Nuclear Decommissioning Authority

Department of Energy & Climate Change

2013 UK Radioactive Waste Inventory:

Waste Quantities from all Sources

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The 2013 UK Radioactive Waste Inventory

Waste Quantities from all Sources

Report prepared for the Department of
Energy & Climate Change (DECC) and the
Nuclear Decommissioning Authority (NDA)
by Pöyry Energy Limited and Amec plc.

PREFACE

The 2013 United Kingdom Radioactive Waste & Materials Inventory (hereafter referred to as the 2013 Inventory) will provide comprehensive and up-to-date information on radioactive waste and materials as at 1 April 2013. It is part of an ongoing programme of research jointly conducted by the Department of Energy and Climate Change (DECC) and the Nuclear Decommissioning Authority (NDA).

DECC and NDA have commissioned the 2013 Inventory to provide information on the status of radioactive waste stocks (at 1 April 2013) and forecasts of future arisings in the United Kingdom. Additional information on radioactive materials which may become wastes is collated. Its aim is to provide data in an open and transparent manner for those interested in radioactive waste and material issues.

Information collected for the 2013 Inventory is presented in a series of reports, as listed below:

- High Level Summary
- Summary of Data for International Reporting
- Scope and Conventions
- Scenario for Future Radioactive Waste & Material Arisings
- Waste Quantities from All Sources
- Radioactive Waste Composition
- Radioactivity Content of Wastes
- Radioactive Wastes & Materials Not Reported in the 2013 UK Radioactive Waste Inventory.

All documents have been prepared on the basis of information supplied to the 2013 Inventory contractors, Pöyry Energy and Amec. This information was verified in accordance with arrangements established by Pöyry Energy and Amec.

This reporting output provides summary information on radioactive wastes for stocks and future arisings: descriptive information, summary tables, covering volumes, mass and number of waste packages. A comparison with the 2010 Inventory and an explanation of the changes is reported.

Conditions of Publication

Feedback

You are invited to provide feedback to the NDA on the content, clarity and presentation of this report and the UK Radioactive Waste Inventory (i.e. the Inventory). Please do not hesitate to contact the NDA if you have any queries on the Inventory and radioactive waste issues. Such feedback and queries should be addressed to:

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1 INTRODUCTION

This reporting output presents information on the volumes of radioactive wastes in the 2013 Inventory, and on corresponding masses and numbers of waste packages. The information is derived from the volumes, densities and packaging plans for each individual waste stream.[1]

This reporting output should be read in conjunction with the 2013 Inventory *'Scope and Conventions'* reporting output, which provides further clarification on waste stream identification, classification of waste streams and the reporting of waste volumes.

Waste quantities are broken down by waste category; comprising High Level Waste (HLW), Intermediate Level Waste (ILW), Low Level Waste (LLW) and Very Low Level Waste (VLLW).

Annexes 1-4 provide further detail on volumes of wastes at 1 April 2013 and estimated volumes of future waste arisings, and the corresponding numbers of waste packages with associated packaged and conditioned volumes:

- Annex 1 gives consolidated wastes volumes from all sources and separately for England, Scotland and Wales;
- Annex 2 gives waste volumes by business activity; comprising fuel fabrication and uranium enrichment, nuclear power reactors, spent fuel reprocessing, nuclear energy R&D, defence, and medical and industrial.
- Annex 3 gives waste volumes by site, and by organisations that own the sites.
- Annex 4 gives waste volumes for each waste stream in the 2013 Inventory.

Information on LLW disposals in the UK is also given in this reporting output.

2 TOTAL FOR ALL WASTES

2.1 Reported volumes

Waste at 1 April 2013 comprises radioactive materials that had been declared as waste and were being held at this date. The volumes reported are those that the wastes occupied in tanks, vaults, silos, drums etc. in which they were contained.

Many of the wastes existed in either an untreated or partly treated state, while some wastes are being conditioned directly in suitable containers for long-term management as they arise and others have been retrieved from stores and conditioned. For these conditioned wastes the volume reported at 1 April 2013 is the conditioned volume.

In general the reported volumes for future arisings reflect current waste management practices. So for most future arisings the volume reported is that for untreated or partly treated waste. For those waste streams where fresh arisings are being conditioned the volume reported is the conditioned volume.

The total volume of radioactive waste at 1 April 2013 and in estimated future arisings from all sources is 4,490,000m^3. Of this waste 63.2% by volume is VLLW (2,840,000m^3), 30.5% is LLW (1,370,000), 6.4% is ILW (286,000m^3) and less than 0.1% is HLW (1,080m^3).

[1] Individual waste stream volumes cover a wide range (from less than 1m^3 to more than 1,000,000m^3). Summed waste stream volumes are rounded to three significant figures, as any impression of undue arithmetic accuracy can be misleading. Summed numbers of waste packages are also rounded to three significant figures, except for waste packages at 1 April 2013 where the actual numbers being held are reported. Summed waste stream masses are rounded to two significant figures.

Table 1 gives these waste volumes and corresponding masses. Figure 1 illustrates the relative contributions of HLW, ILW, LLW and VLLW to the total radioactive waste volume from all sources.

Table 1: Wastes at 1 April 2013 and estimated for future arisings Reported volumes and masses

	HLW[2]	ILW[3]	LLW[4, 5]	VLLW[6]	Total
Volume (m^3)[1]	1,080	286,000	1,370,000	2,840,000	4,490,000
Mass (tonnes)	2,900	310,000	1,700,000	2,900,000	4,900,000

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported. For HLW conditioned volume and mass are reported. The convention for reporting waste volumes and an explanation of the terms used are given in the reporting output on '*Scope and Conventions'*.

(2) HLW conditioned volume and mass do not include waste from reprocessing overseas spent fuel that will be exported to the country of origin, and assume substitution arrangements are implemented (see Section 7 for further information).

(3) ILW includes 8,090m^3 (7,000te) of waste that are expected to become LLW as a result of decontamination or decay storage.

(4) LLW includes 227,000m^3 (370,000te) of mixed VLLW/LLW at Springfields.

(5) LLW includes 32,800m^3 (47,000te) held in Vaults 8 and 9 at the LLWR, as well as 33,600m^3 (~33,600te) previously disposed at Dounreay that is to be retrieved and repackaged. It does not include waste already disposed in the trenches and in Vault 8 at the LLWR (see Section 8 for further information).

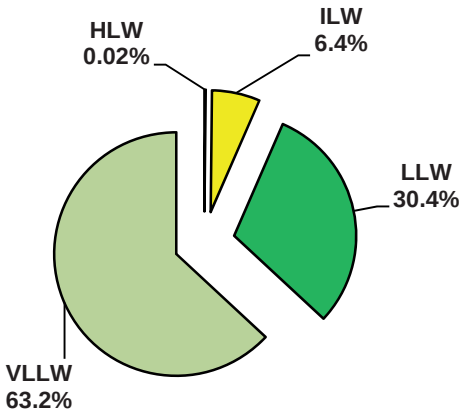
(6) Includes 2,760,000m^3 (2,760,00te) from facility decommissioning at Sellafield. However the current best estimate, albeit based on limited decommissioning experience, is that 70% of this material may be 'out of scope' of regulatory control (i.e. not radioactive for the purposes of UK legislation).

About 73% of all low activity waste (i.e. LLW and VLLW) (3,060,000m^3) falls into the VLLW sub-category or is mixed VLLW/LLW[2]. Much of this waste is forecast to arise from decommissioning existing facilities and site clearance activities. In general current arisings are disposed of to landfill shortly after they arise.

Approximately 97% of VLLW (about 2,760,000m^3) is forecast from plant decommissioning at Sellafield, including reprocessing and associated plants, storage and treatment plants and site service facilities. However, there is a large uncertainty in potential radioactive waste arisings from decommissioning and current expectations are that about 70% of this material may be out of scope of regulatory control. As decommissioning projects at the site are progressed and opportunities for further characterisation arise the projected amounts of radioactive waste will continue to be refined.

[2] Springfields generates low activity waste streams containing wastes that have a range of activity concentrations spanning the VLLW/LLW boundary. The wastes are not separated into the two categories as they can be routinely disposed of to the landfill site at Clifton Marsh, which has a permit to accept radioactive wastes up to 200Bq/g (i.e. comprising VLLW and LLW at the lower end of its activity range).

Figure 1: Proportions of reported waste volumes by type



Note: LLW includes 227,000m^3 of mixed LLW/VLLW (corresponds to about 5% of total waste volume).

2.2 Packaged volumes

The volumes reported in Section 2.1 above can also be expressed in terms of packaged volume. Packaging is the loading of waste into a container for long-term management. In most but not all cases this involves conditioning. The packaged waste volume is the displacement volume of the container. It represents a 'final' waste volume. Knowledge of packaged volumes, and the corresponding numbers of packages, is needed for planning waste storage and disposal facilities.

All HLW and ILW will be packaged for long-term management. For LLW, package numbers exclude those component parts of LLW streams whose characteristics make them suitable for appropriately permitted landfill disposal, as the UK Inventory does not compile information on waste packaging for this disposal route. As VLLW can be disposed to appropriately permitted landfill sites no package numbers are reported for this waste category.

It is estimated that 7,200 HLW packages would be produced and retained in the UK, corresponding to a packaged volume of 1,410m^3.

It is estimated that about 216,000 ILW packages would be produced, corresponding to a packaged volume of 458,000m^3.

It is estimated that about 57,300 LLW packages would be produced. The volume of all LLW after packaging is about 1,420,000m^3 and the volume of VLLW is 2,840,000m^3.

3 WASTES AT 1 APRIL 2013

Waste at 1 April 2013 comprises radioactive materials that had been declared as waste and were being held at this date. The volumes reported are those that the wastes occupied in tanks, vaults, silos, drums etc. in which they were contained.

Many of the wastes existed in either an untreated or partly treated state, while some wastes are being conditioned directly in suitable containers for long-term management as they arise and others have been retrieved from stores and conditioned. For these conditioned wastes the volume reported at 1 April 2013 is the conditioned volume.

At 1 April 2013 the reported volume of radioactive waste in the UK was about 165,000m^3. Table 2 gives the volumes and masses of HLW, ILW, LLW and VLLW from all sources at 1 April 2013. The volumes and masses of wastes not yet conditioned and those already

conditioned for long-term management are given separately. The table also gives the numbers of waste packages in stores at 1 April 2013.

Table 2: Wastes at 1 April 2013
Reported volumes, masses and package numbers

Waste Type	At 1.4.2013	Volume (m^3)(1)	Mass (tonnes)(1)	No of packages(4)(5)
HLW	**Total**	**1,770**	**3,400**	
	Not yet conditioned	931	1,200	0
	Already conditioned	844	2,200	5,626
ILW	**Total**	**95,600**	**120,000**	
	Not yet conditioned(2)	67,500	66,000	1,197
	Already conditioned	28,100	53,000	54,129
LLW(3)	**Total**	**66,700**	**92,000**	
	Not yet conditioned	23,400	30,000	0
	Already conditioned	43,400	62,000	2,549
VLLW	**Total**	**1,170**	**250**	
	Not yet conditioned	1,170	250	0
	Already conditioned	0	0	0

(1) Volume and mass "not yet conditioned" are for untreated or partly treated waste; volume and mass "already conditioned" are the conditioned volume and corresponding mass for wastes that have been encapsulated in a cement-based material, polymer or glass (i.e. waste streams with a /C in the identifier). The convention for reporting waste volumes and an explanation of the terms used are given in reporting output on *'Scope and Conventions'*.

(2) ILW "not yet conditioned" includes 1,340m^3 (1,000te) of waste that is expected to become LLW as a result of decontamination or decay storage.

(3) LLW includes 130m^3 (200te) of mixed VLLW/LLW at Springfields.

(4) ILW package numbers include 1,788 1803-type mild steel drums. These drums are expected to be overpacked in larger capacity boxes (6 drums per box).

(5) LLW package numbers exclude those in short-term storage before consignment to the LLWR and include 645 packages with waste that is being stored unconditioned at Dounreay.

3.1 High Level Waste

HLW is generated from reprocessing spent nuclear fuel at Sellafield. HLW is accumulating in stores at the site, as there is no current disposal route for this waste type.

At 1 April 2013 the reported volume of HLW at Sellafield was about 1,770m^3. The quantity of conditioned HLW in stores is increasing as waste, which is initially stored in a liquid form known as Highly Active Liquor (HAL), undergoes an evaporation process before vitrification into glass blocks within stainless steel canisters. At 1 April 2013 there were 5,626 packages of conditioned HLW in long-term storage.

3.2 Intermediate Level Waste

ILW is also accumulating in stores, as there is no current disposal route for this waste type.

At 1 April 2013 the reported volume of ILW was about 95,600m^3, of which about 69,600m^3 (73%) was at Sellafield. Most of the other ILW was at the Magnox and AGR power stations (11,200m^3 and 3,230m^3 respectively), Dounreay (4,600m^3), Aldermaston (4,030m^3) and Harwell (2,300m^3).

The quantity of conditioned ILW in stores is increasing, as a significant fraction of current arisings are being conditioned. Conditioned ILW comprises various types of waste immobilised

in cement in stainless steel or concrete containers, and wastes immobilised in polymer in mild steel containers. These mild steel containers will be overpacked at a later date.

At 1 April 2013 there were 54,129 packages of conditioned ILW in long-term storage facilities. About 88% of the ILW packages (47,569) were at Sellafield.

3.3 Low Level Waste

At 1 April 2013 the reported volume of LLW was about 66,700m^3. About 32,800m^3 is waste has already been packaged and is in Vaults 8 and 9 at the LLWR in Cumbria[3]. Other notable holdings are at Dounreay (14,400m^3), Sellafield (3,450m^3), Winfrith (4,400m^3), Chapelcross (3,150m^3) and Aldermaston (2,330m^3).

At Dounreay LLW is being packaged and stored pending the planned opening of a new disposal facility at the site in 2014. At Sellafield most of the waste is steel pond furniture, for which the management strategy is decontamination to allow the steel to be released into the clean metals market. At other sites, most LLW at 1 April 2013 was in temporary storage awaiting recycling if suitable, or disposal to landfill or the LLWR.

LLW that is unsuitable for incineration, recycling or landfill disposal is immobilised in cement within mild steel ISO containers and disposed of at the LLWR.

A small fraction of LLW, about 755m^3, was unsuitable for consignment to the LLWR or disposal to landfill because the wastes do not meet current acceptance criteria. Some of these wastes are oils that are to be incinerated; others will likely be disposed of with ILW.

3.4 Very Low Level Waste

At 1 April 2013 the volume of VLLW was about 1,170m^3, of which 1,080m^3 was at Sellafield. All VLLW was in temporary storage awaiting disposal to landfill.

4 FUTURE WASTE ARISINGS

The figures given in the 2013 Inventory for future radioactive waste arisings are projections made by the organisations that operate sites. These forecasts are based on assumptions as to the nature, scale and timing of future operations and activities at their sites[4]. Further information about the basis of future waste arisings, known as the 'scenario', can be found in the reporting output *'Scenario for Future Radioactive Waste & Material Production'*. Projections may need to be amended as plans and arrangements are developed or are changed for commercial, policy or funding reasons, or if improved data become available.

In general reported volumes for future arisings reflect current waste management practices. So for most future arisings the volume reported is that for untreated or partly treated waste. For those waste streams where fresh arisings are being conditioned the volume reported is the conditioned volume.

Table 3 gives the total volumes and masses of HLW, ILW, LLW and VLLW from all sources projected to arise after 1 April 2013. Future arisings are forecast on the basis of information given in the reporting output scenario for future waste arisings.

Table 3: Estimated future waste arisings

[3] A portion of the waste in Vault 8 and all of the waste in Vault 9 at the LLWR is currently classed as stored, not disposed. Volumes of disposed LLW are given in Section 8.

[4] The period over which forward projections of waste are made varies from site to site and depends on forecast future operations and the timing of plant decommissioning activities. The 2013 Inventory includes waste up to 2120.

Reported volumes and masses

	HLW[(1) (2)]	ILW[(3)]	LLW[(4)]	VLLW[(4)]	Total
Volume (m^3)	-695	190,000	1,300,000	2,840,000	4,330,000
Mass (tonnes)	-560	190,000	1,700,000	2,900,000	4,700,000

(1) Quantities of HLW represent the change in volume and mass at 1 April 2013 once all HLW is conditioned. Quantities of ILW and LLW are for untreated or partly treated waste, apart from conditioned waste streams (i.e. those with a /C in the identifier) where the conditioned volume and mass are reported. The convention for reporting waste volumes and an explanation of the terms used are given in the reporting output on *'Scope and Conventions'*.

(2) HLW conditioned volume and mass do not include waste from reprocessing overseas spent fuel that will be exported to the country of origin, and assume substitution arrangements are implemented (see Section 7 for further information.

(3) ILW includes 6,750m^3 (6,000te) of waste that are expected to become LLW as a result of decontamination or decay storage.

(4) LLW includes 227,000m^3 (370,000te) of mixed VLLW/LLW at Springfields.

4.1 High Level Waste

HLW is generated from reprocessing spent nuclear fuel at Sellafield. Future arisings are forecast from continuing Magnox and oxide fuel reprocessing. In the 2013 Inventory scenario Magnox reprocessing is scheduled to end in 2017 and oxide reprocessing around 2018.

Information for HLW is reported in a different way to that for ILW and LLW because volumes will actually fall in the future. There are two reasons for this. The first and most significant reason is that HLW is initially stored in a liquid form (HAL), which will later undergo an evaporation process before vitrification into glass blocks. The vitrified glass blocks produced are roughly one-third of the volume of the original HAL. The second reason is that future arisings of HLW are net of exports to overseas reprocessing customers (see Section 7 for more information).

The figure of -695m^3 in Table 3 is the anticipated decrease in the HLW volume existing at 1 April 2013 once all HLW has been conditioned into glass blocks.

Sellafield currently forecasts that operations to produce vitrified HLW will end in around 2021; although further vitrified wastes will arise during the subsequent Post Operational Clean Out (POCO) phase, which is expected to continue until 2027.

