs J & R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Michael BowmanDuisky - 5, Fort WilliamWML/N/50124NN007772Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/E/20047NT273597Moray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | McIntosh Plant Hire (Aberdeen) Ltd | Cairdhillock East, Kingswells, Aberdeen | WML/N/20201 | NJ840064 |
| Messrs D Menzies & PartnersMains of Taymouth, KenmoreWML/E/00307NN789477Messrs J & R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Michael BowmanDuisky - 5, Fort WilliamWML/N/50124NN007772Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/E/20047NT273597Moray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | McTaggart Construction Ltd | | WML/W/20093 | NS372514 |
| Messrs J & R MitchellPairney Quarry, AuchterarderWML/E/00310NN977130Messrs McFadyens Contractors, Campbeltown LtdDhurrie Farm, Campbeltown, ArgyllWML/W/00220NR684223Michael BowmanDuisky - 5, Fort WilliamWML/N/50124NN007772Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/E/20047NT273597Moray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | | | | NN789477 |
| Messrs McFadyens Contractors, Campbeltown Ltd Michael Bowman Duisky - 5, Fort William Moor Landfill Site, Roslin, Penicuik Moray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/50038 NR684223 WML/N/50124 NN007772 NN007772 NML/E/20047 NT273597 NT273597 NJ234634 Noray Council Nether Dallachy Landfill, Spey Bay, Moray WML/N/20094 NJ361643 NJ054552 | Messrs J & R Mitchell | | WML/E/00310 | NN977130 |
| Midlothian CouncilDrummond Moor Landfill Site, Roslin, PenicuikWML/E/20047NT273597Moray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | The state of the s | Dhurrie Farm, Campbeltown, Argyll | WML/W/00220 | NR684223 |
| PenicuikMoray CouncilKirkhill Landfill, Calcots Road, ElginWML/N/20095NJ234634Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | Michael Bowman | Duisky - 5, Fort William | WML/N/50124 | NN007772 |
| Moray CouncilNether Dallachy Landfill, Spey Bay, MorayWML/N/20094NJ361643Moray CouncilNewtyle Landfill, Rafford, ForresWML/N/50038NJ054552 | Midlothian Council | | WML/E/20047 | NT273597 |
| Moray Council Newtyle Landfill, Rafford, Forres WML/N/50038 NJ054552 | Moray Council | Kirkhill Landfill, Calcots Road, Elgin | WML/N/20095 | NJ234634 |
| | Moray Council | Nether Dallachy Landfill, Spey Bay, Moray | WML/N/20094 | NJ361643 |
| W 1 V (D d) (d) | Moray Council | Newtyle Landfill, Rafford, Forres | WML/N/50038 | NJ054552 |
| Morris Young (Perth) Ltd Loanieven Farm, Perth WML/E/0020139 N0055258 | Morris Young (Perth) Ltd | Loanleven Farm, Perth | WML/E/0020139 | N0055258 |
| Mr A P Anderson Kinbuck Quarry WML/E/00323 NN795050 | Mr A P Anderson | Kinbuck Quarry | WML/E/00323 | NN795050 |
| Mr Angus Macleod Marybank Quarry, Stornoway WML/N/50078 NB408328 | Mr Angus Macleod | Marybank Quarry, Stornoway | WML/N/50078 | NB408328 |
| Mr Gavin Craig Avonside, Drumclog WML/W/00156 NS630370 | Mr Gavin Craig | Avonside, Drumclog | WML/W/00156 | NS630370 |
| Mr George Adam Muirton Park Cottage, Bannockburn WML/E/00326 NS818896 | Mr George Adam | Muirton Park Cottage, Bannockburn | WML/E/00326 | NS818896 |
| Mr J Muir Inverqueich Farm, Alyth WML/E/00335 NO274499 | | Inverqueich Farm, Alyth | WML/E/00335 | N0274499 |
| Mr James Rae Halliday Campbelton Farm, Twynholm, Whiteliggate WML/W/00265 NX657538 | Mr James Rae Halliday | | WML/W/00265 | NX657538 |
| Mr Robert Drummond Straid Farm, Lendalfoot WML/W/00245 NS213507 | · | | | |
| Murray & Burrell Ltd Hartwoodburn Farm, Selkirk WML/E/00012 NT467269 | | | | |
| N C Law Construction & Demolition Burnside Phase 2, By Tillicoultry WML/E/00322 NS907968 | | | | |
| Norman Jamieson No 7 Holdings, Gagie Quarries, near Monikie WML/E/00233 NO468367 | | | | |