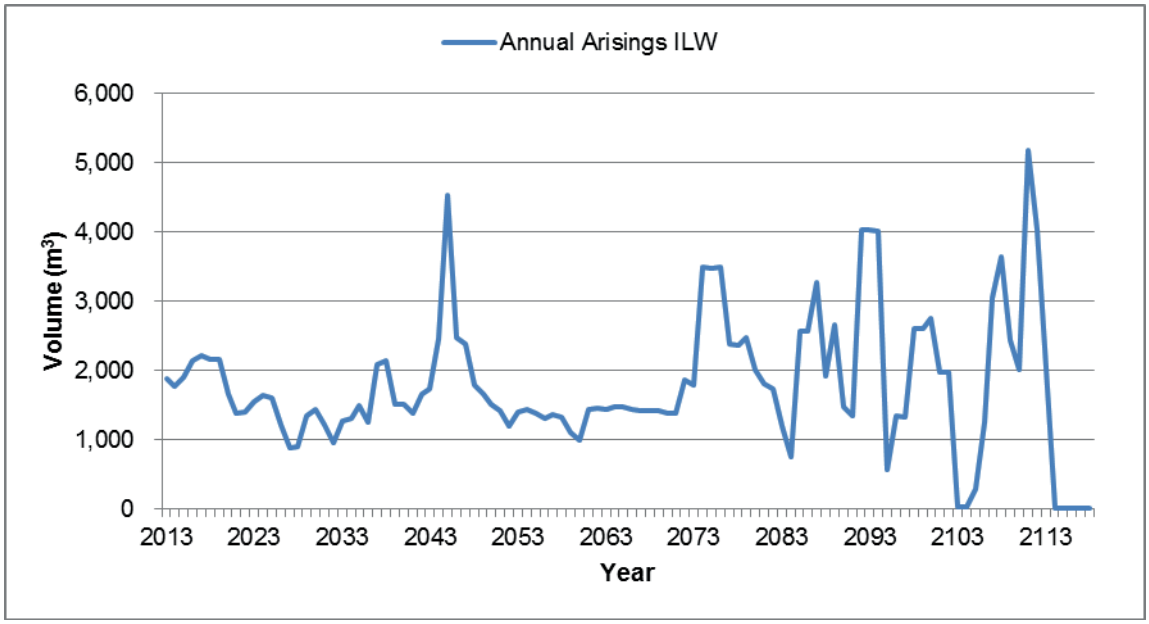
4.2 Intermediate Level Waste

The forecast future arisings of ILW are about 190,000m^3. About 59% (112,000m^3) is from Sellafield. Most of the other ILW is from the other Magnox power station sites (43,400m^3) and the AGR power station sites (20,900m^3).

About 63% (121,000m^3) of all forecast future arisings are from decommissioning of existing reactors and other facilities. The remainder are from operational activities.

Figure 2 illustrates the pattern of future annual arisings volumes.

Figure 2: ILW future arisings
Annual reported volumes



Forecast annual arisings of ILW are between about 1,000m^3 and 2,000m^3 in the period up to about 2070 largely from legacy waste conditioning and facilities decommissioning at Sellafield. (The spike at 2045 is due to pond skips at Sellafield that have been reported as waste arisings at the midpoint of POCO of the first generation Magnox storage pond. However it is likely that this waste would be generated over a longer period). Final dismantling and site clearance at Magnox and AGR stations between 2070 and 2118 give rise to increased waste volumes over this period.

4.3 Low Level Waste

The forecast future arisings of LLW are about 1,300,000m^3. This includes about 227,000m^3 of mixed LLW/VLLW from Springfields.

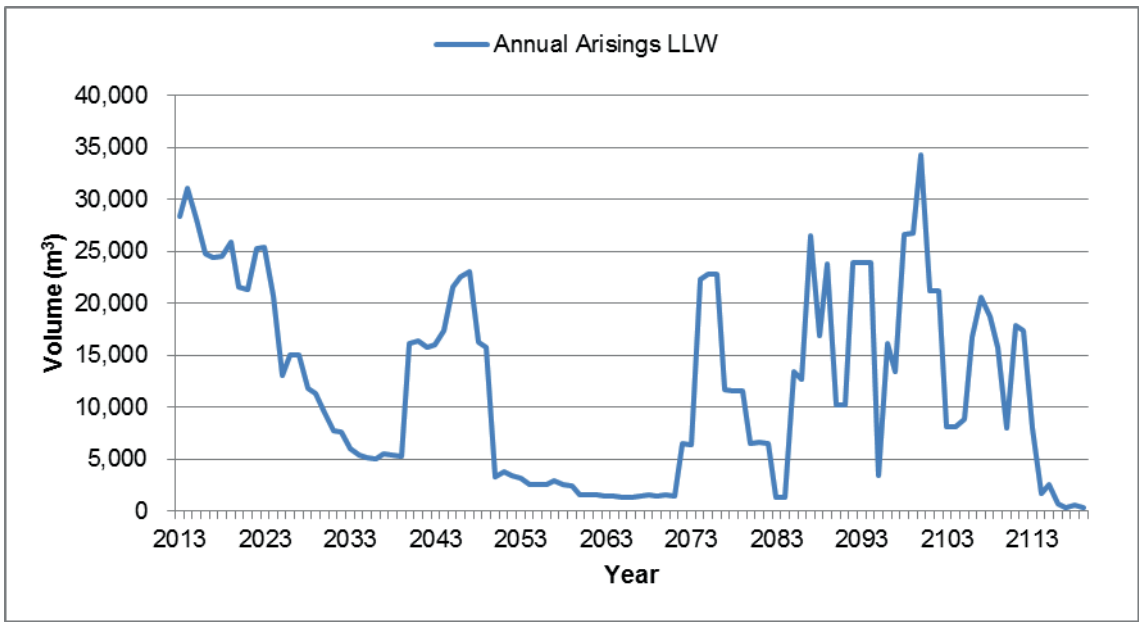
About 36% (469,000m^3) of all forecast future LLW arisings are from Magnox power station sites (excluding Calder Hall). Much of the other LLW is from Sellafield (291,000m^3 - including 40,400m^3 from Calder Hall), Springfields (228,000m^3), AGR power stations (110,000m^3), and Dounreay (84,000m^3).

Approximately 85% (1,110,000m^3) of all forecast future arisings of LLW are from decommissioning of existing reactors and other facilities and site remediation. Only 15% (192,000m^3) are from operations; about 63% (122,000m^3) of which is from Sellafield.

Final stage decommissioning of reactors and ancillary plant at Magnox and AGR power stations is forecast to produce 433,000m^3 and 61,000m^3 of LLW respectively. Decommissioning of uranium processing and fabrication facilities at Springfields is forecast to produce 202,000m^3 of LLW. At Sellafield about 169,000m^3 of decommissioning and site remediation wastes is associated with the dismantling and demolition of the Calder Hall nuclear power station and with spent fuel reprocessing and other facilities.

Figure 3 illustrates the pattern of future annual arisings volumes.

Figure 3: LLW future arisings
Annual reported volumes



Forecast annual arisings of LLW show a decrease from about 30,000m^3 to 5,000m^3 over the period from 2013 up to 2040. This is the result of a number of factors including the completion of Magnox and oxide fuel reprocessing operations at Sellafield, the completion of Care and Maintenance (C&M) Preparations at Magnox stations, the closure of AGR power stations and the completion of defuelling and C&M Preparations, and the completion of decommissioning activities at Dounreay, Harwell and Winfrith.

From 2040 up to 2050 forecast annual arisings are higher as a result of the decommissioning of uranium processing and fabrication facilities at Springfields. From 2050 up to 2070 average annual arisings decrease from about 3,000m^3 to about 1,500m^3, and much of the waste is from facilities decommissioning at Sellafield.

Final dismantling and site clearance at Magnox and AGR stations between 2070 and 2118 give rise to increased waste volumes over this period.

4.4 Very Low Level Waste

The forecast future arisings of VLLW are about 2,840,000m^3. About 97% (2,760,000m^3) of this volume is attributable to waste from the decommissioning of reprocessing and associated plants, waste storage and treatment plants, and site service facilities at Sellafield. However, there is a large uncertainty in potential radioactive waste arisings from decommissioning and current expectations are that about 70% of this material, which comprises concrete, brick and metal from building structures, may be out of scope of regulatory control. As decommissioning projects at the site are progressed and opportunities for further characterisation arise the projected amounts of radioactive waste will continue to be refined.

Forecast annual arisings of VLLW are on average about 6,000m^3 in the period up to 2030. Thereafter they are higher as decommissioning activities at Sellafield increase. From 2030 up to 2040 the total forecast average annual arisings are about 16,000m^3, from 2040 up to 2060 about 29,000m^3, from 2060 up to 2100 about 26,000m^3 and from 2100 up to 2120 about 49,000m^3.

5 COMPARISON WITH PREVIOUS INVENTORIES

Inventories of radioactive wastes in the UK have been prepared periodically since 1984. During this time wastes have been accumulated, estimates of future arisings have changed as new information became available and plans were amended, and increasing quantities of waste have been packaged for long-term management. The information presented here summarises the changes compared with volumes in the 2010 Inventory report [2]. The principal reasons for differences in waste volumes are outlined. The trends in projected waste volumes are also illustrated, with information from Inventory reports published over the past ten years.

For wastes at 1 April 2013, most remain in an untreated or partly treated state. However, legacy wastes at many sites are being retrieved from stores and packaged for long-term management. The nature of retrieval and packaging depends on the current operational or decommissioning status of the sites. Furthermore, current arisings from the Fuel Handling Plant (FHP) and the Magnox and Thorp reprocessing plants at Sellafield are being packaged as they arise.

Progress in the packaging of wastes, as indicated by the accumulation in the numbers of waste packages over time, is illustrated in Table 4. Packaging of HLW and ILW began on the Sellafield site in 1990 with the start-up of the Waste Vitrification Plant (WVP) and the Magnox Encapsulation Plant (MEP). Since then further ILW conditioning facilities have been built and are operating at Sellafield and at a number of other sites.

Since 2007 the inventory has included LLW packages stored in vaults at the LLWR that had not been classed as disposed. This explains the large increase at 1 April 2007. At 1 April 2010 and 1 April 2013 most of the packages in Vault 8 were classed as disposed. Package numbers at 1 April 2010 and 1 April 2013 include only packages stored in Vault 8 and Vault 9.

Table 4: Numbers of waste packages accumulated [(1)]

Date	HLW	ILW	LLW [(4)]	Total
At 1.4.1994 [(2)]	529	4,466	0	4,995
At 1.4.1998	1,633	17,027	0	18,660
At 1.4.2001	2,281	21,654	23	23,958
At 1.4.2004	3,037	31,557	123	34,717
At 1.4.2007	4,319	40,797	8,527	53,643
At 1.4.2010	5,108	47,662	1,288	54,058
At 1.4.2013 [(3)]	5,626	55,326	2,549	63,501

(1) The table gives the numbers of packages accumulated at various UK Inventory reference dates. There are no VLLW packages.

(2) Packages at 1.4.1994 are estimates based on reported conditioned volumes in the 1994 Inventory.

(3) At 1.4.2013 HLW packages were at Sellafield, ILW packages were at Sellafield, Dounreay, Harwell, Winfrith, Trawsfynydd and Bradwell, and LLW packages were at the LLWR, Dounreay and Sellafield.

(4) LLW package numbers exclude those in short-term storage before consignment for disposal. Packages at 1.4.2007, 1.4.2010 and 1.4.2013 include those held in vaults at the LLWR and which had not been classed as disposed. Most of the packages reported at 1.4.2007 were subsequently classed as disposed.

5.1 High Level Waste

Table 5 gives the reported volume changes in accumulated HLW and estimated future arisings compared with the 2010 Inventory. Future arisings show the planned fall in the total accumulated volume of HLW as existing and fresh arisings of liquid waste are conditioned to produce a solid glass product of lower volume.

Table 5: Changes in HLW reported volumes between the 2013 and 2010 Inventories

Volume (m^3)	2013 Inventory	2010 Inventory	Change
At 1 April (already conditioned)	844	766	+78
At 1 April (not yet conditioned)	931	850	+81
Total at 1 April	1,770	1,620	+159
Future arisings (1)	-695	-601	-94
Total (conditioned)	**1,080**	**1,020**	**+64**

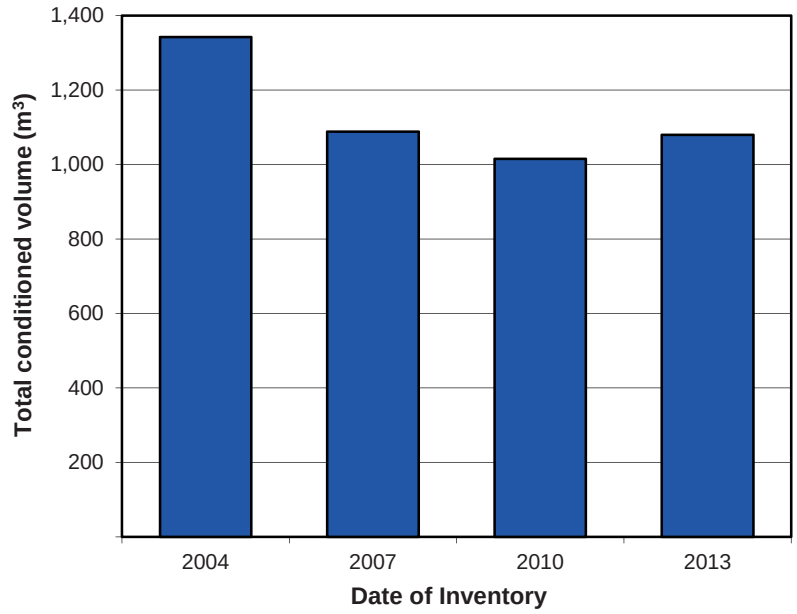
(1) Future arisings is the anticipated decrease in the volume existing at 1 April once all liquid HLW at 1 April and arising in the future has been conditioned.

The total conditioned volume of HLW is estimated to be about 1,080m^3, which is 64m^3 (6.3%) more than forecast in the 2010 Inventory. The principal reason for this increase is a higher waste estimate from POCO of the high level waste plants at Sellafield.

The total volume of HLW at 1 April 2013 was 1,770m^3, an increase of 159m^3 (9.8%) compared with waste at 1 April 2010. This increase is the result of two factors: an increase of 81m^3 in liquid waste and an increase of 78m^3 in conditioned waste from Magnox and oxide fuel reprocessing at Sellafield.

Figure 4 shows that forecasts of HLW since the 2007 Inventory are similar. Changes reflect the scale of spent fuel reprocessing, assumptions regarding POCO of the high level waste plants and the level of waste incorporation in the vitrified product.

Figure 4: HLW past and current volume projections (conditioned waste)



5.2 Intermediate Level Waste

Table 6 gives the reported volume changes in accumulated ILW and estimated future arisings compared with the 2010 Inventory.

Table 6: Changes in ILW reported volumes between the 2013 and 2010 Inventories

Volume (m^3)	2013 Inventory	2010 Inventory	Change
At 1 April (already conditioned)	28,100	24,500	+3,560
At 1 April (not yet conditioned)	67,500	69,800	-2,330
Total at 1 April	95,600	94,300	+1,230
Total in future arisings(1)	190,000	192,000	-2,160
Total	**286,000**	**287,000**	**-931**

(1) Future arisings are untreated or partly treated waste, apart from conditioned waste streams (i.e. those with a /C in the identifier) where the conditioned volume is reported. The convention for reporting waste volumes and an explanation of the terms used are given in the reporting output on *'Scope and Conventions'*.

The total reported volume of ILW is estimated to be 286,000m^3, which is only 931m^3 or about 0.3% less than forecast in the 2010 Inventory. While the total volume of ILW has changed marginally, there have been some notable changes at a number of sites as a result of revised estimates of future arisings. The principal changes are:

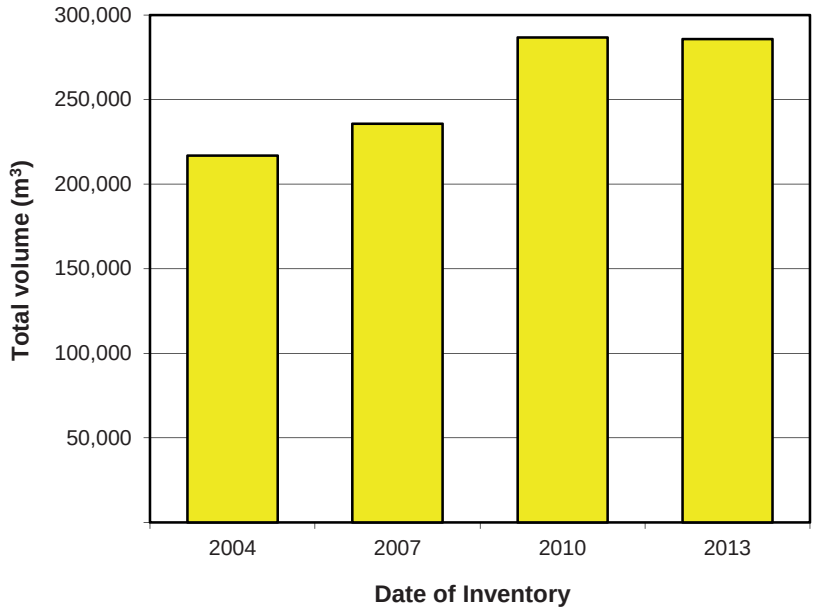
- A re-assessment of plutonium contaminated material (PCM) arisings at Sellafield, resulting in an increase of 3,430m^3;
- A re-assessment and refinement of wastes from submarine decommissioning, resulting in a decrease of 2,240m^3;
- The reclassification of Steam Generating Heavy Water Reactor (SGHWR) sludges as LLW and a re-evaluation of wastes from reactor decommissioning at Winfrith, resulting in an overall ILW decrease of 860m^3.

The total volume of ILW at 1 April 2013 was 95,600m^3, an increase of 1,230m^3 or about 1.3% compared with waste at 1 April 2010. Conditioned wastes were 3,560m^3 (15%) greater at 28,100m^3, while accumulations of wastes yet to be conditioned were 2,330m^3 (3.3%) lower at 67,500m^3. Additional ILW accumulations have resulted in increased volumes at a number of sites, principally Sellafield and Dounreay. The larger increase in the volume of conditioned ILW at 1 April 2013 illustrates the progress in waste packaging. Lower ILW volumes were reported at Aldermaston, Winfrith and for decommissioned submarines at Devonport and Rosyth as a result of wastes being recategorised as LLW.