| Licence Holder | Site | WML number | National grid reference |
|-----------------------------------|--|----------------|-------------------------|
| North Ayrshire Council | Shewalton Landfill, Shewalton, Irvine | WML/W/20059 | NS333365 |
| North Ayrshire Council | Brodick Landfill Site | WML/W/20057 | NS029353 |
| North Lanarkshire Council | Auchinlea Landfill, Bellside, Cleland | WML/W/20070 | NS280658 |
| North of Scotland Water Authority | Killiecrankie Water Treatment Works, Perthshire | WML/E/00306 | NN921626 |
| North of Scotland Water Authority | Lumsden, Rhynie | WML/N/20061 | NJ468224 |
| North of Scotland Water Authority | Elf Hill Quarry, Elgin | WML/N/20097 | NJ211557 |
| North of Scotland Water Authority | Lochcraigs Wood, Lintrathen | WML/E/00236 | NO280543 |
| Orkney Islands Councils | Bossack Quarry, Tankerness, Orkney | WML/N/50019(b) | HY504084 |
| Orkney Islands Councils | Blossom Quarry, Rousay, Orkney | WML/N/50008(a) | HY424324 |
| Orkney Islands Councils | Chinglebraes Quarry, St Ola, Orkney | WML/N/50020 | HY427090 |
| Orkney Islands Councils | Gallowtuag Quarry, South Walls, Hoy, Orkney | WML/N/50009 | ND304896 |
| Orkney Islands Councils | Mitchell's Quarry, Stronsay, Orkney | WML/N/50006(a) | HY657281 |
| Orkney Islands Councils | Peat Road Landfill, West Hill, Flotta | WML/N/50005 | ND347926 |
| Orkney Islands Councils | Westside Road Quarry, Eday, Orkney | WML/N/50007(a) | HY562334 |
| Pat Munro (Alness) Ltd | Caplich Quarry, Alness | WML/N/50108 | NH668704 |
| Pennant Plant Ltd | Prestonholm, Dalhousie | WML/E/00086 | NT324627 |
| Perth & Kinross Council | North Forr Landfill, By Crieff | WML/E/20059 | NN871202 |
| R Garrick | The Old Lime Quarry, Girlsta | WML/N/50099 | HU430504 |
| R W & P Millican | Heughhead, Reston | WML/E/00132 | NT877626 |
| Railtrack plc | Shewalton Moss Tip, Irvine | 38-003 | NS333350 |
| Reclaim (Helensburgh) Ltd | Finnart Landfill Site, Garelochhead | WML/W/00017 | NS241944 |
| Reigart Contracts Ltd | Drumcavel Quarry | WML/W/0020133 | |
| Renfrewshire Council | Linwood Moss, Linwood | WML/W/20088(a) | NS443656 |
| Robertson Contracting | Newton Toll, Elgin | 19-035 | NJ166632 |
| Robinson & Davidson Ltd | Townhead Farm, Collin | WML/W/00211 | NY028757 |
| Russell Coal Limited | Gartshore 9/11 Soils Tip, Twechar | WML/W/00064 | NS702763 |
| S McAlister | West Thomaston Farm, Banknock | WML/E/00018 | NS778798 |
| Scottish Borders Council | Dunion Hill Landfill Site, Jedburgh | WML/E/20100 | NT625189 |
| Scottish Borders Council | Far Knowes Landfill Site, Galashiels | WML/E/20099 | NT518367 |
| Scottish Power | Foreshore, West Pans, Musselburgh | WML/E/00072 | NT360735 |
| Scottish Power | Longannet | WML/E/00250 | NS960850 |
| Scottish Power | Valleyfield (Torry Bay) | WML/E/00251 | NT000850 |
| Shanks Ltd | Tarbothill, Murcar, Aberdeen | WML/N/20151 | NJ957138 |
| Shanks Argyll & Bute Ltd | Dalinlongart Landfill Site, near Dunoon | WML/W/20039 | NS138814 |
| Shanks Argyll & Bute Ltd | Lingerton Landfill Site, Lochgilphead | WML/W/20040 | NR867853 |
| Shanks Argyll & Bute Ltd | Larkhall/Westland Road, Rothesay | WML/W/20041(a) | NS075648 |
| Shanks Argyll & Bute Ltd | Moleigh Landfill Site, Ariogan, By Oban | WML/W/20043(a) | NM869268 |
| Shanks Waste Services Ltd | Hartlouphill, Wattston, Airdrie | WML/W/00164 | NS770699 |
| Shetland Islands Council | Rova Head, Lerwick, Shetland | WML/N/50052 | HU471452 |
| Smith Skip Ltd | Knowes Farm, Beith | WML/W/00074 | NS342553 |
| Stewart Milne Homes Ltd | Lynturk Tough, Alford | WML/N/20067 | NJ595124 |
| T Muir (Haulage) Ltd | Balbie Farm, Kirkcaldy | WML/E/00260 | NT232892 |