Projected future arisings of ILW are about 190,000m^3. This is 2,160m^3 (1.1%) less than future arisings reported in the 2010 Inventory.

Figure 5 shows that forecasts of ILW volume have changed in past inventories as the scale of projected future activities and estimates of waste arisings have been revised. Revisions to decommissioning waste estimates have been particularly significant as programmes have been refined.

Figure 5: ILW past and current reported volume projections



5.3 Low Level Waste & Very Low Level Waste

The 2010 Inventory did not separately report volumes of VLLW; these were included within the LLW category. So for the purposes of comparison the combined volumes of LLW and VLLW in the 2013 Inventory have been used.

Table 7 gives the reported volume changes in accumulated LLW/VLLW and estimated future arisings compared with the 2010 Inventory.

Table 7: Changes in LLW/VLLW reported volumes between the 2013 and 2010 Inventories

Volume (m^3)	2013 Inventory	2010 Inventory	Change
At 1 April (already conditioned)	43,400	21,700	+21,700
At 1 April (not yet conditioned)	24,500	44,300	-19,800
Total at 1 April	67,900	66,000	+1,900
Total in future arisings(1)	4,140,000	4,360,000	-223,000
Total	**4,210,000**	**4,430,000**	**-221,000**

(1) Future arisings are untreated or partly treated waste, apart from conditioned waste streams (i.e. those with a /C in the identifier) where the conditioned volume is reported. The convention for reporting waste volumes and an explanation of the terms used are given in reporting output on *'Scope and Conventions'*.

The total volume of LLW/VLLW is estimated to be 4,210,000m^3, which is about 221,000m^3 or about 5% less than forecast in the 2010 Inventory.

This is the net result of a number of changes to LLW/VLLW volumes. The principal changes are:

- A change in the assumptions underpinning the estimate of HVVLLW from decommissioning projects at Sellafield, resulting in a decrease of 106,000m^3;
- A re-evaluation of future operational LLW from facilities across the Sellafield site based on recent years production so giving a more realistic projection, resulting in a decrease of about 76,800m^3;
- A reassessment of high volume low activity wastes from decommissioning and site remediation at Harwell, resulting in a decrease of 58,400m^3;
- A 'SMART' inventory review of wastes from Care & Maintenance Preparations at Magnox decommissioning sites has led to some large reductions in forecast LLW volumes. At Chapelcross this has resulted in a decrease of about 45,700m^3. Also at Chapelcross characterisation of contaminated asbestos, previously classified as VLLW, has shown the material to be exempt from regulatory control, resulting in a decrease of 28,200m^3;
- A 'SMART' inventory review of final site clearance at Magnox power stations has led to a revised strategy for reactor bioshield dismantling, resulting in an increase in LLW concrete of about 135,000m^3.

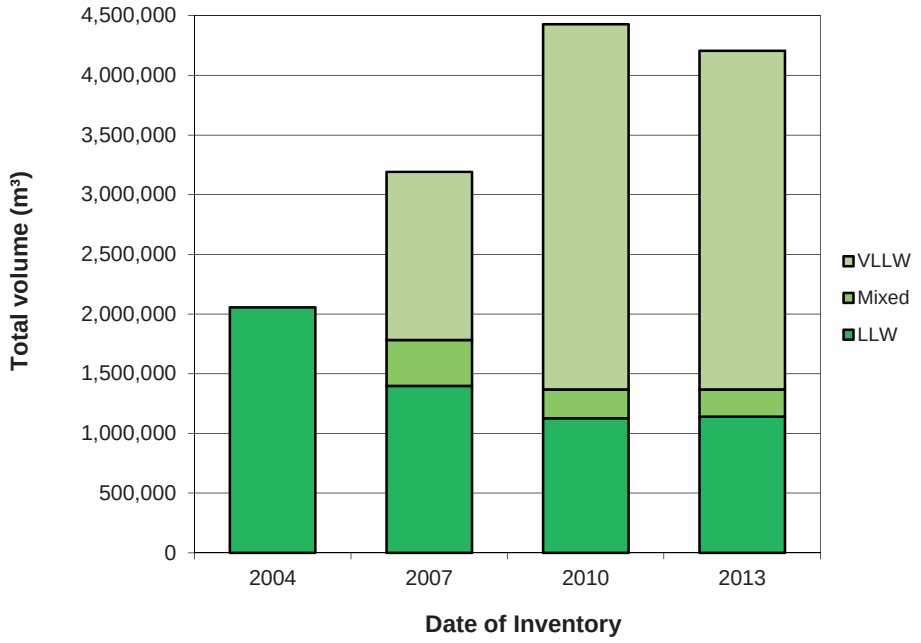
The total reported volume of LLW at 1 April 2013 was 67,900m^3, an increase of 1,900m^3 compared with waste at 1 April 2010. There has been an increase in accumulations of decommissioning waste at a number of sites, including at Dounreay (about 3,500m^3) where waste is being stored until a new site LLW disposal facility is operational. At most sites volumes in temporary storage awaiting off-site disposal largely determine accumulations at any particular date.

There has been a decrease in stocks of pond furniture at Sellafield (about 2,150m^3) and in accumulations of over 8,000m^3 of Care & Maintenance Preparations waste at Chapelcross which are now classified as exempt.

Projected future arisings of LLW are 4,140,000m^3. This is about 223,000m^3 (5.1%) less than future arisings reported in the 2010 Inventory.

Figure 6 above shows that forecasts of low activity waste volumes have changed in past inventories as the scale of projected future activities and estimates of waste arisings have been revised. Of most significance has been the inclusion of HVVLLW from nuclear licensed sites, in particularly Sellafield, and mixed VLLW/LLW from Springfields. Such wastes were not included in the 2004 Inventory, and estimates of volumes have been refined since their inclusion in the 2007 Inventory.

Figure 6: LLW and VLLW past and current reported volume projections (1-4)



(1) The 2004 Inventory includes only LLW. It does not include VLLW or mixed VLLW/LLW.

(2) The 2007 Inventory includes only 1,410,000m^3 (1,500,000te) of VLLW and a further 385,000m^3 (630,000te) of mixed VLLW/LLW.

(3) The 2010 Inventory includes 3,060,000m^3 (3,080,000te) of VLLW and a further 239,000m^3 (375,000te) of mixed VLLW/LLW.

(4) The 2013 Inventory includes 2,840,000m^3 (2,900,000te) of VLLW and a 227,000m^3 (370,000te) of mixed VLLW/LLW.

6 WASTES FOR ENGLAND, SCOTLAND AND WALES

Responsibility for radioactive waste management in England rests with the UK Government. On 1 July 1999 responsibility for radioactive waste management in Scotland and Wales was devolved to the Scottish Executive and the National Assembly for Wales respectively.

Table 8 below gives reported volumes of waste separately for England, Scotland and Wales at 1 April 2013, in projected future arisings and in total. Further information on the corresponding numbers of waste packages with associated packaged and conditioned volumes is given in Annex 1.

The volumes for England include wastes currently stored in vaults at the LLWR in Cumbria – these wastes originated from sites throughout the UK. Also, some of the radioactive wastes produced in England (at Sellafield) are from the reprocessing of spent fuel from reactors in Scotland and Wales.

In terms of reported volumes, approximately 91% of all radioactive wastes in the UK at 1 April 2013 and in estimated future arisings are located in England, 6% in Scotland and 3% in Wales.

There are currently no nuclear licensed sites in Northern Ireland; only very small quantities of low activity radioactive waste are produced there from hospitals and industry. These wastes are disposed of to landfill and are not within the scope of the 2013 Inventory (see reporting output on *'Scope and Conventions'*).

Table 8: Wastes at 1 April 2013 and estimated for future arisings [1, 2]

England

Waste Type		Volume (m^3)	Mass (tonnes)
HLW	**Total**	**1,080**	**2,900**
	1.4.2013	1,770	3,400
	Future arisings	-695	-560
ILW	**Total**	**246,000**	**250,000**
	1.4.2013	83,800	100,000
	Future arisings	162,000	150,000
LLW	**Total**	**1,010,000**	**1,300,000**
	1.4.2013	48,000	67,000
	Future arisings	966,000	1,200,000
VLLW	**Total**	**2,840,000**	**2,900,000**
	1.4.2013	1,150	240
	Future arisings	2,840,000	2,900,000

Scotland

Waste Type		Volume (m^3)	Mass (tonnes)
HLW	**Total**	**0**	**0**
	1.4.2013	0	0
	Future arisings	0	0
ILW	**Total**	**25,600**	**36,000**
	1.4.2013	8,610	10,000
	Future arisings	17,000	26,000
LLW	**Total**	**237,000**	**310,000**
	1.4.2013	18,500	25,000
	Future arisings	219,000	280,000
VLLW	**Total**	**1,040**	**840**
	1.4.2013	14	4.2
	Future arisings	1,020	840

Wales

Waste Type		Volume (m^3)	Mass (tonnes)
HLW	**Total**	**0**	**0**
	1.4.2013	0	0
	Future arisings	0	0
ILW	**Total**	**14,200**	**20,000**
	1.4.2013	3,090	6,200
	Future arisings	11,100	14,000
LLW	**Total**	**117,000**	**160,000**
	1.4.2013	285	280
	Future arisings	117,000	160,000
VLLW	**Total**	**39.8**	**18**
	1.4.2013	0.8	0.24
	Future arisings	39	18

(1) Reported volumes and masses are given for wastes that are located in and are forecast to arise in each country. Note that while all HLW arises and is stored in England (at Sellafield) proportions are from the reprocessing of spent fuel from power stations in Scotland and Wales.

(2) The totals for HLW are conditioned volume and mass. Quantities of ILW and LLW are for untreated or partly treated waste, apart from conditioned waste streams (i.e. those with a /C in the identifier) where the conditioned volume and mass are reported. The convention for reporting waste volumes and an explanation of the terms used are given in the reporting output on *'Scope and Conventions'*.

6.1 England

In England the total reported volume of radioactive waste at 1 April 2013 and in estimated future arisings is 4,100,000m^3. Radioactive waste production is dominated by Sellafield. In summary:

- The total volume of HLW (1,080m^3) produced in England is that for the UK as a whole. All HLW is generated from reprocessing spent nuclear fuel at Sellafield;
- The total volume of ILW is 246,000m^3, only 1,400m^3 less than forecast in the 2010 Inventory. The principal changes are at Sellafield and Winfrith and for submarine decommissioning ILW (see Section 5.2 above);
- The total volume of LLW and VLLW is 3,850,000m^3. This is 200,000m^3 less than forecast in the 2010 Inventory.

Once all wastes have been packaged for long-term management it is estimated that:

- 7,200 HLW packages would be produced and retained in the UK, corresponding to a packaged volume of 1,410m^3;
- 197,000 ILW packages would be produced, corresponding to a packaged volume of 394,000m^3;
- 38,300 LLW packages would be produced. The volume of all LLW after packaging is about 1,020,000m^3 and the volume of VLLW is 2,840,000m^3.

6.2 Scotland

In Scotland the total reported volume of radioactive waste at 1 April 2013 and in estimated future arisings is 264,000m^3. Most waste is from Dounreay and the Magnox power station sites at Chapelcross and Hunterston. In summary:

- No HLW is generated in Scotland;
- The total volume of ILW is 25,600m^3, only 140m^3 more than forecast in the 2010 Inventory;
- The total volume of LLW and VLLW is 237,000m^3. This is about 37,800m^3 less than forecast in the 2010 Inventory, and is principally the result of changes at Chapelcross and Dounreay. The 'SMART' inventory review at Chapelcross together with LLW disposals from the site have been the major factors in a reduction of 59,000m^3. At Dounreay the projected LLW volume is greater by about 25,000m^3. In the 2010 Inventory it was assumed that half of the waste to be retrieved from the old LLW disposal pits would be exempt. This is no longer the case. All this waste will now be packaged and consigned to the new site LLW disposal facility. The result is an additional 16,800m^3 in the 2013 Inventory. Also at Dounreay LLW arisings from plant decommissioning have been revised and refined following a predictive inventory exercise, and LLW accumulations have increased pending the opening of the new disposal facility.

Once all wastes have been packaged for long-term management it is estimated that:

- 16,900 ILW packages would be produced, corresponding to a packaged volume of 41,200m^3;
- 12,300 LLW packages would be produced. The volume of all LLW after packaging is about 271,000m^3 and the volume of VLLW is 1,040m^3.

6.3 Wales

In Wales the total reported volume of radioactive waste at 1 April 2013 and in estimated future arisings is 131,000m^3. In Wales nearly all waste is from the Magnox power station sites at Trawsfynydd and Wylfa. In summary:

- No HLW is generated in Wales;
- The total volume of ILW is 14,200m^3, about 400m^3 more than forecast in the 2010 Inventory;
- The total volume of LLW and VLLW is 117,000m^3. This is about 11,000m^3 more than forecast in the 2010 Inventory, and is the result of the 'SMART' inventory review process at Trawsfynydd and Wylfa.

Once all wastes have been packaged for long-term management it is estimated that:

- 1,450 ILW packages would be produced, corresponding to a packaged volume of 22,300m^3;
- 6,640 LLW packages would be produced. The volume of all LLW after packaging is about 133,000m^3 and the volume of VLLW is 40m^3.

7 WASTES FROM OVERSEAS MATERIALS

A proportion of the waste from the Thorp and Magnox reprocessing plants at Sellafield results from reprocessing overseas spent fuel. All reprocessing contracts with overseas customers signed since 1976 include a provision to return packaged wastes or their equivalent (by internationally agreed substitution arrangements) back to the country of origin.

Government policy is that wastes resulting from the reprocessing of overseas spent fuel should be returned to the country of origin, and HLW should be returned as soon as

practicable after vitrification. The policy allows "waste substitution" arrangements that ensure broad environmental neutrality for the UK. Waste substitution is the process whereby an additional amount of HLW from reprocessing would be returned, which is smaller in volume but equivalent in radiological terms to customers' ILW and LLW that would otherwise be returned.

Exports of vitrified HLW started in January 2010 and are scheduled to continue for about ten years. In total about 1,575 canisters of vitrified HLW (about 236m^3) is planned for export, and this volume assumes that substitution arrangements are implemented. Future arisings of HLW are net of exports to overseas reprocessing customers, so that the total volume/number of containers represents only the HLW that is a UK liability.

During the 1990s about 1,000 tonnes of materials test reactor fuel was reprocessed at Dounreay for customers in Belgium, Germany, the Netherlands and Australia. The contracts for this work require that the radioactive wastes produced be returned to the countries of origin within 25 years of reprocessing. The contracts are backed by inter-governmental letters. Wastes are currently being repatriated to Belgium. In 2012 the Scottish and UK governments agreed in principle to allow waste substitution for these customers. The 2013 Inventory includes 75m^3 of raffinate (210m^3 when packaged) subject to return.

8 DISPOSALS OF WASTE

Between 1949 and 1982 about 33,000m^3 of packaged radioactive waste were disposed of in the North Atlantic and UK coastal waters[5].

Since 1959 most of the UK's solid LLW has been transported to the near-surface disposal facility, the LLWR, in Cumbria. Between 1959 and 1995 about 800,000m^3 of drummed, bagged and loose waste was disposed in a series of clay-lined trenches and covered with soil[6].

Since 1988 most waste has been placed in large metal containers, similar to shipping containers. These are then filled with cement and placed in engineered concrete vaults (Vaults 8 & 9). Suitable LLW is first supercompacted to minimise its volume. In this process drums or boxes of waste are compacted under high pressure of up to 2,000 tonnes per square metre.

At 1 April 2013 disposed waste containers in Vault 8 occupied approximately 182,000m^3. A small proportion of the waste containers in Vault 8 and all waste containers in Vault 9 are not yet classed as disposed[7]; these stored containers are included in the LLW quantities presented throughout this report.

Consignments to the LLWR over the past ten years have totalled about 91,000m^3 (see Table 9). There is a trend to smaller annual consignment volumes driven by application of the waste hierarchy[8].

Table 9: Annual consignments to the LLWR 2003 – 2012

[5] This disposal route is closed.
[6] Disposal in the trenches at the LLWR is closed. As a result of compaction, the waste in the trenches occupies a volume of about 500,000m^3. The trenches have been covered by an interim soil cap; a final cap will be constructed over the trenches and vaults as part of site closure engineering.
[7] The current disposal permit issued by the Environment Agency (EA) applies to waste in the trenches and that originally planned for Vault 8, it does not apply to waste in Vault 9 and higher stacked waste in Vault 8.
[8] Central to the UK-wide strategy for managing LLW from the nuclear industry is an effective application of the waste hierarchy, with a preference for managing LLW at higher levels of the hierarchy and a move away from the past focus on disposal. The strategy makes best use of existing disposal capacity at the LLWR, and the extent to which other management and disposal options (e.g. recycling of metals, incineration of combustibles and recategorisation as VLLW with disposal to landfill) might be employed [3].

Year	Total volume (m^3) (1)
2003	11,400
2004	12,900
2005	12,800
2006	12,900
2007	9,100
2008	8,600
2009	7,000
2010	4,830
2011	6,700
2012	4,820

(1) Volume is for waste and its primary containment.

Waste for consignment to the LLWR must comply with the site's Waste Acceptance Criteria, which stipulate that certain materials must not be present in the waste, and places limits on the maximum concentration of certain radionuclides for which the LLWR has authorised annual disposal limits.

To comply with the Waste Acceptance Criteria wastes must also have a valid Waste Characterisation form (WCH) at the time of disposal. The WCH describes the physical, chemical and radionuclide content, gives estimated arisings, conditioning and packaging information, and a justification of assessment methodology.

The capacity of the LLWR is subject to a permit from the Environment Agency (EA) for further waste disposals, and planning consent for additional engineered concrete vaults. For current operational planning purposes, it is currently assumed that the site will operate beyond 2080 and will generate small quantities of LLW from operational and maintenance activities.