WDD5

Talisman Energy UK Ltd

Tarmac Northern Ltd

Site

Golta Tip, Flotta

Haveral Wood Quarry, Lasswade, Midlothian

Licence Holder

Shanks

Shanks

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|--|---|----------------|-----------|
| Tarmac Northern Ltd | Coltness Factory, Newmains, Wishaw | WML/W/00170 | NS825553 |
| Tayside Contracts | Bolshan Quarry, Kinnell, Friockheim | WML/E/00211 | N0621527 |
| Tayside Contracts | Cultullich, Aberfeldy | WML/E/00300 | NN873504 |
| Tillicoultry Quarries Ltd | Tulliallan Quarry | WML/E/00252 | NS939898 |
| Toffolo Jackson | Burnfield Road, Glasgow | WML/W/00102 | NS557598 |
| Torith Ltd | Baldragon Farm, Bridgefoot, Dundee | WML/E/00229 | N0378352 |
| Uist Builders (Construction) Ltd | Grimshader Quarry, Grimshader, Isle of Lewis | WML/N/50083 | NB394275 |
| UKAEA | Dounreay near Thurso | WML/N/50085 | NC992679 |
| W Forrest & Son | Omoa Works, Newarthill, Motherwell | WML/W/00191 | NS798598 |
| W H Malcolm Ltd | Inchbelly Landfill, Kilsyth Road, Kirkintilloch | WML/W/00050 | NS668756 |
| W H Malcolm Ltd | Reilly Quarry, Bishopton, Renfrewshire | WML/W/00077 | NS418695 |
| W H Malcolm Ltd | Southbar Landfill, Bishopton, Renfrewshire | WML/W/00078 | NS447693 |
| W H Malcolm Ltd | Giffen Quarry, Greenhills, By Beith | WML/W/00221 | NS379507 |
| W H Malcolm Ltd | Medrox Quarry, Glenboig | WML/W/00159 | NS726699 |
| W H Malcolm Ltd | Shewalton Road Sand Quarry, Irvine | WML/W/00186 | NS330371 |
| W J & R Morgan | Anniston, Inverkeilor, Arbroath | WML/E/00221 | N0663478 |
| Waste Recycling Group (Scotland) Ltd | Easter Deans Landfill Site, Nr Leadburn | WML/E/00134 | NT239532 |
| Waste Recycling Group Ltd | Drummond Moor, No 2 Landfill | WML/E/20192 | NT272597 |
| Watermill Aggregates Ltd | Broomhead Farm Quarry | WML/N/20209 | NJ982637 |
| West of Scotland Water | Glassford Water Treatment Works | WML/W/00135 | NS708478 |
| West of Scotland Water | Loch Whinyeon, Gatehouse of Fleet | WML/W/00262 | NX630612 |
| West of Scotland Water | Laurieston Forest | 10-005 | NX665635 |
| West of Scotland Water | Carbarns STW, Netherton, Wishaw | WML/W/20120 | NS771538 |
| West of Scotland Water | Gorbals Works, Corslett Road, Glasgow | WML/W/20146 | NS235582 |
| William Hamilton & Sons (Contractors) Ltd | Dovesdale Farm, Stonehouse | WML/W/00155 | NS770460 |
| Wm Baxter & Son | Baxter's Food Factory, Fochabers | WML/N/20096 | NJ339601 |
| Wm Thompson & Son (Dumbarton) Ltd | Riggangower Quarry, Milton | WML/W/00020 | NS438752 |
| William Tracey Limited | Middleton Quarry, Lugton, Beith | WML/W/20185 | NS400528 |
| Mobile Plants | | | |
| Bio-logic Remediation Ltd | Not applicable as mobile plant | WML/W/20154 | |
| Bio-logic Remediation Ltd | Not applicable as mobile plant | WML/W/20131 | |
| Environmental Reclamation Services Ltd | Not applicable as mobile plant | WML/W/20134 | |
| Environmental Reclamation Services Ltd | Not applicable as mobile plant | WML/W/20152 | |
| Land & Water Services (Scotland) Ltd | Not applicable as mobile plant | WML/E/20201 | |
| Shanks | Not applicable as mobile plant | WML/W/20143 | |
| | · | | |

Not applicable as mobile plant

Not applicable as mobile plant

WML

number

WML/N/50071

WML/E/00098

WML/W/20113

WML/W/20125

National grid

reference

ND365948

NT293659

| Licence Holder | Site | WML number | National grid reference |
|--|--|---------------|-------------------------|
| Treatment Plants | | | |
| 60 North Recycling Ltd | Layfields/Rova Head, Lerwick | WML/N/50076 | HU470449 |
| A Christie & Sons | 11-13 Glendale Street, Glasgow | WML/W/20189 | NS616649 |
| Aberdeenshire Council | Civic Amenity Site, Souterford Road, Inverurie | WML/N/20027 | NJ778219 |
| Aberdeenshire Council | Kirkton Road Depot, Stonehaven | WML/N/0220003 | N0861860 |
| All Urban Waste Disposal | 3 Albert Road, Edinburgh | WML/E/0020203 | |
| Armstrong Waste Management Ltd | Newton Road Ind Est, Dumfries | WML/W/00199 | NX955783 |
| ASAP Contracts Ltd | Rear of Cairnhill Cottage, Sykeside Road, Airdrie | WML/W/20140 | NS754637 |
| Caledonian Industrial Ltd, Caleco Waste | Caleco Waste Transfer Station | WML/E/20179 | NT284666 |
| Champion Technologies Inc | Minto Avenue, Altens, Aberdeen | WML/N/20008 | NJ955030 |
| CRM Recycling | Yard 2 Mayfield | WML/E/0120038 | NT343639 |
| D & W Stewart (Ladybank) Ltd | Lower Melville Wood, Ladybank | WML/E/00283 | NO297116 |
| East Coast Skips | Macmerry Industrial Estate, Macmerry, East Lothian | WML/E/200075 | NT443726 |
| East Dunbartonshire Council | Broomhill Dewatering Facility, Broomhill Industrial Estate, Kirkintilloch | WML/W/20148 | NS662748 |
| East Lothian Council | Barbachlaw Refuse Baling and Transfer Station, Wallyford | WML/E/20083 | NT361719 |
| East Lothian Council | Macmerry Industrial Estate, Macmerry, East Lothian | WML/E/0120039 | NT445284 |
| East of Scotland Water Authority | Dalderse WWTW, Davids Loan, Falkirk | WML/E/20163 | NS902820 |
| East of Scotland Water Authority | Carron Valley Treatment Works, Denny | WML/E/20212 | NS766836 |
| Eden Waste Recycling | 8 Westerton Road, Broxburn | WML/E/20002 | NT095723 |
| Enviroco Limited | Dam Head Industrial Estate, Peterhead | WML/N/20125 | NK011044 |
| Enviroco Limited | Hillview Industrial Estate, Hillview Road, East Tullos, Aberdeen | WML/N/20187 | NJ950037 |
| Enviroscot Limited | Langmuir Way, Bargeddie | WML/W/20118 | NS705641 |
| Enviroscot Ltd | 600 Gilmerton Road, Edinburgh | WML/E/20187 | NT298681 |
| Euro Environmental Contracts Ltd | 2 Whitestone Place, Whitehill Industrial Estate, Bathgate | WML/E/20195 | NS982663 |
| Hamilton Waste & Recycling Ltd | Wallyford Industrial Estate, Mussleburgh | WML/E/00075 | NT369718 |
| Highland Council | Torbreck Waste Transfer Station, Torbreck, Lochinver, Sutherland | WML/N/50118 | NC087242 |
| J A Kerins, Kwik Skips | Yard No 5, The Clippens Yard, Station Road, Loanhead | WML/E/20169 | NT269662 |
| J Burnett | Dalkeith Demolition, Mayfield Industrial Estate, Dalkeith | WML/E/00094 | NT343643 |
| J Haig Hamilton and Sons | West Fortune Farm, Drem, North Berwick | WML/E/0120001 | NT532810 |
| J M Cunningham | Yard No 6, The Clippens Yard, Station Road, Loanhead | WML/E/20168 | NT269662 |
| James Easdale | 40 Upper Cartsburn Street, Greenock | WML/W/20098 | NS284752 |
| Lanstar (Scotland) Ltd | Transfer Station (Solvent Processing), 60 Murray St, Paisley | WML/W/00008 | NS476647 |
| Leigh Environmental Ltd | Abbots Road, Bankside Ind Estate, Falkirk | WML/E/00019 | NS897815 |