There is a disposal facility at Dounreay consisting of six shallow pits, which in the past was used for LLW from the site and from the adjacent MoD Vulcan site. Total disposals are about 33,600m^3. As the facility does not meet current standards, the waste is to be retrieved, repackaged and consigned to a new solid LLW disposal facility adjacent to the Dounreay site. This facility is scheduled to operate from 2014 subject to regulatory authorisation by the Scottish Environment Protection Agency (SEPA). Current LLW arisings are being stored on the licensed site as an interim measure while this new facility is developed.

Certain low activity solid wastes from the major waste producers, comprising HVVLLW and LLW with radioactivity at the lower end of the range, are disposed of to off-site landfill where authorised, and a few nuclear licensed sites have authorised on-site disposal.

There is considerable uncertainty surrounding long-term waste routing projections. However, an indicative analysis of projected LLW disposal routes as declared by waste organisations in the 2013 inventory shows the following:

- About 124,000m^3 (9%) is expected to be recycled or incinerated;
- About 279,000m^3 (20%) is expected to go to landfill;
- About 473,000m^3 (35%) is expected to be disposed of to the LLWR or the Dounreay LLW disposal facility, with supercompaction of suitable waste;
- About 441,000m^3 (32%) is not expected to be disposed of to the LLWR. This is waste from final site clearance at nuclear power stations that will arise after the projected lifetime of the LLWR;

- About 10,500m^3 (1%) is unsuitable for disposal to the LLWR. This is predominantly Magnox and AGR core graphite;
- About 40,000m^3 (3%) does not yet have a confirmed management route.

Table 10 gives a projection of waste consignments to the LLWR over the next few years. The values are packaged volumes for waste streams that are identified in the 2013 Inventory as routinely consigned to the LLWR or in interim storage pending future consignment to the LLWR. The former category accounts for about 98% of the waste. A further 11,500m^3 are identified as "expected to be disposed of to the LLWR" over the same period. Most of this waste is concrete, steel, rubble and soil from facilities decommissioning.

There are no disposal facilities in the UK for HLW and ILW; these wastes are being accumulated in stores. The policy of the UK Government and devolved administrations for Wales and Northern Ireland is geological disposal. A Geological Disposal Facility (GDF) is at an early stage of development. The policy of the Scottish Government is that long-term management should be in near-surface facilities.

Table 10: Projected future consignments to the LLWR 2013 – 2018

Year (1)	Total volume (m^3)(2)
2013	7,100
2014	6,820
2015	5,160
2016	5,190
2017	4,410
2018	3,820

(1) Financial years.

(2) Volume is the packaged volume and reflects the effect of both waste compaction and containerisation.

9 UNCERTAINTY IN WASTE VOLUMES

For wastes in storage there is a high level of confidence in the volume, based on records and measurements.

The greatest uncertainties rest with future arisings of waste; particularly from facilities decommissioning and site clean-up where past operational experience is less relevant. As site decommissioning and clean-up plans are further developed, and full characterisation work becomes possible, current estimates of the extent and level of activation and potential contamination can be refined and the uncertainties in waste volumes reduced.

The 2013 Inventory includes information on the confidence levels in waste stream stock and future arising volumes. Where lower and upper uncertainties on the reported volumes can be quantified, waste producers have provided appropriate factors. These data have been used to derive overall lower and upper waste volume estimates for each waste type (see Table 11).

Table 11: Projected uncertainties in wastes at 1 April 2013 and estimated for future arisings [1]

Waste Type	Volume (m^3)	Lower volume (m^3)	Upper volume (m^3)
HLW [2]	1,080	970 [3]	1,200 [3]
ILW	286,000	222,000	428,000
LLW	1,370,000	899,000	2,380,000
VLLW	2,840,000	1,020,000	4,110,000

(1) The 2013 Inventory includes numeric lower and upper volume uncertainty factors for waste streams covering about 99% of total waste volume.

(2) Volumes are those reported by the waste producers. For HLW conditioned volume is reported. Volumes of ILW, LLW and VLLW are for untreated or partly treated waste, apart from conditioned waste streams (i.e. those with a /C in the identifier) where the conditioned volume is reported. The convention for reporting waste volumes and an explanation of the terms used are given in the reporting output on *'Scope and Conventions*.

(3) Uncertainties associated with HLW are those for waste oxide from reprocessing spent fuel. They exclude uncertainties associated with contaminated plant and waste from POCO.

The 2013 Inventory includes current best estimates of HVVLLW from facilities decommissioning and site clean-up. However because of the uncertainties described above, some waste producers have chosen to report potentially contaminated ground in the reporting output on radioactive materials until there is more certainty on the waste volumes that might arise.

As decommissioning projects progress through initial scoping studies, detailed planning and then implementation, and as ground contamination surveys are extended and refined, volume estimates can be determined with increasing certainty.

The Inventory reports waste volumes once they have been packaged for long-term management. As packaging schemes are under development for many wastes, particularly decommissioning wastes, there is greater uncertainty in the resulting volumes than there is in waste volumes at the point of generation.

10 REFERENCES

1 Nuclear Decommissioning Authority. *The Magnox Operating Programme (MOP 9).* 2012.

2 *The 2010 United Kingdom Radioactive Waste Inventory – Main Report.* DECC/NDA, NDA Report NDA/ST/STY(11)0004. February 2011.

3 Nuclear Decommissioning Authority. *UK Strategy for the Management of Solid Low Level Radioactive Waste from the Nuclear Industry.* August 2010.

ANNEX 1 WASTE VOLUMES FROM ALL SOURCES

This annex presents waste volumes and package numbers from all sources, for HLW, ILW LLW and VLLW, and in total. It also provides this information separately for England, Scotland and Wales.

Information is given in a number of tables, listed below.

Content	Table[1-3]
All wastes	A1.1, A1.2
Wastes from sites in England	A1.3, A1.4
Wastes from sites in Scotland	A1.5, A1.6
Wastes from sites in Wales	A1.7, A1.8

(1) Tables A1.1, A1.3, A1.5 and A1.7 give waste volumes at 1 April 2013 and estimated for future time periods.

(2) Tables A1.2, A1.4, A1.6 and A1.8 give the number of packages, packaged volumes and conditioned volume existing at 1 April 2013, and the number of packages, packaged volume and conditioned volume once all wastes at 1 April 2013 and future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the UK Inventory does not compile information on waste packaging for this disposal route.

(3) All wastes from decommissioned nuclear powered submarines, which are berthed at Devonport and Rosyth, are included in wastes from sites in England.

Table A1.1: All wastes
Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

	HLW (2)	ILW (3)	LLW	VLLW	Total
Total	**1,080**	**286,000**	**1,370,000**	**2,840,000**	**4,490,000**
At 1.4.2013	1,770	95,600	66,700	1,170	**165,000**
Future arisings	-695	190,000	1,300,000	2,840,000	**4,330,000**
Arisings 2013	-109	1,880	28,500	6,560	**36,800**
Arisings 2014	-97	1,770	31,300	6,960	**39,900**
Arisings 2015-2019	-543	10,600	129,000	18,700	**157,000**
Arisings 2020-2029	54.2	13,600	182,000	69,500	**265,000**
Arisings 2030-2039	0	14,700	62,500	146,000	**223,000**
Arisings 2040-2059	0	35,100	210,000	576,000	**821,000**
Arisings 2060-2099	0	82,000	428,000	1,050,000	**1,560,000**
Arisings post 2100	0	30,700	231,000	966,000	**1,230,000**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) Future arisings of HLW have negative volumes. This is because Sellafield has reported future arisings of HLW to show that the volume of accumulated waste (liquid plus vitrified product) will fall as liquid waste existing at 1.4.2013 and forecast in the future is conditioned to a vitrified product. Thus, the volume of 1,770m^3 at 1.4.2013 is expected to fall by 695m^3, to 1,080m^3, by 2027 when all liquid waste (plus IFP residues) is expected to be conditioned.

(3) ILW includes 8,090m^3 of waste that are expected to become LLW as a result of decontamination or decay storage. This comprises 1,340m^3 at 1.4.2013 and 6,750m^3 for future arisings.

Table A1.2: All wastes
Number of packages, packaged and conditioned volumes (m^3)

	HLW	ILW (2)	LLW	VLLW	Total
At 1.4.2013 (1)					
Number of packages	5,626	54,129	2,549	0	**62,304**
Packaged volume	1,100	37,400	49,900	0	**88,400**
Conditioned volume	844	30,000	44,200	0	**75,100**
When all wastes at 1.4.2013 and future arisings are packaged (3)					
Number of packages	7,200	216,000	57,300	0	**280,000**
Packaged volume	1,410	458,000	1,420,000	2,840,000	**4,720,000**
Conditioned volume	1,080	359,000	1,280,000	2,840,000	**4,480,000**

(1) Package numbers and volumes at 1.4.2013 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier) and wastes that have been packaged for later conditioning.

(2) ILW packages at 1.4.2013 include 1,788 1803-type drums at Trawsfynydd. These drums are expected to be overpacked in 4m boxes (6 drums per box). The conditioned volume of these wastes at 1.4.2013 is for the overpacked waste. The number of packages given for all wastes includes these 4m boxes and not the number of drums.

(3) All wastes at 1.4.2013 and future arisings includes 474 packages, 9,230m^3 packaged volume and 7,770m^3 conditioned volume of ILW that are expected to become LLW as a result of decontamination or decay storage.

Table A1.3: Wastes at sites in England
Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

	HLW (2)	ILW (3)	LLW	VLLW	Total
Total	**1,080**	**246,000**	**1,010,000**	**2,840,000**	**4,100,000**
At 1.4.2013	1,770	83,800	48,000	1,150	**135,000**
Future arisings	-695	162,000	966,000	2,840,000	**3,960,000**
Arisings 2013	-109	1,640	19,800	6,540	**27,900**
Arisings 2014	-97	1,640	22,400	6,960	**30,900**
Arisings 2015-2019	-543	8,490	84,900	18,400	**111,000**
Arisings 2020-2029	54.2	12,800	126,000	69,000	**208,000**
Arisings 2030-2039	0	14,600	59,700	146,000	**220,000**
Arisings 2040-2059	0	35,000	208,000	576,000	**819,000**
Arisings 2060-2099	0	66,500	272,000	1,050,000	**1,390,000**
Arisings post 2100	0	21,500	173,000	966,000	**1,160,000**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) Future arisings of HLW have negative volumes. This is because Sellafield has reported future arisings of HLW to show that the volume of accumulated waste (liquid plus vitrified product) will fall as liquid waste existing at 1.4.2013 and forecast in the future is conditioned to a vitrified product. Thus, the volume of 1,770m^3 at 1.4.2013 is expected to fall by 695m^3, to 1,080m^3, by 2027 when all liquid waste (plus IFP residues) is expected to be conditioned.

(3) ILW includes 7,200m^3 of waste that are expected to become LLW as a result of decontamination or decay storage. This comprises 751m^3 at 1.4.2013 and 6,440m^3 for future arisings.

Table A1.4: Wastes at sites in England
Number of packages, packaged and conditioned volumes (m^3)

	HLW	ILW	LLW	VLLW	Total
At 1.4.2013 (1)					
Number of packages	5,626	47,624	1,904	0	**55,154**
Packaged volume	1,100	28,500	37,400	0	**66,900**
Conditioned volume	844	24,200	34,200	0	**59,200**
When all wastes at 1.4.2013 and future arisings are packaged (2)					
Number of packages	7,200	197,000	38,300	0	**243,000**
Packaged volume	1,410	394,000	1,020,000	2,840,000	**4,250,000**
Conditioned volume	1,080	309,000	919,000	2,840,000	**4,070,000**

(1) Package numbers and volumes at 1.4.2013 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier) and wastes that have been packaged for later conditioning.

(2) All wastes at 1.4.2013 and future arisings includes 403 packages, 7,840m^3 packaged volume and 6,660m^3 conditioned volume of ILW that are expected to become LLW as a result of decontamination or decay storage.

Table A1.5: Wastes at sites in Scotland
Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

	ILW (2)	LLW	VLLW	Total
Total	**25,600**	**237,000**	**1,040**	**264,000**
At 1.4.2013	8,610	18,500	14	**27,100**
Future arisings	17,000	219,000	1,020	**237,000**
Arisings 2013	216	7,920	1.4	**8,140**
Arisings 2014	116	8,260	2.6	**8,380**
Arisings 2015-2019	2,060	42,400	350	**44,800**
Arisings 2020-2029	782	54,300	559	**55,600**
Arisings 2030-2039	38.7	2,770	0	**2,810**
Arisings 2040-2059	38.7	1,870	0	**1,900**
Arisings 2060-2099	8,280	82,600	110	**91,000**
Arisings post 2100	5,420	18,600	0	**24,000**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) ILW includes 684m^3 of waste that are expected to become LLW as a result of decontamination or decay storage. This comprises 383m^3 at 1.4.2013 and 301m^3 for future arisings.

Table A1.6: Wastes at sites in Scotland
Number of packages, packaged and conditioned volumes (m^3)

	ILW (2)	LLW	VLLW	Total
At 1.4.2013 (1)				
Number of packages	4,641	645	0	**5,286**
Packaged volume	2,650	12,600	0	**15,200**
Conditioned volume	2,320	10,100	0	**12,400**
When all wastes at 1.4.2013 and future arisings are packaged (2)				
Number of packages	16,900	12,300	0	**29,200**
Packaged volume	41,200	271,000	1,040	**314,000**
Conditioned volume	31,900	238,000	1,040	**271,000**

(1) Package numbers and volumes at 1.4.2013 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier) and wastes that have been packaged for later conditioning.

(2) All wastes at 1.4.2013 and future arisings includes 67 packages, 1,300m^3 packaged volume and 1,040m^3 conditioned volume of ILW that are expected to become LLW as a result of decontamination or decay storage.

Table A1.7: Wastes at sites in Wales
Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

	ILW (2)	LLW	VLLW	Total
Total	**14,200**	**117,000**	**39.8**	**131,000**
At 1.4.2013	3,090	285	0.8	**3,380**
Future arisings	11,100	117,000	39	**128,000**
Arisings 2013	20.1	745	16.5	**782**
Arisings 2014	16.4	622	2.3	**640**
Arisings 2015-2019	34.6	1,260	10.5	**1,300**
Arisings 2020-2029	13.8	1,410	9.7	**1,430**
Arisings 2030-2039	0	40.3	0	**40.3**
Arisings 2040-2059	0	80.6	0	**80.6**
Arisings 2060-2099	7,200	73,200	0	**80,400**
Arisings post 2100	3,830	39,600	0	**43,400**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) ILW includes 210m^3 of waste that are expected to become LLW as a result of decontamination or decay storage. This comprises 207m^3 at 1.4.2013 and 3m^3 for future arisings.

Table A1.8: Wastes at sites in Wales
Number of packages, packaged and conditioned volumes (m^3)

	ILW (2)	LLW	VLLW	Total
At 1.4.2013 (1)				
Number of packages	1,864	0	0	**1,864**
Packaged volume	6,240	0	0	**6,240**
Conditioned volume	3,470	0	0	**3,470**
When all wastes at 1.4.2013 and future arisings are packaged (3)				
Number of packages	1,450	6,640	0	**8,090**
Packaged volume	22,300	133,000	39.8	**156,000**
Conditioned volume	18,200	126,000	39.8	**144,000**

(1) Package numbers and volumes at 1.4.2013 are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier) and wastes that have been packaged for later conditioning.

(2) ILW packages at 1.4.2013 include 1,788 1803-type drums at Trawsfynydd. These drums are expected to be overpacked in 4m boxes (6 drums per box). The number of packages given for all wastes includes these 4m boxes and not the number of drums.

(3) All wastes at 1.4.2013 and future arisings includes 5 packages, 91m^3 packaged volume and 73m^3 conditioned volume of ILW that are expected to become LLW as a result of decontamination or decay storage.

ANNEX 2 WASTE VOLUMES FROM EACH BUSINESS ACTIVITY

This annex provides a breakdown of waste volumes and package numbers for HLW, ILW, LLW and VLLW, and in total, in terms of the following business activities:

- **Fuel fabrication and uranium enrichment**, which includes activities carried out at Springfields and Capenhurst;
- **Nuclear power reactors**, which includes all Magnox, AGR and PWR nuclear power station sites;
- **Spent fuel reprocessing**, which includes all activities at Sellafield[9];
- **Nuclear energy R & D**, which includes activities at Dounreay[10], Harwell[11], Windscale[12], Winfrith, Culham and Berkeley Centre[13];
- **Defence**, which includes activities at sites throughout the UK supporting Ministry of Defence activities;
- **Medical and industrial**, which includes the activities of GE Healthcare Ltd at Amersham and Cardiff, the LLWR and minor waste producers.

Information is given in a number of tables, listed below.

Business activity	Table(1-3)
All activities (all wastes)	A2.1
All activities (wastes at 1.4.2013) All activities (all wastes)	A2.2 A2.3

(1) Table A2.1 gives waste volumes at 1 April 2013 and a consolidated estimate for future arisings.

(2) Table A2.2 gives the number of packages, packaged volume and conditioned volume existing at 1 April 2013.

(3) Table A2.3 gives the number of packages, packaged volume and conditioned volume once all wastes at 1 April 2013 and for future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the UK Inventory does not compile information on waste packaging for this disposal route.

[9] Includes wastes from Sellafield associated with fuel reprocessing, defence activities, R & D work and MOX fuel fabrication. It does not include wastes from the historically separate licensed sites of Windscale and Calder Hall.

[10] At Dounreay fast reactor and materials testing reactor spent fuel reprocessing was carried out in the past. These activities were on a much smaller scale than those at Sellafield.

[11] Excludes waste from the activities of GE Healthcare Ltd.

[12] Windscale is now part of the Sellafield site.

[13] Berkeley Centre is now part of the Berkeley site.

Table A2.1: Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

Business activity			HLW	ILW	LLW	VLLW	Total
Fuel fabrication & uranium enrichment		**Total**	**0**	**2.5**	**242,000**	**0**	**242,000**
		1.4.2013	0	0.66	1,150	0	**1,160**
		Future arisings	0	1.8	241,000	0	**241,000**
Nuclear power reactors		**Total**	**0**	**54,200**	**453,000**	**2,750**	**510,000**
	Magnox	1.4.2013	0	10,900	1,760	1,130	**13,800**
		Future arisings	0	43,200	452,000	1,630	**496,000**
		Total	**0**	**24,200**	**111,000**	**0**	**135,000**
	AGR	1.4.2013	0	3,230	618	0	**3,850**
		Future arisings	0	20,900	110,000	0	**131,000**
		Total	**0**	**4,370**	**18,500**	**0**	**22,900**
	PWR	1.4.2013	0	93.2	168	0	**261**
		Future arisings	0	4,280	18,300	0	**22,600**
Spent fuel reprocessing		**Total**	**1,080**	**173,000**	**249,000**	**2,820,000**	**3,240,000**
		1.4.2013	1,770	69,000	3,260	0	**74,000**
		Future arisings	-695 (2)	104,000	245,000	2,820,000	**3,170,000**
Nuclear energy R & D		**Total**	**0**	**14,800**	**157,000**	**6,720**	**179,000**
		1.4.2013	0	7,660	20,300	1	**28,000**
		Future arisings	0	7,100	137,000	6,720	**151,000**
Defence		**Total**	**0**	**9,440**	**27,400**	**8,530**	**45,400**
		1.4.2013	0	4,090	2,780	27	**6,890**
		Future arisings	0	5,360	24,600	8,500	**38,500**
Medical & Industrial		**Total**	**0**	**946**	**48,700**	**0**	**49,700**
		1.4.2013	0	380	33,500	0	**33,900**
		Future arisings	0	566	15,200	0	**15,800**
Total		**Total**	**1,080**	**286,000**	**1,370,000**	**2,840,000**	**4,490,000**
		1.4.2013	**1,770**	**95,600**	**66,700**	**1,170**	**165,000**
		Future arisings	**-695 (2)**	**190,000**	**1,300,000**	**2,840,000**	**4,330,000**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) Future arisings of HLW have negative volumes. This is because Sellafield has reported future arisings of HLW to show that the volume of accumulated waste (liquid plus vitrified product) will fall as liquid waste existing at 1.4.2013 and forecast in the future is conditioned to a vitrified product. Thus, the volume of 1,770m^3 at 1.4.2013 is expected to fall by 695m^3, to 1,080m^3, by 2027 when all liquid waste (plus IFP residues) is expected to be conditioned.

Table A2.2: Wastes at 1 April 2013
Number of packages, packaged volume and conditioned volume [1]

Business activity		At 1.4.2013	HLW	ILW	LLW	VLLW	Total
Fuel fabrication & uranium enrichment		Number of packages	0	0	0	0	**0**
		Packaged volume (m^3)	0	0	0	0	**0**
		Conditioned volume (m^3)	0	0	0	0	**0**
Nuclear power reactors	**Magnox**	Number of packages	0	1,865 [2]	0	0	**1,865**
		Packaged volume (m^3)	0	6,280	15.6	0	**6,290**
		Conditioned volume (m^3)	0	3,500	12.5	0	**3,510**
	AGR	Number of packages	0	0	0	0	**0**
		Packaged volume (m^3)	0	0	0	0	**0**
		Conditioned volume (m^3)	0	0	0	0	**0**
	PWR	Number of packages	0	0	0	0	**0**
		Packaged volume (m^3)	0	0	0	0	**0**
		Conditioned volume (m^3)	0	0	0	0	**0**
Spent fuel reprocessing		Number of packages	5,626	47,458	0	0	**53,084**
		Packaged volume (m^3)	1,100	27,100	0	0	**28,200**
		Conditioned volume (m^3)	844	23,500	0	0	**24,300**
Nuclear energy R & D		Number of packages	0	4,806	648	0	**5,454**
		Packaged volume (m^3)	0	4,000	14,200	0	**18,200**
		Conditioned volume (m^3)	0	2,990	11,400	0	**14,400**
Defence		Number of packages	0	0	0	0	**0**
		Packaged volume (m^3)	0	0	29.7	0	**29.7**
		Conditioned volume (m^3)	0	0	23.8	0	**23.8**
Medical & Industrial		Number of packages	0	0	1,901	0	**1,901**
		Packaged volume (m^3)	0	0	35,600	0	**35,600**
		Conditioned volume (m^3)	0	0	32,800	0	**32,800**
Total		**Number of packages**	**5,626**	**54,129**	**2,549**	**0**	**62,304**
		Packaged volume (m^3)	**1,100**	**37,400**	**49,900**	**0**	**88,400**
		Conditioned volume (m^3)	**844**	**30,000**	**44,200**	**0**	**75,100**

(1) Package numbers and volumes are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier) and wastes that have been packaged for later conditioning.

(2) ILW packages from Magnox nuclear power reactors include 1,788 1803-type drums. These drums are expected to be overpacked in 4m boxes (6 drums per box).

Table A2.3: All wastes when packaged
Number of packages, packaged volume and conditioned volume

Business activity		When all wastes at 1.4.2013 and future arisings are packaged	HLW	ILW	LLW	VLLW	Total
Fuel fabrication & uranium enrichment		Number of packages	0	5.3	694	0	**700**
		Packaged volume (m^3)	0	3.0	241,000	0	**241,000**
		Conditioned volume (m^3)	0	2.5	238,000	0	**238,000**
Nuclear power reactors	**Magnox**	Number of packages	0	10,100	27,500	0	**37,600**
		Packaged volume (m^3)	0	80,700	551,000	2,750	**635,000**
		Conditioned volume (m^3)	0	68,100	507,000	2,750	**577,000**
	AGR	Number of packages	0	3,210	3,560	0	**6,770**
		Packaged volume (m^3)	0	41,100	70,800	0	**112,000**
		Conditioned volume (m^3)	0	29,600	62,300	0	**92,000**
	PWR	Number of packages	0	1,730	699	0	**2,430**
		Packaged volume (m^3)	0	5,710	13,600	0	**19,400**
		Conditioned volume (m^3)	0	3,840	10,900	0	**14,800**
Spent fuel reprocessing		Number of packages	7,200	171,000	10,500	0	**189,000**
		Packaged volume (m^3)	1,410	281,000	205,000	2,820,000	**3,310,000**
		Conditioned volume (m^3)	1,080	221,000	168,000	2,820,000	**3,210,000**
Nuclear energy R & D		Number of packages	0	19,400	8,930	0	**28,300**
		Packaged volume (m^3)	0	35,700	218,000	6,720	**260,000**
		Conditioned volume (m^3)	0	24,400	183,000	6,720	**214,000**
Defence		Number of packages	0	8,730	301	0	**9,030**
		Packaged volume (m^3)	0	6,570	15,500	8,530	**30,600**
		Conditioned volume (m^3)	0	5,550	14,300	8,530	**28,400**
Medical & Industrial		Number of packages	0	866	2,810	0	**3,670**
		Packaged volume (m^3)	0	543	53,000	0	**53,500**
		Conditioned volume (m^3)	0	456	46,600	0	**47,000**
Total		**Number of packages**	**7,200**	**216,000**	**57,300**	**0**	280,000
		Packaged volume (m^3)	**1,410**	**458,000**	**1,420,000**	**2,840,000**	4,720,000
		Conditioned volume (m^3)	**1,080**	**359,000**	**1,280,000**	**2,840,000**	4,480,000

ANNEX 3 WASTE VOLUMES FROM EACH SITE

This annex provides a breakdown of waste volumes and package numbers for HLW, ILW and LLW for each site and by site ownership. The site owners are:

- **Nuclear Decommissioning Authority (NDA)**[14]**;**
- **EDF Energy;**
- **Ministry of Defence** (includes contractor owned and contractor operated sites)**;**
- **United Kingdom Atomic Energy Authority**
- **GE Healthcare Ltd;**
- **Urenco;**
- **Minor producers.**

Information is given in a number of tables, listed below.

Site Owner	Table(1-4)
All site owners (all wastes)	A3.1
All site owners (wastes at 1.4.2013) All site owners (all wastes)	A3.2 A3.3
By site (wastes at 1 April 2013 and all wastes)	A3.4

(1) Table A3.1 gives waste volume at 1 April 2013 and a consolidated estimate for future arisings.

(2) Table A3.2 gives the number of packages, packaged volume and conditioned volume existing at 1 April 2013.

(3) Table A3.3 gives the number of packages, packaged volume and conditioned volume once all wastes at 1 April 2013 and for future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the UK Inventory does not compile information on waste packaging for this disposal route.

(4) Table A3.4 gives waste volume at 1 April 2013, and gives the number of packages, packaged volume and conditioned volume once all wastes at 1 April 2013 and for future arisings have been packaged. LLW package numbers exclude those streams suitable for landfill disposal, as the UK Inventory does not compile information on waste packaging for this disposal route.

[14] Includes the Harwell site, which is owned by UKAEA Ltd and leased to the NDA.

Table A3.1: Volume at 1 April 2013 and estimated for future arisings (m^3) (1)

Site owner		HLW	ILW	LLW	VLLW	Total
NDA	**Total**	**1,080**	**247,000**	**1,180,000**	**2,830,000**	**4,260,000**
	1.4.2013	1,770	87,700	61,200	1,140	**152,000**
	Future arisings	-695 (2)	159,000	1,120,000	2,830,000	**4,100,000**
Ministry of Defence	**Total**	**0**	**9,440**	**27,400**	**8,530**	**45,400**
	1.4.2013	0	4,090	2,780	27	**6,890**
	Future arisings	0	5,360	24,600	8,500	**38,500**
EDF Energy	**Total**	**0**	**28,500**	**129,000**	**0**	**158,000**
	1.4.2013	0	3,320	785	0	**4,110**
	Future arisings	0	25,200	128,000	0	**153,000**
United Kingdom Atomic Energy Authority	**Total**	**0**	**246**	**6,000**	**61**	**6,310**
	1.4.2013	0	61.5	220	1.0	**283**
	Future arisings	0	184	5,780	60	**6,020**
GE Healthcare	**Total**	**0**	**414**	**4,170**	**0**	**4,580**
	1.4.2013	0	344	88.4	0	**433**
	Future arisings	0	70.	4,080	0	**4,150**
Urenco	**Total**	**0**	**2.5**	**14,400**	**0**	**14,400**
	1.4.2013	0	0.7	1,020	0	**1,020**
	Future arisings	0	1.8	13,400	0	**13,400**
Minor producers	**Total**	**0**	**6.6**	**9,490**	**0**	**9,500**
	1.4.2013	0	2.1	648	0	**650**
	Future arisings	0	4.5	8,840	0	**8,850**
Total	**Total**	**1,080**	**286,000**	**1,370,000**	**2,840,000**	**4,490,000**
	1.4.2013	**1,770**	**95,600**	**66,700**	**1,170**	**165,000**
	Future arisings	**-695 (2)**	**190,000**	**1,300,000**	**2,840,000**	**4,330,000**

(1) Volumes are those reported by the waste producers. They are for untreated or partly treated wastes, apart from wastes that are conditioned (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) Future arisings of HLW have negative volumes. This is because Sellafield has reported future arisings of HLW to show that the volume of accumulated waste (liquid plus vitrified product) will fall as liquid waste existing at 1.4.2013 and forecast in the future is conditioned to a vitrified product. Thus, the volume of 1,770m^3 at 1.4.2013 is expected to fall by 695m^3, to 1,080m^3, by 2027 when all liquid waste (plus IFP residues) is expected to be conditioned.

Table A3.2: Wastes at 1 April 2013
Number of packages, packaged volume and conditioned volume [1]

Site owner	At 1.4.2013	HLW	ILW	LLW	VLLW	Total
NDA	Number of packages	5,626	54,129 [2]	2,549	0	**62,304**
	Packaged volume (m^3)	1,100	37,400	49,900	0	**88,400**
	Conditioned volume (m^3)	844	30,000	44,200	0	**75,000**
Ministry of Defence	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	29.7	0	**29.7**
	Conditioned volume (m^3)	0	0	23.8	0	**23.8**
EDF Energy	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	0	0	**0**
	Conditioned volume (m^3)	0	0	0	0	**0**
United Kingdom Atomic Energy Authority	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	0	0	**0**
	Conditioned volume (m^3)	0	0	0	0	**0**
GE Healthcare	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	0	0	**0**
	Conditioned volume (m^3)	0	0	0	0	**0**
Urenco	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	0	0	**0**
	Conditioned volume (m^3)	0	0	0	0	**0**
Minor producers	Number of packages	0	0	0	0	**0**
	Packaged volume (m^3)	0	0	0	0	**0**
	Conditioned volume (m^3)	0	0	0	0	**0**
Total	**Number of packages**	**5,626**	**54,129**	**2,549**	**0**	**62,304**
	Packaged volume (m^3)	**1,100**	**37,400**	**49,900**	**0**	**88,400**
	Conditioned volume (m^3)	**844**	**30,000**	**44,200**	**0**	**75,100**

(1) Package numbers and volumes are for those wastes that had been conditioned (i.e. waste streams with a /C in the identifier).

(2) ILW packages from NDA include 1,788 type 1803 drums. These drums are expected to be overpacked in 4m boxes (6 drums per box).

Table A3.3: All wastes when packaged
Number of packages, packaged volume and conditioned volume

Site owner	When all wastes at 1.4.2013 and future arisings are packaged	HLW	ILW	LLW	VLLW	Total
NDA	Number of packages	7,200	202,000	50,900	0	**260,000**
	Packaged volume (m^3)	1,410	403,000	1,290,000	2,830,000	**4,520,000**
	Conditioned volume (m^3)	1,080	319,000	1,170,000	2,830,000	**4,320,000**
Ministry of Defence	Number of packages	0	8,730	301	0	**9,030**
	Packaged volume (m^3)	0	6,570	15,500	8,530	**30,600**
	Conditioned volume (m^3)	0	5,550	14,300	8,530	**28,400**
EDF Energy	Number of packages	0	4,940	4,260	0	**9,200**
	Packaged volume (m^3)	0	46,900	84,400	0	**131,000**
	Conditioned volume (m^3)	0	33,500	73,200	0	**107,000**
United Kingdom Atomic Energy Authority	Number of packages	0	193	389	0	**581**
	Packaged volume (m^3)	0	825	7,160	61	**8,040**
	Conditioned volume (m^3)	0	389	5,660	61	**6,100**
GE Healthcare	Number of packages	0	379	123	0	**502**
	Packaged volume (m^3)	0	249	2,400	0	**2,650**
	Conditioned volume (m^3)	0	202	1,920	0	**2,120**
Urenco	Number of packages	0	5.3	633	0	**638**
	Packaged volume (m^3)	0	3.0	12,700	0	**12,700**
	Conditioned volume (m^3)	0	2.5	10,200	0	**10,200**
Minor Producers	Number of packages	0	5.2	674	0	**679**
	Packaged volume (m^3)	0	19.1	12,800	0	**12,900**
	Conditioned volume (m^3)	0	13.3	10,200	0	**10,200**
Total	**Number of packages**	**7,200**	**216,000**	**57,300**	**0**	280,000
	Packaged volume (m^3)	**1,410**	**458,000**	**1,420,000**	**2,840,000**	4,720,000
	Conditioned volume (m^3)	**1,080**	**359,000**	**1,280,000**	**2,840,000**	4,480,000

Table A3.4 Location of wastes
Volume at 1 April 2013 and quantities of all wastes when packaged [1]

Location	Site owner	Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
				Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
Amersham	GE	ILW	102	261	181	147
		LLW	88.4	124	2,400	1,920
AWE Aldermaston & Burghfield	MoD	ILW	4,030	8,320	4,750	4,130
		LLW	2,330	56	11,400	11,200
BAESM Barrow-in-Furness	MoD	LLW	0	1	7.5	6
Berkeley [2]	NDA	ILW	1,620	1,030	8,440	6,130
		LLW	122	1,870	37,500	35,300
Bradwell	NDA	ILW	779	477	5,620	4,770
		LLW	156	2,400	48,300	45,400
		VLLW	0	0	640	640
Capenhurst	Urenco	ILW	0.7	6	3	2.5
		LLW	1,020	634	12,700	10,200
Cardiff	GE	ILW	243	119	67.4	55
Chapelcross	NDA	ILW	213	518	6,260	5,580
		LLW	3,150	2,230	55,000	52,300
		VLLW	14	0	1,040	1,040
HMNB Clyde	MoD	LLW	3.2	24	458	366
Culham	UK Atomic Energy Authority	ILW	61.5	193	825	389
		LLW	220	389	7,160	5,660
		VLLW	1	0	61	61
Defence Infrastructure Organisation	MoD	LLW	338	25	486	389
RRMPOL Derby	MoD	LLW	40	115	1,660	1,240
HMNB Devonport	MoD	ILW	25.6	9	163	130
		LLW	53.2	53	1,020	817
		VLLW	27	0	8,530	8,530
Dounreay	NDA	ILW	4,600	13,400	12,900	8,850
		LLW	14,400	6,630	148,000	122,000
Dungeness (A & B)	NDA (A)	ILW	338	480	5,930	5,360
		LLW	129	1,930	39,500	37,100
	EDF (B)	ILW	479	579	6,090	4,390
		LLW	97.5	472	9,350	8,310
Eskmeals	MoD	LLW	0	0	0	0
Hartlepool	EDF	ILW	369	351	5,610	4,040
		LLW	116	515	10,200	8,740

Location	Site owner	Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
				Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
Harwell	NDA	ILW	2,300	1,520	6,600	3,580
		LLW	1,240	776	39,800	36,800
Heysham (1 & 2)	EDF (1)	ILW	292	395	5,540	3,980
		LLW	91.3	487	9,600	8,290
	EDF (2)	ILW	170	344	5,390	3,870
		LLW	72.7	585	11,600	10,300
Hinkley Point (A & B)	NDA (A)	ILW	1,250	827	6,360	5,350
		LLW	34.2	2,300	46,100	43,200
		VLLW	45	0	45	45
	EDF (B)	ILW	806	453	6,350	4,580
		LLW	68	442	8,740	7,720
Hunterston (A & B)	NDA (A)	ILW	2,660	1,820	9,640	8,510
		LLW	754	2,330	47,100	44,400
	EDF (B)	ILW	897	662	6,790	4,940
		LLW	122	440	8,710	7,690
LLWR	NDA	ILW	33.9	483	275	240
		LLW	32,800	2,010	37,700	34,400
Logistic Services Donnington	MoD	LLW	0	5	87.5	70
NRTE Vulcan	MoD	ILW	8.5	8	156	125
		LLW	0	2	35.7	28.5
Oldbury	NDA	ILW	594	554	5,970	5,290
		LLW	30.2	4,040	80,800	75,600
HMNB Portsmouth	MoD	ILW	0.1	1	0.2	0.2
		LLW	3.2	1	6.7	5.4
Rosyth & Devonport (Submarines)	MoD	ILW	0	385	1,390	1,080
		LLW	0	16	197	141
Rosyth Royal Dockyard	MoD	ILW	16.8	6	116	92.8
		LLW	10.4	9	149	116
Sellafield (Sellafield Ltd)	NDA	HLW	1,770	7,200	1,410	1,080
		ILW	69,600	179,000	306,000	241,000
		LLW	3,450	14,800	289,000	236,000
		VLLW	1,080	0	2,830,000	2,830,000
Sellafield (NNL)	NDA	LLW	0	88	1,710	1,370
Sizewell (A & B)	NDA (A)	ILW	863	305	5,700	5,340
		LLW	137	2,000	39,900	37,100
		VLLW	0	0	950	950
	EDF (B)	ILW	93.2	1,730	5,710	3,840
		LLW	168	700	13,600	10,900
Springfields	NDA	LLW	133	62	228,000	228,000
Torness	EDF	ILW	216	433	5,360	3,850
		LLW	49.8	615	12,200	10,800
Trawsfynydd	NDA	ILW	2,010	862	13,100	9,630
		LLW	87.8	2,800	56,500	53,100
		VLLW	0	0	13	13
Winfrith	NDA	ILW	5.5	122	1,440	697

Location	Site owner	Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
				Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
		LLW	4,400	748	15,600	12,700
Wylfa	NDA	ILW	842	473	9,150	8,540
		LLW	197	3,840	77,000	72,500
		VLLW	0.8	0	26.8	26.8
MWP (Various Sites)	MWP	ILW	2.1	6	19.1	13.3
		LLW	648	674	12,800	10,200
Flasks & Flatrols (Magnox)	NDA	LLW	0	5	80.7	64.6
Flasks & Flatrols (AGR)	EDF	LLW	0	3	485	474

(1) Waste volumes at 1.4.2013 are for untreated or partly treated waste, apart from conditioned wastes (i.e. waste streams with a /C in the identifier) where the conditioned volume is reported.