| Licence Holder | Site | WML number | National grid reference |
|------------------------------------|--|----------------------------|-------------------------|
| M McKenzie | Old Pentland, Loanhead, Edinburgh | 30-037 | NT265662 |
| McIntosh Plant Hire (Aberdeen) Ltd | Birchmoss Plant & Storage Depot, Echt, Westhill | WML/N/20173 | NJ747502 |
| Ministry of Defence (N) | Ministry of Defence, Clyde Submarine Base, Faslane | WML/W/00023 | NS242901 |
| Morris Young (Perth) Ltd | Loanleven Farm, Perth | WML/E/0020139 | |
| Mr George Kerr | Drumshoreland Road, Pumpherston | WML/E/20007 | NT074695 |
| Network Rail Infrastructure | Millerhill Marshalling Yard | WML/E/0120023 | NT323712 |
| North Ayrshire Council | 46 Metcalf Place, Oldhall Industrial Estate, Shewalton, Irvine | WML/W/20056 | NS333365 |
| North of Scotland Water Authority | Halkirk Wastewater Treatment Plant, Halkirk | WML/N/50243 | ND141597 |
| Orkney Islands Councils | Workwell Quarry, Orphir, Orkney | WML/N/50010 | HY307054 |
| Patersons Waste Management | 101 Kenmuir Road, Mount Vernon, Glasgow | WML/W/0022011 | NS661626 |
| Perth & Kinross Council | Ladywell Leachate Irrigation System, Dunkeld | WML/E/20050 | |
| Scottish Water | Carbarans WWTW, Carbarns Road, Netherton Wishaw | , WML/W/22003 | NS772539 |
| Scottish Water | Granton on Spey, Waste Water Treatment Plant, Granton on Spey | WML/N/0220009 | NJ030269 |
| Scottish Water | Aviemore Waste Water Treatment Plant, Aviemore | WML/N/0220008 | NH904130 |
| Scottish Water | Bogton Road, Forres | WML/N/0220014 | NJ039596 |
| Scottish Water | Corntown, Conon Bridge | WML/N/0220012 | NJ550562 |
| Scottish Water | Broadford WWTP, Broadford Industrial Estate, Broadford, Skye | WML/N/0220015 | NG638241 |
| Shanks | Greenbank Crescent, East Tullos, Aberdeen | WML/N/20170 | NJ952037 |
| Shanks | Greenbank Road, East Tullos, Aberdeen | WML/N/20158 | NJ950038 |
| SITA, Block 7 | Sclattie Civic Amenity Site, Bucksburn, Aberdeen | WML/N/20010 WML/N/20207 | NJ893100 |
| SITA, Block 7 | Civic Amenity Site, Pitmedden Road, Dyce | WML/N/20012 | NJ884131 |
| SITA, Block 7 | Refuse Treatment Plant, Greenbank Crescent, East Tullos, Aberdeen | WML/N/20014 | NJ953039 |
| Shanks & McEwan (Cont) Ltd | Cultins Road, Sighthill Industrial Estate | WML/E/00110 | NT185712 |
| Shaun Skinner | Veitch's Yard, Edgefield Rd, Loanhead, Midlothian | WML/E/20191 | NT284668 |
| Stirling Water Seafield Limited | Sewage Treatment Works, 4 Marine Esplanade | WML/E/00144 | NT288760 |
| Summerside Skips Ltd | Freightliner Yard, Sir Harry Lauder Road, Portobello | WML/E/20206 | NT305735 |
| Sureclean | 10 River Drive, Teaninich Industrial Estate, Alness, Ross-Shire | WML/N/50054 | NH652692 |
| Swire Oilfield Services | Souterhead Rd, Altens, Aberdeen | WML/N/20165 | NJ950020 |
| T B Williamson & Son Ltd | Unit 39, Newbattle Ind Est, Mayfield, Dalkeith | WML/E/20150 | NT344644 |
| Taylors Industrial Services Ltd | Hareness Circle, Altens, Aberdeen | WML/N/0220002 | NJ945027 |
| Taylors Industrial Services Ltd | Hareness Circle, Altens, Aberdeen | WML/N/20001 | NJ945027 |