(2) Berkeley Power Station and that part of Berkeley Centre originally containing the R&D active handling facilities are now combined as a single site known as Berkeley.

ANNEX 4 LIST OF WASTE STREAMS IN THE INVENTORY AND THEIR VOLUMES

The table below shows the number of waste streams in the 2013 Inventory for each waste type from each waste producer.

Table A4.1 Number of waste streams in the 2013 Inventory

Site owner	HLW	ILW	LLW	VLLW	Total
GE Healthcare	-	9	5	-	14
NDA	5	529	433	15	982
EDF Energy	-	93	132	-	225
United Kingdom Atomic Energy Authority	-	4	6	1	11
Minor Producers	-	9	4	-	13
MoD	-	21	52	1	74
Urenco	-	1	6	-	7
	5	**666**	**638**	**17**	**1,326**

All 1,326 waste streams in the 2013 Inventory are listed on the following pages in order of waste stream identifier. Each site is identified, together with the site owner and waste custodian. For sites with operational and decommissioning wastes, the operational waste streams are listed first.

The following information is given for each waste stream: stream identifier; stream title; waste type; the volume of waste at 1 April 2013; the forecast total number of waste packages, the forecast total packaged volume and the forecast total conditioned volume when all wastes at 1 April 2013 and projected future arisings have been packaged. (Further information on waste stream identifiers and on the reporting of waste volumes can be found in the reporting output on *'Scope and Conventions'*).

The forecast number of waste packages, the packaged volume and the conditioned volume are determined from reported packaging plans. For waste streams where waste packaging plans are not yet fully defined, assumptions have been made so that package numbers, and packaged and conditioned volumes, can be estimated (see *'Scope and Conventions'* reporting output).

The volume of waste at 1 April 2013 is the reported value in cubic metres (m^3) to 1 decimal place. Volumes of less than 0.05m^3 are displayed as "<0.1". The number of waste packages and the packaged and conditioned volumes for all wastes at 1 April 2013 and future arisings are calculated values given to 3 significant figures, or, for values below 10, to the nearest 0.1. Calculated fractional package numbers for waste streams are not rounded up to the nearest whole number. This would overestimate the number of packages, particularly as small volume waste streams of the same type and the same or similar composition at a site will be packaged together.

Total volumes and package numbers are zero for waste streams that are to be incinerated or recycled, or where arisings are not estimated.

VLLW may be disposed to landfill. Package numbers for these wastes are reported as zero (as the UK Inventory does not include packaging information for wastes sent to landfill).

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
GE Healthcare Limited – GE Healthcare Ltd - Amersham						
1A01	LLW Compactable Drummable	LLW	10.0	12.0	234	187
1A02	LLW Non-Compactable Drummable	LLW	8.4	50.3	980	784
1A03	LLW Non-Compactable Non-Drummable	LLW	70.0	41.7	813	650
1A04	LLW Non-Compactable Drummable (Spoil)	LLW	0	19.2	375	300
1A07	ILW	ILW	82.5	232	132	108
1A08	Decay Stored Waste	ILW	16.0	1.7	33.2	26.5
1A09	Incinerated Waste	LLW	0	0	0	0
1A10	ILW Containing Radium	ILW	2.0	23.6	13.5	11.0
1A11	Sealed Sources	ILW	1.3	3.9	2.2	1.8
GE Healthcare Limited – GE Healthcare Ltd – Cardiff						
1B04	ILW Containing Tritium Excluding Free Liquid	ILW	170.5	0	0	0
1B05	ILW Containing Carbon-14 Excluding Free Liquid	ILW	40.0	85.8	49.0	40.0
1B07	ILW Containing Tritium and Carbon-14	ILW	1.5	3.2	1.8	1.5
1B10	ILW Containing Carbon-14 Free Liquid	ILW	13.5	29.0	16.5	13.5
1B11	ILW Containing Tritium Free Liquid	ILW	17.0	0	0	0
Nuclear Decommissioning Authority - Sellafield Ltd - Calder Hall						
2A01	Redundant Activated Control Rods ILW	ILW	2.9	1.5	6.9	5.1
2A04	Calder Hall LLW Lagging	LLW	124.0	12.4	242	193
2A06	Redundant Activated Control Rods LLW	LLW	7.6	0.8	14.8	11.8
2A07	Redundant Fuel Transport Flasks & Liners	LLW	27.2	0.4	8.4	6.7
2A30	Waste Oils	LLW	15.0	0	0	0
2A910	Care and Maintenance Preparation (Reactor LLW)	LLW	0	921	18,000	14,400
2A911	C&M Preparation; Control Rod Mechanism Workshop Dismantling LLW	LLW	0	13.3	259	207
2A914	C&M Preparations Calder Hall Lagging - HVVLLW	VLLW	1,080.0	0	1,080	1,080
2A100	Care & Maintenance : General Reactor LLW	LLW	0	3.0	58.4	53.7
2A303	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	0.6	12.3	9.8
2A304	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	814	15,900	12,700
2A305	Final Dismantling & Site Clearance : Stainless Steel (Reactor) LLW	LLW	0	0.6	11.7	9.4
2A306	Final Dismantling & Site Clearance : Mild Steel (Non-Reactor) LLW	LLW	0	424	8,260	6,610
2A307	Final Dismantling & Site Clearance Concrete (Reactor & Non-Reactor) LLW	LLW	0	1,660	32,400	25,900
2A308	Final Dismantling & Site Clearance: Misc Metals & Materials (Reactor and Non-Reactor) LLW	LLW	0	72.1	1,410	1,120
2A309	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	111	2,170	1,740
2A310	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	2,730	9,010	7,650
2A311	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	492	1,620	1,380
2A312	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	60.2	198	168
2A313	Final Dismantling & Site Clearance : Miscellaneous Metal (Reactor) ILW	ILW	0	15.9	52.6	44.6
Nuclear Decommissioning Authority - Magnox Ltd - Chapelcross						
2C01	Ion Exchange Resins AW500 (Zeolite)	ILW	39.4	109	143	43.9
2C02	Miscellaneous Activated Components, Activated Liners	ILW	<0.1	<0.1	<0.1	<0.1
2C03	Miscellaneous Reactor Components Stored dry	ILW	13.0	3.7	17.5	13.0
2C05	Sludge	ILW	15.0	34.0	44.9	16.7
2C06	Ceramic Pellets	ILW	12.0	4.8	26.1	13.6
2C07	Contaminated Plant Components (CXPP Cave Line)	ILW	5.0	2.0	10.9	5.7
2C08	Hydraulic Fluid	LLW	0.9	0	0.9	0.9
2C10	Chapelcross Process Plant Tritiated Waste	LLW	6.9	1.2	24.9	20.1
2C13	Large Items from Reactor Areas	LLW	1,756.0	0	0	0
2C14	Large Items from Ponds	LLW	0	39.2	1,940	1,790

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2C15	Rotary Pump Oil	ILW	0.3	1.9	2.4	0.9
2C16	UO3 Contaminated Low Level Waste	LLW	0	1.3	159	154
2C18	Miscellaneous Beta/Gamma Waste (CXPP Magnox/Aluminium)	ILW	0.2	1.3	1.7	0.6
2C20	Fuel Skips in Pond	ILW	82.4	5.3	103	82.4
2C22	Pond Skip Decontamination Sludge	ILW	0	9.1	12.0	4.4
2C23	Desiccant	ILW	15.0	2.5	48.8	39.0
2C27	Miscellaneous Activated Reactor Components - Magnox / Steel Chips	ILW	<0.1	<0.1	0.1	<0.1
2C28	Miscellaneous Reactor Components stored wet	ILW	7.0	30.2	39.8	7.4
2C29	Vacuum Furnaces	ILW	0.6	0.2	1.3	0.7
2C30	Uranium Furnaces	ILW	0.7	0.3	1.5	0.8
2C31	Cobalt Cartridges	ILW	0.1	12.0	15.8	2.1
2C32	CEGB Cartridges (Bradwell)	ILW	0.2	0.9	1.1	0.2
2C33	Activated Charcoal	LLW	0	0	0	0
2C34	Spark Arrestors	ILW	1.5	0.6	3.3	1.7
2C35	Tritiated Mercury	ILW	<0.1	0.2	0.3	<0.1
2C36	Chapelcross Process Plant Product Containers	ILW	1.7	2.0	10.9	5.7
2C37	CXPP Delay Tank Sludges	ILW	0.2	0.5	0.6	0.2
2C38	Miscellaneous Activated Reactor Components	ILW	18.6	1.1	23.0	21.7
2C40	Large Items from Cooling Ponds VLLW	VLLW	0	0	909	909
2C920	Care and Maintenance Preparation (Reactor LLW)	LLW	470.6	0	1,800	1,800
2C921	Care and Maintenance Preparation Ponds LLW	LLW	512.4	0	2,810	2,810
2C922	Care and Maintenance Preparation (Pipeline Concrete LLW)	LLW	0	0	1,880	1,880
2C923	Care and Maintenance Preparation (Pipeline Steel LLW)	LLW	0	0	0	0
2C924	Care and Maintenance Preparation (North Site LLW)	LLW	101.6	0	915	915
2C925	Care and Maintenance Preparation (Chapelcross Processing Plant Dismantling) LLW	LLW	300.8	0	1,620	1,620
2C926	Care and Maintenance Preparation (Chapelcross Processing Plant Dismantling ILW)	ILW	0	12.0	65.3	34.0
2C927	Contaminated Asbestos VLLW	VLLW	0	0	4.0	4.0
2C928	Tritium Contaminated Asbestos VLLW	VLLW	14.0	0	14.0	14.0
2C929	Pipeline Lime Scale	LLW	4.2	0	4.2	4.2
2C930	Reactor VLLW	VLLW	0	NE	NE	NE
2C100	Care & Maintenance : General Reactor LLW	LLW	0	3.1	59.5	47.6
2C303	Final Decommissioning Contaminated Soil	LLW	0	61.7	1,240	1,170
2C304	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	0.4	7.4	7.0
2C305	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	13.6	273	257
2C306	Final Dismantling & Site Clearance : Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
2C307	Final Dismantling & Site Clearance : Mild Steel (Non-Reactor) LLW	LLW	0	261	5,240	4,930
2C308	Final Dismantling & Site Clearance : Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,750	35,000	33,000
2C309	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	29.6	593	559
2C310	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	68.8	1,380	1,300
2C311	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	225	4,510	4,250
2C312	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	48.3	967	912
2C313	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	8.5	170	92.8
2C314	Final Dismantling & Site Clearance : Miscellaneous Metal (Reactor) ILW	ILW	0	2.2	44.7	24.4

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2C316	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) VLLW	VLLW	0	0	110	110
2C317	Final Dismantling & Site Clearance : Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Sellafield Ltd - Sellafield						
2D02	High Level Liquid Waste	HLW	931.0	0	0	0
2D02/C	Vitrified High Level Waste - Magnox	HLW	451.2	3,640	712	545
2D03	Plutonium Contaminated Materials; Drums	ILW	4,626.0	3,230	1,840	1,630
2D06	Plutonium Contaminated Materials; Crates and Filters	ILW	4,451.4	2,040	1,170	1,030
2D07	Pile Fuel Cladding and Miscellaneous Solid Waste	ILW	3,231.0	2,470	8,160	5,320
2D08	Magnox Cladding and Miscellaneous Solid Waste	ILW	3,450.0	3,850	12,700	8,270
2D09	Magnox Cladding and Miscellaneous Solid Waste	ILW	2,850.0	3,180	10,500	6,830
2D11	Pond Sludge	ILW	323.0	1,290	738	607
2D12	Miscellaneous Solid Waste in Pond and Bays	ILW	321.0	161	531	346
2D19	Aluminium-Ferric Floc from Effluent Treatment	ILW	4,248.0	0	0	0
2D21	Stored Miscellaneous Beta/Gamma Active Solid Waste	ILW	330.0	120	396	324
2D22	Magnox Cladding and Miscellaneous Solid Waste	ILW	1,040.0	1,160	3,830	2,490
2D23	Filters in Concrete Box	ILW	16.0	5.9	19.6	16.0
2D24	Magnox Cladding and Miscellaneous Solid Waste	ILW	1,370.0	1,530	5,040	3,280
2D25	Miscellaneous Solid Waste	ILW	395.0	440	1,450	947
2D26	Ion Exchange Material (Clinoptilolite) and Sand	ILW	1,097.5	2,690	8,870	7,260
2D27/C	Encapsulated Floc from Effluent Treatment	ILW	8,151.0	24,900	14,200	12,400
2D30	Waste Oils	LLW	107.4	0	0	0
2D31	Redundant Transport Flasks Magnox Fuel	LLW	110.8	0.4	6.9	5.5
2D33	Fuel Handling Plant Sludges	ILW	14.0	25.7	84.7	69.3
2D34	Sludge from Sand Filters and Transfers	ILW	891.0	1,360	4,480	3,670
2D35	Magnox Cladding and Miscellaneous Solid Waste	ILW	738.0	823	2,720	1,770
2D35/C	Encapsulated Retrieved Magnox Cladding	ILW	1,204.9	2,470	1,410	1,200
2D38/C	Encapsulated Magnox Cladding	ILW	8,482.9	20,500	11,700	10,000
2D39	Miscellaneous Beta/Gamma Waste Store	ILW	2,904.9	1,450	6,820	5,080
2D42	Magnox Pond Furniture	ILW	0	168	3,270	3,000
2D43	Pond Skips	LLW	991.0	0	0	0
2D45	Magnox Fuel End Crops	ILW	27.6	16.7	55.2	35.9
2D55	Stored Filters	ILW	14.0	5.2	17.1	14.0
2D56	Effluent Plants Maintenance Waste	ILW	0	1.5	7.1	5.3
2D57	Hydrocyclone Solids from Effluent Treatment	ILW	<0.1	6.0	3.4	3.0
2D73	Miscellaneous Beta/Gamma Waste in Voids	ILW	10.0	11.2	36.8	24.0
2D74	Pile Fuel Storage Pond Ion Exchange Material	ILW	1.8	2.9	9.5	6.2
2D76/C	Encapsulated Retrieved Pond Sludge	ILW	0.5	1.0	0.6	0.5
2D77/C	Encapsulated Retrieved Miscellaneous Beta/Gamma Waste	ILW	0.5	881	503	441
2D83/C	Encapsulated Plutonium Contaminated Materials	ILW	1,780.1	3,530	2,020	1,780
2D85.3/C	SPP1 Secondary Waste ILW	ILW	0	24.0	79.2	64.8
2D86.3/C	BEP Secondary Waste ILW	ILW	0	44.0	145	119
2D87.1.3/C	SDP Secondary Waste	ILW	0	2,570	8,480	5,530
2D87.2.3	SWR Secondary ILW	ILW	0	51.2	169	110
2D90	Plutonium Contaminated Materials; Drums	ILW	3,430.4	13,900	7,950	7,010
2D93	Acidic Sample Waste in Analytical Services	ILW	8.4	22.6	12.9	11.3
2D95.1	Magnox Fuel Storage Pond Sludge	ILW	1,497.0	1,510	4,990	4,080
2D95.2	Settling Pond Sludge	ILW	75.0	93.9	310	254
2D95.3	Sludge Settling Tank	ILW	26.5	33.2	110	89.6
2D95.4	Decanner Settling Tank Sludge	ILW	35.0	35.4	117	95.5
2D96.1	FGMSP Bay Solid Waste to BEP	ILW	854.2	482	1,590	1,300
2D96.2	FGMSP Pond Solid Waste to BEP	ILW	1,400.8	791	2,610	2,130
2D96.3	Magazines in Magnox Fuel Storage Pond	ILW	36.5	20.6	67.9	55.6