| Licence Holder | Site | WML number | National grid reference |
|---|---|----------------|-------------------------|
| Tayside Contracts | Loanleven Treatment Facility | WML/E/20200 | N0047253 |
| Tayside Contracts | Forfar Depot, Kirriemuir Rd | WML/E/20207 | NO447516 |
| Total Waste Management Alliance Plc | Unit 12, Dales Industrial Estate, Peterhead, Aberdeen | WML/N/20202 | NK110447 |
| Town & Country Skips Ltd | Macmerry Industrial Estate, Macmerry, East Lothian | WML/E/0120012 | |
| UK Waste Management Ltd | Kilsyth Treatment Centre, Twechar | WML/W/00009 | NS701762 |
| UK Waste Management Ltd | Greenbank Road, Aberdeen | WML/N/20018 | NJ948038 |
| Waste Advisory Services (Scotland) Ltd | 72 Durham Street, Kinning Parkway Industrial Estate, Glasgow | WML/W/22007 | NS567641 |
| Watson Skip Hire Ltd | Compound No 5, Easthouses Ind Est, Dalkeith | WML/E/20205 | NT346656 |
| West of Scotland Water | Daldowie Sludge Treatment Centre, Daldowie STW, Broomhouse, Uddingston | WML/W/00275 | NS672621 |
| West of Scotland Water | Sheildhill Slude Treatment Centre, 38 Renfrew Road, Glasgow | WML/W/20121 | NS537661 |
| William Tracey Ltd | Dunniflats Depot, Lugton | WML/W/00187 | NS418531 |
| William Tracey Ltd | Burnbrae Road, Linwood | WML/W/20110 | NS432643 |
| William Tracey Ltd | 15 Carlibar Road, Barrhead | WML/W/00011 | NS500592 |
| Post closure landfill sites | | | |
| A B Hendry | Beam Quarry, Bonnybridge | WML/E/00017 | NS836771 |
| Aberdeen City Council | Hill of Tramaud, Aberdeen | WML/N/20015 | NJ948133 |
| Aberdeen City Council | Ness Farm, Tullos Hill, Aberdeen | WML/N/20016 | NJ967037 |
| Aberhill Metals Ltd | Old Leven Colliery Bing, Methil | WML/E/00264 | N0369005 |
| Alcan | Kinlochleven Disposal Site | WML/N/50061(a) | NN180619 |
| Ambion Homes Ltd | Peel Glen Road, Bearsden | WML/W/00012 | NS519727 |
| Andrew Cook (Containers) Ltd | Devon Quarry, Kennoway | WML/E/00285 | N0337048 |
| Angle Park Sand & Gravel Co Ltd | Ramornie Sand Pit, Ladybank | WML/E/00289 | NO312101 |
| Angus Council | Arrats Mill Landfill Site, Arrats Mill, Montrose Road, Brechin | WML/E/20025 | NO646587 |
| Argyll and Bute Council | Achadaphail Quarry, Bunessan, Isle of Mull | WML/W/20044 | NM400224 |
| Arjo Wiggins Fine Papers Ltd | Little Clinterty Quarry, Bucksburn, Aberdeen | WML/N/20070 | NJ836123 |
| Armstrong Waste Management Ltd | Auchenlosh Quarry, Dalbeattie (Phase I) | 10-004 | NX851612 |
| Balfour Beatty Construction Ltd Civil Engineering Division | Creaggan Bridge, Balcardine, Argyll | WML/W/20123 | NM977441 |
| Barr Ltd | Hollybush Farm, Mauchline, Ayr | WML/W/00240 | NS489297 |
| Braidbar Nurseries | Star & Garter Farm, Newton Mearns | WML/W/00100 | NS526533 |
| British Petroleum | Sullom Voe/Esso Bernicia, Sullom Voe | WML/N/50094 | HU401768 |
| British Waterways | Almond Aquaduct | WML/E/00050 | NT104706 |
| Bruce Plant Ltd | Charlestown, Cove, Aberdeen | 1990/07 | NJ944010 |
| Castelli & Girola UK Ltd | Boyd's Farm, Eagelsfield | WML/W/00200 | NY231735 |
| Castelli & Girola UK Ltd | Bonshawside 1 + 2, Lockerbie, M74 | WML/W/00201 | NY225723 |
| Castelli & Girola UK Ltd | Woodhouse Mains, Kirtlebridge | WML/W/00202 | NY268711 |
| City of Glasgow Council | Cathkin Quarry, Cathkin Road, Glasgow | WML/W/00101 | NS622583 |