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2D96.4	Ion Exchange Material in Skips (AW500)	ILW	310.0	235	776	635
2D100	Pile Chimney Decommissioning Waste	ILW	39.4	14.6	48.2	39.4
2D108	Miscellaneous Plants Initial/Interim Decommissioning: Ponds	LLW	0	132	2,580	2,370
2D109	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos etc.	LLW	0	1,640	32,000	29,400
2D110	Miscellaneous Plants Initial/Interim Decommissioning: Product Stores	LLW	0	82.0	1,600	1,280
2D111	Plutonium Plants Initial/Interim Decommissioning: Processing Plants	LLW	0	72.5	1,410	1,300
2D112	Plutonium Plants Initial/Interim Decommissioning: Stores	LLW	0	8.8	171	137
2D113	Uranium Plants Initial/Interim Decommissioning: Processing Plants	LLW	0	32.9	642	590
2D114	Uranium Plants Initial/Interim Decommissioning: Stores	LLW	0	5.3	104	83.0
2D115	Miscellaneous Plants Initial/Interim Decommissioning: Ponds	ILW	0	569	1,880	1,540
2D116	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos etc.	ILW	0	27,000	89,100	72,900
2D117	Miscellaneous Plants Initial/Interim Decommissioning: Product Stores	ILW	0	152	501	410
2D118	Plutonium Plants Initial/Interim Decommissioning: Processing Plants	ILW	0	173	573	468
2D120	Uranium Plants Initial/Interim Decommissioning: Processing Plants	ILW	0	21.4	70.6	57.8
2D122	Miscellaneous Plants Final Decommissioning: Ponds	LLW	0	192	3,740	2,990
2D123	Miscellaneous Plants Final Decommissioning: Processing Plants, Tanks, Silos, etc.	LLW	0	3,480	67,800	54,300
2D124	Miscellaneous Plants Final Decommissioning: Product Stores	LLW	0	740	14,400	11,500
2D125	Plutonium Plants Final Decommissioning: Processing Plants	LLW	0	63.5	1,240	991
2D126	Plutonium Plants Final Decommissioning: Stores	LLW	0	122	2,370	1,900
2D127	Uranium Plants Final Decommissioning: Processing Plants	LLW	0	24.7	481	385
2D130	Miscellaneous Plants Initial/Interim Decommissioning: Processing Plants, Tanks, Silos, etc (PCM)	ILW	0	1,770	1,010	894
2D132	Plutonium Plants Initial/Interim Decommissioning: Processing Plants (PCM)	ILW	0	857	489	432
2D133	Plutonium Plants Initial/Interim Decommissioning: Stores (PCM)	ILW	0	188	107	94.6
2D136	Miscellaneous Plants Final Decommissioning: Ponds	ILW	0	218	720	589
2D137	Miscellaneous Plants Final Decommissioning: Processing Plants, Tanks, Silos, etc.	ILW	0	11,000	36,300	29,700
2D148	HVVLLW from Final Decommissioning	VLLW	0	0	2,760,000	2,760,000
Nuclear Decommissioning Authority - Springfields Fuels Ltd - Springfields						
2E15	Drummed Waste for Disposal at LLW Repository	LLW	0	NE	NE	NE
2E90	General Waste for Clifton Marsh Disposal	LLW	0	0	24,800	24,800
2E91	Process Wastes for Clifton Marsh	LLW	130.0	0	780	780
2E101	Decommissioning LLW	LLW	3.0	61.1	1,190	953
2E191	Decommissioning Wastes for Clifton Marsh Disposal	LLW	0	0	201,000	201,000
Nuclear Decommissioning Authority - Sellafield Ltd - Sellafield						
2F01/C	Vitrified High Level Waste	HLW	392.7	2,530	496	379
2F02	Plutonium Contaminated Materials; Drums	ILW	119.0	115	65.7	58.0
2F03/C	Encapsulated AGR Cladding	ILW	1,187.7	3,630	2,070	1,850
2F04/C	Encapsulated LWR Cladding	ILW	1,692.1	3,500	2,000	1,780
2F06/C	Encapsulated Barium Carbonate Slurry/MEB Crud	ILW	426.2	1,120	640	529
2F07	AGR Graphite Fuel Assembly Components	ILW	4,445.5	18,000	10,300	6,600
2F08	AGR Stainless Steel Fuel Assembly Components	ILW	586.8	2,190	1,250	802
2F10/C	Encapsulated Centrifuge Cake	ILW	475.3	1,300	740	612

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2F14	AGR Pond Furniture (Containers, Skips, Racks)	LLW	0	62.6	1,220	977
2F15	LWR Pond Furniture (MEBs)	ILW	0	120	2,330	1,870
2F17	Redundant Excellox Flasks	LLW	1,156.6	3.9	76.5	61.2
2F20	LWR Pond Furniture (Racks and Frames) from First Generation Oxide Storage Pond	LLW	0	310	6,050	4,840
2F21/C	Encapsulated Maintenance Scrap	ILW	95.5	246	140	123
2F22/C	High Level Contaminated Waste	HLW	0	45.0	8.8	6.8
2F26	LWR Pond Sludge	ILW	18.6	83.7	47.8	39.0
2F27	AGR Pond Sludge	ILW	5.5	18.7	10.7	8.7
2F31	Oxide Fuel Hulls from Early Reprocessing	ILW	74.4	83.0	274	178
2F34	Plutonium Contaminated Materials; Drums	ILW	146.8	68.8	39.3	34.7
2F35	Excellox-Type Transport Flasks and French-Design Dry Flasks	LLW	82.7	2.0	32.5	12.9
2F36	LWR Pond Furniture	LLW	0	70.8	1,380	1,110
2F37	Oxide Fuel Transport Flasks & Basket Transfer Containers	LLW	0	0.2	4.1	3.3
2F38/C	Vitrified High Level Waste from POCO	HLW	0	990	194	149
2F39	LWR Pond Furniture (Racks and Frames) from Thorp Receipt and Storage Pond	LLW	0	58.4	1,140	911
2F40	Fuel Support Frames	LLW	17.7	3.0	58.5	46.8
2F41	LWR Pond Furniture (MEBs) in Interim Storage	LLW	680.4	27.2	531	425
2F42/C	Encapsulated MEP, Thorp and WEP POCO	ILW	0	722	412	361
Nuclear Decommissioning Authority - LLW Repository Ltd - LLWR						
2N01	Plutonium Contaminated Material; Drummed (Legacy Drums)	ILW	33.9	72.7	41.5	33.9
2N03	Plutonium Contaminated Material; Drummed (Operational Mixed Waste)	ILW	0	409	234	206
2N04	LLW from PCM Operations	LLW	0	27.9	545	436
2N05/C	Vault Eight LLW	LLW	10,812.0	655	11,800	10,800
2N06	LLW from Site LLW Operations	LLW	0	79.4	1,550	1,240
2N07/C	Vault Nine LLW	LLW	21,945.6	1,250	23,900	21,900
Nuclear Decommissioning Authority – National Nuclear Laboratory Ltd – located on the Sellafield site						
2P02	BTC Rig Hall	LLW	0	12.6	245	196
2P03	BTC Level 3 Laboratories and Other General Active Areas	LLW	0	41.8	816	653
2P04	LLW	LLW	0	16.7	326	261
2P05	BTC HA Cells	LLW	0	16.7	326	261
Nuclear Decommissioning Authority – Sellafield Ltd - Windscale						
2S09	Waste from P.I.E. Operations	ILW	20.8	38.0	179	133
2S10/C	WAGR Stringer Graphite Debris - Conditioned	ILW	28.8	5.0	59.3	28.8
2S11	Windscale Uranic Residues	ILW	0.2	0.5	0.3	0.2
2S302	Windscale Pile1 and Pile 2 Graphite and Aluminium Charge Pans	ILW	0	1,930	6,360	5,210
2S303	Windscale Pile 2 LLW	LLW	0	110	2,150	1,720
2S304	Windscale Piles Fuel and Isotopes	ILW	0.1	252	144	126
2S307/C	Conditioned Windscale Advanced Gas-Cooled Reactor (WAGR) Decommissioning LLW	LLW	17.3	3.0	35.6	17.3
2S308/C	Conditioned WAGR Decommissioning ILW	ILW	610.6	107	1,270	616
2S309	AGR Examination Caves LLW	LLW	0	41.6	812	649
2S310	AGR Examination Caves ILW	ILW	0	3.7	73.5	40.0
2S311	Other Facilities Decommissioning LLW	LLW	0.5	222	4,330	3,470
2S312	Other Facilities Decommissioning ILW	ILW	1.0	72.0	254	223
2S313	Windscale Piles Miscellaneous ILW	ILW	6.8	1,660	5,480	4,480
2S314	WAGR - HVVLLW	VLLW	0	0	6,660	6,660
2S315	Pile 1 & 2 Interim Store Decommissioning - HVVLLW	VLLW	0	NE	NE	NE
Nuclear Decommissioning Authority - Sellafield Ltd - Sellafield						
2X01	PCM Stores and WTC LLW	LLW	0	39.6	772	617

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2X02	Magnox Plutonium Finishing Lines & Plutonium Stores LLW	LLW	0	42.6	830	664
2X03	Decontamination Centre LLW	LLW	0	2.8	54.3	43.5
2X05	Site Clearance LLW	LLW	0	377	7,350	5,880
2X05/1	SEP Surface Drainage System Solids and Lagoon Sediment LLW	LLW	0	117	2,290	1,840
2X06	Redundant NNL Facilities AC&M LLW	LLW	0	3.0	57.9	46.3
2X07	Demolition of Development Centre B and Ancilliary Buildings	LLW	0	7.5	146	117
2X08	Reprocessing Plant LLW (excluding PS1 and Dissolver Tower Area)	LLW	0	29.3	571	456
2X09	Reprocessing Plant: PS1 and Dissolver Tower Area LLW	LLW	0	4.1	80.2	64.1
2X10	Reprocessing Plant: Thermal Denitration Plant Area and UO3 Rework Facility LLW	LLW	0	25.8	503	402
2X11	Reprocessing Plant: MA Evaporator Area	LLW	0	14.9	291	233
2X15	HLW Plants: HA Evaporation & Storage LLW	LLW	0	60.1	1,170	937
2X16	Low Active Effluent Management Group: Salt Evaporator LLW	LLW	0	7.6	149	119
2X17	Low Active Effluent Management Group: MA Tanks LLW	LLW	0	5.3	103	82.4
2X18	Low Active Effluent Management Group: LA Treatment & Sludge Tanks	LLW	0	1.8	35.9	28.7
2X19	Low Active Effluent Management Group: SETP Operational LLW	LLW	0	4.3	83.8	67.0
2X19/2	Low Active Effluent Management Group: LA Effluent Treatment Plant Decommissioning LLW	LLW	0	1.7	32.8	26.3
2X20	Magnox Ponds West: Magnox Storage Pond and Decanning Facility	LLW	0	191	3,730	2,980
2X21	Magnox Ponds West: Magnox Flask Maintenance LLW	LLW	0	10.9	212	170
2X22	Calder LLW	LLW	0	0	0	0
2X25	Ponds East River: Fuel Handling Plant LLW	LLW	0	164	3,210	2,560
2X26	Ponds East River: SIXEP LLW	LLW	0	21.6	421	337
2X27	Ponds East River: AGR Dismantler & Store LLW	LLW	0	17.0	332	266
2X28	Wet Inlet Facility LLW	LLW	0	5.1	99.6	79.7
2X29	LWR Storage Pond	LLW	0	28.2	549	439
2X30	AGR Storage Pond	LLW	0	6.8	133	106
2X31	Oxide Ponds: THORP Flask Maintenance LLW	LLW	0	19.3	377	301
2X32	THORP Receipt & Storage LLW	LLW	0	92.7	1,810	1,450
2X35	MEP LLW	LLW	0	5.7	111	89.0
2X36	WEP LLW	LLW	0	7.9	154	123
2X37	Miscellaneous Beta Gamma Waste Store LLW	LLW	0	13.1	256	205
2X39	WVP: Vitrification Process LLW	LLW	0	140	2,730	2,190
2X49	Safety Equipment Workshop and Medium and High Active Laundry Waste	LLW	0	227	4,430	3,550
2X50	New Effluent Plants	LLW	0	34.6	676	540
2X51	Feed Pond LLW	LLW	0	3.0	58.8	47.1
2X52	Head End LLW	LLW	0	10.4	202	162
2X53	Uranium Purification/Finishing LLW	LLW	0	9.8	191	153
2X54	Plutonium Purification/Finishing LLW	LLW	0	5.7	112	89.6
2X55	Uranium (IV) LLW	LLW	0	2.0	39.4	31.5
2X57	Chemical Separation Effluents LLW	LLW	0	13.0	254	203
2X59	Disposal of Solid Low Level Waste from PIE Laboratory, Stream 20	LLW	0	0.2	4.8	3.8
2X62	SMP LLW (Uranium Areas)	LLW	0	0.9	17.1	13.7
2X64	SMP LLW (MOX)	LLW	0	8.8	172	137
2X65	Radioactive Sources	LLW	0	<0.1	0.5	0.4
2X68	Analytical Services Facilities	LLW	0	293	5,710	4,570

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
2X71	Solvent Treatment Plant LLW	LLW	0	1.9	37.2	29.8
2X72	Oxide Transport Containers (Baskets and Stools)	LLW	0	0.4	7.3	5.8
2X74	Mixed Oxide Areas of MDF	LLW	0	3.5	68.1	54.5
2X82	Low Active Drain (LAD) Zones 5-9	LLW	0	1.3	26.2	21.0
2X83	Low Active Drain (LAD) Zone 4	LLW	0	0.1	2.2	1.8
2X84	Low Active Drain (LAD) Zones 1&3	LLW	0	0.4	8.7	7.0
2X104	Secondary Waste from Processing Contaminated Oils and Metal	LLW	5.0	0.2	3.2	2.6
2X108	Separation Head Plant Outcell Clearance	LLW	0	429	8,360	6,690
2X114	Caesium Extraction Plant Decommissioning	LLW	0	6.1	119	95.1
2X115	Pile Chimney Decommissioning	LLW	0	10.0	195	156
2X116	PFR Plant Decommissioning	LLW	0	2.4	46.7	37.4
2X117	Pond Decommissioning	LLW	0	27.8	543	434
2X118	Purification Plant Decommissioning	LLW	0	10.3	201	161
2X119	Thorp Miniature Pilot Plant Clearance and Decommissioning	LLW	0	109	2,130	1,700
2X122	Research & Development Laboratories 54 & 54A	LLW	0	0.5	8.8	7.1
2X124	Pile Fuel Cladding Silo Retrievals Project LLW	LLW	0	81.1	1,580	1,260
2X125	Silo Decommissioning	LLW	0	264	5,140	4,110
2X127	Workshop & Incident Control Centre	LLW	0	7.2	140	112
2X128	Decontamination Plant & Compound Washdown Area LLW	LLW	0	4.0	77.1	61.7
2X130/1	North Group Compound Crate Storage Area LLW	LLW	0	6.6	129	103
2X131	Stored Miscellaneous Beta/Gamma Active Solid Waste	LLW	110.0	2.3	44.9	35.9
2X133	Magnox Sludge Settling and Transfer Facility LLW	LLW	0	8.6	169	135
2X140	Miscellaneous Demolition Waste	LLW	0	24.0	468	374
2X301	Pile 1 LLW	LLW	0	4.0	77.3	61.8
2X302	Mixed waste from PIE Work and Supporting Operations	LLW	0	161	3,140	2,510
2X302/7	Fuel Element Storage and Handling Compactable LLW	LLW	0	5.4	106	84.9
2X307/3	WAGR Solid Low Level Waste	LLW	0	19.9	387	310
2X307/4	WAGR Neutron Activated and Contaminated LLW	LLW	0	6.4	125	99.8
Nuclear Decommissioning Authority - Sellafield Ltd - Sellafield						
2Y49	Analytical Services Process Facilities - Laboratory 188C	LLW	0	0.4	8.0	6.4
2Y50	Analytical Services Process Facilities - Laboratory 195	LLW	0	0.5	10.3	8.2
2Y51	Analytical Services Process Facilities - North Labs	LLW	0	0.1	2.5	2.0
2Y53	Separation Area Ventilation Plant Decommissioning	LLW	0	8.0	156	124
2Y56	Analytical Services Process Facilities - LA Labs	LLW	0	13.3	260	208
2Y57	Excavated Soil and Putrescible Waste - High Volume Very Low Level Waste (HVVLLW)	VLLW	0	0	60,900	60,900
EDF Energy - EDF Energy Nuclear Generation Ltd - Dungeness B						
3J01	Ion Exchange Material	ILW	34.3	233	133	109
3J02	Sludge	ILW	4.4	18.8	10.7	8.8
3J03	Miscellaneous Contaminated Items	ILW	2.7	30.0	17.1	14.1
3J04	Desiccants ILW	ILW	85.0	10.4	203	163
3J09	Miscellaneous Activated Components - Debris Vault 3	ILW	5.1	0.6	12.8	9.1
3J11	Reactor Vessel Internals and Dry Fuel Route LLW	LLW	23.7	8.2	160	128
3J12	General Reactor LLW	LLW	45.0	4.6	89.1	71.3
3J13	Wet Fuel Route LLW	LLW	23.7	7.2	141	113
3J19	Catalysts LLW	LLW	1.1	0.2	4.1	3.3
3J20	Catalysts ILW	ILW	1.0	0.3	6.2	4.9
3J22	Miscellaneous Sludges	LLW	4.0	0.3	5.0	4.0
3J24	Neutron Scatter Plugs	ILW	27.0	23.8	477	340
3J25	Gag Pistons	ILW	11.2	1.0	19.5	15.6
3J26	Miscellaneous Activated Components - Debris Vault 1	ILW	73.0	10.1	203	145