WDD5

| Licence Holder | Site | WML number | National grid reference |
|--|---|---------------|-------------------------|
| Comhairle nan Eilean Siar | Raoinavat, South Shawbost, Isle of Lewis | WML/N/50032 | NB243459 |
| CORUS | Clydebridge Works, Ballochmill Road, Glasgow | vWML/W/00107 | NS632625 |
| Culdaff Construction Ltd | Calderside Farm, by Auchentibber, Hamilton | WML/W/00133 | NS665549 |
| D J Laing (Contracts) Ltd | Petterden Land Reclaimation, Dundee | WML/E/00228 | NO424398 |
| D Cochrane | Catmoss Quarry, Greenlaw | WML/E/00136 | NT713451 |
| D J Laing (Contractors) Ltd | Lauriston Quarry, Quarryfield Farm, St Cyrus | WML/N/20145 | N0759667 |
| Dan Ramsay & Son Ltd | Meadowbank Farm, Torrance | WML/W/00061 | NS628739 |
| Daniel Campbell & Sons (Contractors Ltd) | Millwell Farm, Drumboy Road, Auldhouse, East Kilbride | WML/W/00108 | NS653497 |
| Deryck Forbes | Crossley Quarry, Maryculter | WML/N/20144 | NO865964 |
| Dr & Mrs H Riffkin | Teuchats Farm,By Leven,Fife | WML/E/00293 | NO403075 |
| Dykebar Waste Ltd | Harelaw Farm | 49-030 | NS499607 |
| East Dumbartonshire Council | Roads Department, Broomhill Industrial Estate, Kirkintilloch | WML/W/00063 | NS664748 |
| East Lothian Council | Carberry Landfill Site, Near Whitecraig, East Lothian | WML/E/20086 | NT364701 |
| Ennstone Thistle Limited | Ethiebeaton Quarry, Monifieth, By Dundee | WML/E/20005 | NO485338 |
| Farrans Construction | Auchenfoyle Farm, Kilmacolm | 44-012 | NS311671 |
| Fife Council (Cleansing & Waste Management) | Lochty Park, Glenrothes | WML/E/00265 | NT289984 |
| G & A Munn & Son Landfill Ltd | Site 6, Mid Auchencarroch Farm, Jamestown | WML/W/00022 | NS419813 |
| G & B Building & Civil Eng Contractors Ltd | Greenhead Farm, Rescobie, Forfar | WML/E/00220 | NO515514 |
| G & D Cunningham Ltd | Haugh Road, Mauchline, Ayrshire | WML/W/00242 | NS502263 |
| Gavin Lawrie Ltd | Monkton Sand Quarry, Near Monkton | WML/W/00244 | NS344277 |
| George Beattie & Sons (Contractors) Ltd | Colzium Quarry, Kilsyth | WML/W/00054 | NS725788 |
| George Munn & Others | Site 3, Mid Auchencarroch Farm, Jamestown | WML/W/00019 | NS414824 |
| Glasgow City Council | Wilderness Quarry, Bishopbriggs | WML/W/00049 | NS598725 |
| Grant Construction Services (Fife) Ltd | Dodhead Links, Kirkcaldy Road, Burntisland | WML/E/20015 | NT247869 |
| Highland Council | Crofthaugh, Brora, Sutherland | WML/N/50048 | NC896042 |
| Highland Council | Raasay Waste Disposal Site, Creachan, Raasay | WML/N/50024 | NG554379 |
| J & A Crozier | Lochdrum Farm, Bonnybridge | WML/E/00022 | NS818782 |
| J & J Currie | Down's Moss, Catherinefield Road, Dumfries | WML/W/00207 | NY013778 |
| J C Campbell & Co | Southbank Road, Kirkintilloch | WML/W/00059 | NS649732 |
| J H Connon Ltd | Cairnhall, Kintore | WML/N/20064 | NJ787178 |
| J Haig Hamilton | West Fortune Farm, Drem | WML/E/00077 | NT534801 |
| J J Spence | East Hatton Farm, Balmedie | WDL/13 | NJ965157 |
| J Wilson & Son (Coulton) Ltd | Old Toll Garage, Littlemill Road, Drongan, Ayrshire | WML/W/00241 | NS446187 |
| James Barr | Catherine Field Road, Heathhall, Dumfries | WML/W/00209 | NY006786 |
| John Gibbons (Contractors) Ltd | Site No 2, Middle Essie, St Fergus, Peterhead | WML/N/20122 | NK076546 |
| John H Connon Ltd | Woodlands Quarry, Tulloford, Oldmeldrum | WML/N/20000 | NJ797327 |
| Joss (Aberdeen) Ltd | Newtonhill, Whitecairns | WML/N/20005 | NJ928153 |

| Licence Holder | Site | WML number | National grid reference |
|---|--|---------------|-------------------------|
| KMS (Fife) Ltd | Tolliehill Landfill | WML/E/00245 | NT165930 |
| Les Taylor Contractors Ltd | South Auchinclech, Westhill, Skene | WML/N/20066 | NJ803119 |
| Les Taylor Contractors Ltd | Wogle Farm, Kinellar | WML/N/20069 | NJ825084 |
| Les Taylor Contractors Ltd | Savoch Quarry, Longside, Peterhead | WML/N/20124 | NK066425 |
| Lewis Land Sevices Ltd | Druim Shader, Isle of Lewis | WML/N/50077 | NB528343 |
| McIntosh Plant Hire (Aberdeen) Ltd | Kingsford, Kingswells, Aberdeen | 1990/03 | NJ845064 |
| McIntosh Plant Hire (Aberdeen) Ltd | Backhill, Kingswells, Aberdeen | 1991/16 | NJ843064 |
| McIntosh Plant Hire Ltd | Sluie Quarry, Potarch | WDL/14 | NO613968 |
| Messrs George Raeburn | Earnockmuir Farm, Hamilton | WML/W/00139 | NS687525 |
| Les Taylor Contractors Ltd | Auchentibber, Newhousemill Road, East Kilbride | WML/W/00132 | NS667527 |
| Mr Angus Macleod | Loch Raoinavat, Shawbost, Isle of Lewis | WML/N/50081 | NB235458 |
| Mr B Paterson | Barclosh Moss, Dalbeattie | WML/W/00250 | NX851612 |
| Mr David Morton | Hayston Farm, Kirkintilloch | WML/W/00067 | NS642740 |
| Mr G A More – Nisbett | East Gilmerton, Drum Estate | WML/E/00115 | NT297687 |
| Mr G Kerr | Pumpherston Works | WML/E/00057 | NT074695 |
| Mr G Watters, Law Mining Ltd | Rigmuir Farm, Chapelton | WML/W/00143 | NS673524 |
| Mr Ian Ross | Cousland, By Dalkeith | WML/E/00090 | NT375688 |
| Mr J Adams - ARC Northern | A R C, Annanbank Farm, Johnstone Bridge | 08-027 | NY105935 |
| Mr M Russell, M & D Russell (Haulage) Ltd | Clapperton Bing, Pumpherston | WML/E/00048 | NT078697 |
| Mr Neil Knox | Scoughall Farm, North Berwick | WML/E/00076 | NT618833 |
| Mr Peter Beattie,George Beattie & Sons Ltd | Gartshore No 1 Colliery, Twechar | WML/W/00060 | NS270673 |
| Mrs Jane Simpson Hill | Torbush, Morningside, Newmains | 48-026 | NS826555 |
| Mrs Sarah Coyle | Waterbank Farm, Carmunnock | WML/W/00103 | NS598562 |
| N J Macdonald | The Old Burgh Tip, Marybank, Isle of Lewis | WML/N/50105 | NB403332 |
| North Ayrshire Council | Nethermains Landfill Site, Sandy Road, Irvine | WML/W/20058 | NS309415 |
| North Lanarkshire Council | Hope Park, Croy | WML/W/00066 | NS729760 |
| North Lanarkshire Council | Dalmacoulter Quarry, Stirling Road, Airdrie | WML/W/20069 | NS765679 |
| North of Scotland Water Authority | Ruthven, Huntly, Aberdeenshire | WDL2 | NJ517467 |
| Norwest Holst Construction Ltd | Badenheath Park Farm, 80 Cumbernauld Road, Annathill | WML/W/00174 | NS720719 |
| Parker Brothers Ltd | Hayston Garage, 38 Glasgow Road, Kirkintilloch | WML/W/00051 | NS645739 |
| Paterson of Greenoakhill Ltd | Greenhead Moss, Waterloo | WML/W/00172 | NS813547 |
| Peter Moretti | Cardowan Cottage, Stepps | WML/W/00281 | NS669685 |
| Pure Malt Products Ltd | Pure Malt Products, Victoria Bridge, Haddington | WML/E/00074 | NT518744 |
| R M Supplies (Inverkeithing) Ltd | Ferrytoll Quarry Landfill, Ferryhills Road, nr Inverkeithing | WML/E/00249 | NT127815 |
| Robert Russell | Wester Seamores Farm, Dennyloanhead | WML/E/00014 | NS805794 |
| S Oosterhof | Lower Tyacksnook, Lonmay, Fraserburgh | BBDC/WML/4 | NK032597 |
| Scottish Borders Council | SBC Roads DLO, Caddonlee Farm, Clovenfords | WML/E/00011 | NT466353 |

| Licence Holder | Site | WML number | National grid reference |
|------------------------------|---|----------------|-------------------------|
| Scottish Borders Council | SBC Roads DLO. Caddonlee Farm, Clovenford | | NT447357 |
| Scottish Borders Council | Corsbie Dean | WML/E/00141 | NT623455 |
| Scottish Borders Council | Cleugh Landfill Site, Preston | WML/E/20101 | NT792592 |
| Shanks | Wester Hatton Farm, Balmedie | WML/N/20149 | NJ948153 |
| Smith Anderson | Cabbagehall Tip, Leslie | WML/E/00263 | NO245013 |
| South Lanarkshire Council | Curlingmyre, Kelvin South, East Kilbride | WML/W/00105 | NS637158 |
| South Lanarkshire Council | Newlandsmuir Road, Gardenhall, East Kilbride | WML/W/00106 | NS611530 |
| South Lanarkshire Council | Markethill Road, Law Place, Nerston, East Kilbride | WML/W/00109 | NS632557 |
| South Lanarkshire Council | Earnock Quarry, Parkneuk Road, Blantyre | 43-004 | NS677539 |
| South Lanarkshire Council | Cadzow Dam Landfill, Off Muttonhole Rd, Hamilton | WML/W/00249 | |
| South Lanarkshire Council | Blue Waters Quarry, Limekilnburn Road, Quarter | 43-012 | NS717514 |
| Stair Estates | The Pot, Castle Kennedy, Stranraer | WML/W/00259 | NX100600 |
| Tarmac Northern Ltd | Craignaught Landfill, Dunlop, Ayrshire | WML/W/00222 | NS444516 |
| Tarmac Northern Ltd | Melville No 2, Lasswade | WML/E/00084 | NT298667 |
| Tarmac Northern Ltd | Melville No 1, Lasswade, Midlothian | WML/E/00084 | NT298667 |
| The Buccleuch Estates Ltd | Harelaw Hill, Langholm | 08-044 | NY427786 |
| Highland Council | Gairloch Site C, Poolewe Road, Gairloch | WML/N/50037(a) | NG819778 |
| Tullis Russell & Co Ltd | East Forthar Farm, Ladybank | WML/E/00284 | NO296059 |
| Tulloch Capital Quarries | Harelaw , Port Glasgow | WML/W/00076 | NS309727 |
| UK Waste Management | Wellbank Quarry, Dundee | WML/E/20114 | NO473378 |
| Vesuvius Premier | Haining Wood, Manual Works, Whitecross | WML/E/00023 | NS955774 |
| W H Malcolm Ltd | Overgree Farm, Burnhouse | WML/W/00223 | NS385510 |
| W H Malcolm Ltd | Mavis Valley, Balmuildy Road, Bishopbriggs | WML/W/00052 | NS593714 |
| W H Malcolm Ltd | Avenuehead Farm | WML/W/00277 | NS702698 |
| W M Tracey Ltd | Griffenmill Quarry, Greenhills, Barmill, By Beith | WML/W/20002 | NS373510 |
| W Russell & Sons | Wilkieston Farm, Peat Inn | WML/E/00288 | NO452119 |
| W Waugh & Son (Builders) Ltd | W Waugh, Auldgirth | WML/W/00215 | NX915842 |
| Waste Recycling Group Ltd | Kaimes Quarry, Kirknewton | WML/E/00109 | NT130665 |
| West of Scotland Water | Dryfield Sewage Treatment Works, Glasgow Road, Kirkintilloch | WML/W/20114 | NS673263 |
| West of Scotland Water | Jellyhill Sewage Treatment Works, Hilton Terrace, Bishopbriggs | WML/W/20115 | NS671260 |
| West of Scotland Water | Sludge Lagoons, Locharmoss, Dumfries | WML/W/00216 | NY010783 |
| West of Scotland Water | Dechmont Old Service Reservoir | WML/W/00104 | NS664576 |
| William Tracey | Knowes Farm, Beith, Phase 3 | WML/W/00075 | NS345557 |

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SEPA Corporate Office

Erskine Court, Castle Business Park, STIRLING FK9 4TR

Tel: 01786 457700 Fax: 01786 446885

Aberdeen Office

Greyhope House, Greyhope Road, Torry, Aberdeen, AB11 9RD

Tel: 01224 248338 Fax: 01224 248591

Arbroath Office

62 High Street, Arbroath, DD11 1AW Tel: 01241 874370 Fax: 01241 430695

Ayr Office

31 Miller Road, Ayr, KA7 2AX Tel: 01292 294000 Fax: 01292 611130

Dingwall Office

Graesser House, Fodderty Way, Dingwall Business Park, Dingwall, IV15 9XB Tel: 01349 862021 Fax: 01349 863987

Dumfries Office

Rivers House, Irongray Road, Dumfries, DG2 0JE Tel: 01387 720502 Fax: 01387 721154

East Kilbride Office

5 Redwood Crescent, Peel Park, East Kilbride, G74 5PP Tel: 01355 574200 Fax: 01355 574688

Edinburgh Office

Clearwater House, Heriot Watt Research Park, Avenue North, Riccarton, Edinburgh, EH14 4AP

Tel: 0131 449 7296 Fax: 0131 449 7277

Elgin Office

28 Perimeter Road, Pinefield, Elgin, IV30 6AF Tel: 01343 547663 Fax: 01343 540884

Fort William Office

Carr's Corner Industrial Estate, Lochybridge, Fort William, PH33 6TL

Tel: 01397 704426 Fax: 01397 705404

Fraserburgh Office

Shaw House, Mid Street, Fraserburgh, AB43 9JN Tel: 01346 510502 Fax: 01346 515444

Galashiels Office

Burnbrae, Mossilee Road, Galashiels, TD1 1NF Tel: 01896 754797 Fax: 01896 754412

Glasgow Office

Law House, Todd Campus, West of Scotland Science Park Maryhill Road, Glasgow, G20 0XA

Tel: 0141 945 6350 Fax: 0141 948 0006

Glenrothes Office

Pentland Court, Saltire Centre, Glenrothes, KY6 2DA Tel: 01592 776910 Fax: 01592 775923

Lochgilphead Office

2 Smithy Lane, Lochgilphead, PA31 8TA

Tel: 01546 602876 Fax: 01546 602337

Newton Stewart Office

Penkiln Bridge Court, Minnigaff, Newton Stewart, DG8 6AA Tel: 01671 402618

Tel: 01671 402618 Fax: 01671 404121

Orkney Office

Norlantic House, Scott's Road, Hatston Industrial Estate, Kirkwall, Orkney, KW15 1RE Tel: 01856 871080

Perth Office

7 Whitefriars Crescent, Perth, PH2 0PA Tel: 01738 627989 Fax: 01738 630997

Fax: 01856 871090

Shetland Office

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Stirling Office

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