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3J27	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	235.2	32.5	652	465
3J110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	33.0	643	514
3J111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	53.2	1,040	830
3J112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	30.8	600	480
3J113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	39.0	760	608
3J114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.0	57.8	46.2
3J311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	1.3	26.3	18.8
3J312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	33.1	662	473
3J313	Decommissioning Stage 3: Graphite ILW	ILW	0	183	3,670	2,620
3J314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	42.7	856	806
3J315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	50.9	1,020	961
3J317	Decommissioning Stage 3: Graphite LLW	LLW	0	113	2,260	2,130
3J318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	52.3	1,050	988
3J319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	7.8	155	146
3J320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	25.4	509	479
EDF Energy - EDF Energy Nuclear Generation Ltd - Hartlepool						
3K01	Pond Water Ion Exchange Material	ILW	3.9	31.5	18.0	14.8
3K02	Active Effluent Filtration Sludges	LLW	46.0	4.1	79.7	63.7
3K03	Miscellaneous Contaminated Items	ILW	0	19.2	10.9	9.0
3K04	Desiccant	ILW	88.4	12.9	251	201
3K09	Miscellaneous Activated Components - Debris Vault 1	ILW	16.5	2.0	39.6	28.2
3K14	Gas Circulator LLW	LLW	18.9	5.8	112	89.8
3K15	Dry Fuel Route LLW	LLW	19.2	6.4	124	99.5
3K16	Wet Fuel Route LLW	LLW	20.3	12.7	247	198
3K17	Waste Sorting LLW & Incinerator Ash	LLW	4.8	1.9	37.3	29.9
3K18	Pond Water Filtration Sludge	ILW	3.2	21.5	12.3	10.1
3K20	Gas Circulator Maintenance Sludge	LLW	1.1	0.1	2.0	1.6
3K22	Catalyst	ILW	2.0	0.6	11.1	8.9
3K23	Miscellaneous Activated Components - Debris Vault 3	ILW	0.5	<0.1	0.8	0.6
3K24	Miscellaneous Activated Components - Spalled Oxide & Dust	ILW	10.1	1.1	21.8	15.6
3K25	Miscellaneous Activated Components - Debris Vault 4	ILW	163.4	19.3	386	275
3K26	Laundry LLW	LLW	3.1	1.9	37.0	29.6
3K27	Active Effluent Ion Exchange Material	LLW	3.0	0.3	5.6	4.5
3K28	Miscellaneous Activated Components - Tie Bar Ends & Nuts	ILW	1.5	0.2	4.1	2.9
3K29	Bypass Blowdown Filters	ILW	6.1	1.9	37.5	30.0
3K30	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	73.2	8.9	179	128
3K110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	21.1	412	329
3K111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	144	2,810	2,250
3K112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	46.8	912	729
3K113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	51.0	995	796
3K114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.2	61.6	49.3
3K311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	18.0	360	257
3K312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	17.1	343	245
3K313	Decommissioning Stage 3: Graphite ILW	ILW	0	197	3,940	2,810
3K314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	18.9	378	357

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
3K315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	22.0	441	416
3K317	Decommissioning Stage 3: Graphite LLW	LLW	0	30.2	605	570
3K318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	107	2,150	2,020
3K319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	10.1	203	191
3K320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	26.9	538	507
EDF Energy - EDF Energy Nuclear Generation Ltd - Heysham 1						
3L01	Pond Water Ion Exchange Material	ILW	9.3	69.0	39.4	32.4
3L02	Pond Water Filtration Sludge	ILW	3.3	16.9	9.7	7.9
3L03	Miscellaneous Contaminated Items	ILW	2.0	27.5	15.7	12.9
3L04	Desiccant	ILW	20.0	7.2	140	112
3L09	Miscellaneous Activated Components - Debris Vault 1	ILW	10.6	1.4	27.7	19.8
3L11	Dry Fuel Route LLW	LLW	17.1	3.0	58.9	47.2
3L12	Wet Fuel Route LLW	LLW	9.4	7.1	138	110
3L13	Gas Circulators LLW	LLW	26.7	4.8	94.0	75.2
3L14	Vacuum Cleaners LLW	LLW	1.2	0.1	2.0	1.6
3L15	Active Effluent Ion Exchange Material	LLW	5.6	0.5	10.0	8.0
3L16	Active Effluent Filtration Sludges	LLW	28.8	2.7	51.9	41.5
3L17	Gas Circulator Maintenance Sludge	ILW	1.5	8.3	4.8	3.9
3L18	Miscellaneous Sludges	LLW	2.5	0.2	3.1	2.5
3L19	Catalyst	ILW	3.0	0.5	9.9	7.9
3L20	Miscellaneous Activated Components - Debris Vault 3	ILW	0.2	2.3	45.3	32.4
3L21	Miscellaneous Activated Components - Spalled Oxide and Dust	ILW	8.6	1.0	19.4	13.8
3L22	Fuel Stringer Debris - Debris Vault 4	ILW	153.4	18.2	364	260
3L23	Miscellaneous Activated Components - Tie Bar Ends & Nuts	ILW	1.3	0.2	3.3	2.3
3L24	Bypass Blowdown Filters	ILW	15.2	2.9	57.0	45.6
3L25	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	63.1	7.9	158	113
3L110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	21.1	411	329
3L111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	152	2,970	2,370
3L112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	28.3	551	441
3L113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	49.0	955	764
3L114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.0	58.8	47.0
3L311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	18.0	360	257
3L312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	17.1	343	245
3L313	Decommissioning Stage 3: Graphite ILW	ILW	0	197	3,940	2,810
3L314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	18.9	378	357
3L315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	22.0	441	416
3L317	Decommissioning Stage 3: Graphite LLW	LLW	0	30.2	605	570
3L318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	107	2,140	2,010
3L319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	10.1	203	191
3L320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	26.9	538	507
EDF Energy - EDF Energy Nuclear Generation Ltd - Heysham 2						
3M01	Pond Ion Exchange Material	ILW	0.7	8.6	4.9	4.0
3M02	Pond Water Filter Sludge	ILW	0.6	3.9	2.2	1.9
3M03	Miscellaneous Contaminated Items	ILW	6.5	56.3	32.1	26.4
3M04	Desiccant	ILW	0	6.7	130	104
3M08	Active Effluent Ion Exchange Material	ILW	0	6.9	3.9	3.2

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
3M09	Active Effluent Filters Sludge	LLW	10.6	1.8	34.3	27.5
3M10	Oily Sludge	LLW	4.1	0.6	12.2	9.8
3M13	Wet Fuel Route - Low Level Waste	LLW	6.0	10.9	212	170
3M14	Gas Circulator Maintenance - Low Level Waste	LLW	6.3	0.4	8.7	6.9
3M15	Waste Sorting - Low Level Waste	LLW	19.2	1.5	29.9	23.9
3M17	Catalysts	ILW	0	1.4	26.4	21.1
3M19	Reactors and Dry Fuel Route - Low Level Waste	LLW	24.5	12.0	234	187
3M20	Miscellaneous Sludges LLW	LLW	2.0	0.1	2.5	2.0
3M22	Miscellaneous Activated Components & Fuel Stringer Debris	ILW	162.6	24.8	497	355
3M110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	24.1	469	375
3M111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	67.4	1,310	1,050
3M112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	41.6	811	649
3M113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	56.5	1,100	881
3M114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.0	59.0	47.2
3M311	Decommissioning stage 3: Stainless Steel (Reactor) ILW	ILW	0	11.6	231	165
3M312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	47.8	957	683
3M313	Decommissioning Stage 3: Graphite ILW	ILW	0	175	3,510	2,510
3M314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	17.3	347	327
3M315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	50.7	1,020	957
3M317	Decommissioning Stage 3: Graphite LLW	LLW	0	43.6	873	823
3M318	Stage 3 decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	186	3,720	3,510
3M319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	39.9	800	754
3M320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	27.4	549	518
EDF Energy - EDF Energy Nuclear Generation Ltd - Hinkley Point B						
3N01	Ion Exchange Material	ILW	6.9	70.5	40.3	33.1
3N02	Sludge	ILW	11.5	47.6	27.2	22.4
3N04	Desiccants and Catalysts	ILW	161.2	22.8	444	356
3N12	Gas Circulator LLW	LLW	13.7	7.1	138	110
3N13	Wet Fuel Route LLW	LLW	17.8	12.2	238	190
3N14	General Reactor LLW	LLW	24.1	23.1	450	360
3N15	Dry Fuel Route LLW	LLW	2.2	2.1	40.2	32.2
3N16	Decontamination LLW	LLW	1.3	0.9	17.8	14.2
3N33	Incinerator Ash	LLW	0.8	0.3	5.5	4.4
3N34	Waste Sorting LLW	LLW	5.1	2.8	54.8	43.8
3N35	Miscellaneous Sludges	LLW	3.0	0.2	3.8	3.0
3N37	Miscellaneous Contaminated Items	ILW	0	21.3	12.1	10.0
3N38	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 1	ILW	565.7	58.5	1,170	837
3N39	Miscellaneous Activated Components & Fuel Stringer Debris - Debris Vault 2	ILW	54.9	6.2	124	88.2
3N40	Miscellaneous Activated Components - Debris Vault 3	ILW	0.1	<0.1	0.2	0.2
3N41	Miscellaneous Activated Components - Debris Vault 4	ILW	5.4	0.6	12.9	9.2
3N110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	13.1	256	205
3N111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	40.8	795	636
3N112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	30.3	590	472
3N113	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	50.3	982	785
3N114	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	3.1	61.3	49.1
3N311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	15.9	319	228

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
3N312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	48.5	971	693
3N313	Decommissioning Stage 3: Graphite ILW	ILW	0	161	3,220	2,300
3N314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	19.6	393	371
3N315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	37.2	746	703
3N317	Decommissioning Stage 3: Graphite LLW	LLW	0	31.1	623	587
3N318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	68.0	1,360	1,280
3N319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	76.6	1,530	1,450
3N320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	22.5	450	425
EDF Energy - EDF Energy Nuclear Generation Ltd - Sizewell B						
3S03	Spent Cartridge Filters (ILW)	ILW	19.0	688	413	82.6
3S04	Sludges and Concentrates	LLW	2.8	3.6	70.6	56.4
3S05	Miscellaneous Contaminated Items	ILW	41.7	656	374	308
3S06	Spent Resins (LLW)	LLW	65.4	131	2,550	2,040
3S07	Station Maintenance and Operations LLW	LLW	92.9	41.3	804	644
3S08	Secondary Cartridge Filters (LLW)	LLW	6.5	7.0	137	109
3S09	Miscellaneous Activated Components	ILW	7.5	2.3	46.6	33.3
3S12	CVCS Resins and Spent Resins (ILW)	ILW	25.0	150	198	73.6
3S101	Decommissioning: Station Maintenance LLW	LLW	0	17.2	335	268
3S301	Decommissioning: Mild Steel LLW	LLW	0	242	4,720	3,770
3S302	Decommissioning: Mild Steel ILW	ILW	0	208	4,170	2,970
3S303	Decommissioning: Concrete LLW	LLW	0	47.1	919	735
3S304	Decommissioning: Secondary Wastes & Miscellaneous Materials LLW	LLW	0	182	3,550	2,840
3S305	Decommissioning: Stainless Steel LLW	LLW	0	28.6	558	447
3S306	Decommissioning: Stainless Steel ILW	ILW	0	23.1	463	330
3S307	Decommissioning: Concrete ILW	ILW	0	2.7	54.4	38.8
EDF Energy - EDF Energy Nuclear Generation Ltd - Flasks & Flatrols						
3Z202	AGR Fuel Transport Flasks	LLW	0	0	428	428
3Z203	Rail Flatrols	LLW	0	2.9	57.1	45.7
EDF Energy - EDF Energy Nuclear Generation Ltd - Hunterston B						
4B01	Ion Exchange Resin and Sand	ILW	18.1	138	78.5	64.6
4B04	Sludge	ILW	27.2	154	88.0	72.5
4B06	Desiccants and Catalysts	ILW	260.0	37.7	735	588
4B12	Wet Fuel Route LLW	LLW	9.3	9.5	185	148
4B13	General Reactor LLW	LLW	84.8	36.4	709	567
4B14	Laundry LLW	LLW	20.8	10.1	197	158
4B15	Miscellaneous Sludges	LLW	7.0	0.4	8.8	7.0
4B17	Miscellaneous Contaminated Items	ILW	4.0	38.7	22.1	18.2
4B18	Miscellaneous Activated Components - Debris Vault 1	ILW	530.6	61.2	1,230	876
4B19	Miscellaneous Activated Components - Debris Vault 2	ILW	51.5	5.9	119	84.9
4B20	Miscellaneous Activated Components - Debris Vault 3	ILW	0.1	<0.1	0.2	0.1
4B21	Miscellaneous Activated Components - Debris Vault 4	ILW	5.1	0.6	11.6	8.3
4B110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	10.9	213	170
4B111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	35.2	686	549
4B112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	31.6	617	494
4B113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	49.5	965	772
4B114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.1	61.1	48.9
4B311	Decommissioning Stage 3: Stainless Steel (Reactor) ILW	ILW	0	15.9	319	228

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
4B312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	48.5	971	693
4B313	Decommissioning Stage 3: Graphite ILW	ILW	0	161	3,220	2,300
4B314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	19.6	393	371
4B315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	37.2	746	703
4B317	Decommissioning Stage 3: Graphite LLW	LLW	0	31.1	623	587
4B318	Stage 3 Decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	68.0	1,360	1,280
4B319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	70.0	1,400	1,320
4B320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	27.2	544	513
EDF Energy - EDF Energy Nuclear Generation Ltd - Torness						
4C01	Catalyst	ILW	0	1.0	19.1	15.3
4C02	Desiccant	ILW	0	6.2	120	96.2
4C03	Pond Water Filtration Resin	ILW	4.5	46.9	26.8	22.0
4C06	Active Effluent Filtration Resin	ILW	2.3	34.6	19.6	16.2
4C12	Miscellaneous Activated Components & Fuel Stringer Debris	ILW	197.3	25.5	511	365
4C13	Active Effluent and Workshop LLW	LLW	22.2	19.5	381	305
4C16	Dry Fuel Route LLW	LLW	18.8	11.0	214	171
4C17	Wet Fuel Route LLW	LLW	5.0	13.1	256	205
4C18	Active Effluent Filtration Sludge	LLW	3.6	1.1	21.9	17.5
4C19	Pond Water Filtration Sludge	ILW	0.9	4.8	2.8	2.3
4C20	Oily Sludge	LLW	0.2	<0.1	0.5	0.4
4C23	Miscellaneous Contaminated Items	ILW	11.0	83.0	47.4	39.0
4C110	Care & Maintenance Preparations: Stainless Steel LLW	LLW	0	23.6	461	369
4C111	Care & Maintenance Preparations: Mild Steel LLW	LLW	0	69.3	1,350	1,080
4C112	Care & Maintenance Preparations: Secondary Waste LLW	LLW	0	45.0	877	701
4C113	Care & Maintenance Preparations: Miscellaneous Metals and Materials LLW	LLW	0	63.0	1,230	983
4C114	Care & Maintenance: Miscellaneous Materials LLW	LLW	0	3.0	59.2	47.4
4C311	Decommissioning stage 3: Stainless Steel (Reactor) ILW	ILW	0	11.6	232	165
4C312	Decommissioning Stage 3: Mild Steel (Reactor) ILW	ILW	0	43.5	871	622
4C313	Decommissioning Stage 3: Graphite ILW	ILW	0	175	3,510	2,510
4C314	Decommissioning Stage 3: Stainless Steel (Reactor) LLW	LLW	0	17.3	347	327
4C315	Decommissioning Stage 3: Mild Steel (Reactor) LLW	LLW	0	50.7	1,020	957
4C317	Decommissioning Stage 3: Graphite LLW	LLW	0	43.6	873	823
4C318	Stage 3 decommissioning: Concrete (Reactor and Non-Reactor) LLW	LLW	0	186	3,720	3,510
4C319	Stage 3 Decommissioning: Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	39.7	795	749
4C320	Stage 3 Decommissioning: Secondary Wastes LLW	LLW	0	28.2	565	532
Nuclear Decommissioning Authority – Dounreay Site Restoration Ltd - Dounreay						
5B01	PFR Raffinate	ILW	212.1	695	397	348
5B02	Low Alpha RHILW	ILW	0	431	1,150	586
5B03	Operational RHILW	ILW	219.6	666	373	280
5B04	MTR Raffinate	ILW	42.7	0	0	0
5B04/C	Cemented MTR Raffinate	ILW	2,320.5	4,880	2,780	2,440
5B05	DFR Raffinate	ILW	222.5	876	500	438
5B15/C	Compacted LLW	LLW	4,863.0	312	6,080	4,860
5B16/C	Conditioned Bulk Operational LLW	LLW	2,476.8	159	3,100	2,480
5B19	Uranium Contaminated Materials	ILW	66.6	333	190	167
5B20	Contaminated Solvent and Oils	LLW	137.4	8.8	172	137
5B22	ADU Floc	ILW	164.0	529	302	265

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
5B24	Operational CHILW	ILW	777.2	777	444	389
5B25	ILW Shaft (Contents)	ILW	0	1,040	1,860	970
5B26	LLLETP Sludge	LLW	11.5	0.9	18.0	14.4
5B27	Thorium Nitrate	ILW	12.4	88.4	50.5	44.2
5B28	Graphite/THTR Waste	ILW	88.6	443	253	222
5B29	LSA Scale	ILW	228.4	143	1,690	827
5B32	Irradiated Thorium Fuel Pin Pieces	ILW	<0.1	6.7	3.8	3.3
5B33	PFR Mixer Breeder Sections	ILW	3.2	17.0	9.7	8.5
5B34	DFR Breeder Fuel Removal Waste	ILW	0	10.5	6.0	5.3
5B301	Prototype Fast Reactor LLW	LLW	172.2	249	4,860	3,890
5B301/C	Conditioned Prototype Fast Reactor, LLW	LLW	998.7	64.0	1,250	999
5B302	Prototype Fast Reactor ILW	ILW	3.0	563	1,110	652
5B303	Dounreay Fast Reactor LLW	LLW	101.0	268	5,220	4,180
5B303/C	Conditioned Dounreay Fast Reactor LLW	LLW	187.2	12.0	234	187
5B304	Dounreay Fast Reactor ILW	ILW	0	222	499	256
5B305	Site Drains and Ducts LLW	LLW	0	131	2,550	2,040
5B305/C	Site Drains and Ducts Conditioned LLW	LLW	312.0	20.0	390	312
5B307	PFR Reprocessing Plant LLW	LLW	130.2	231	4,500	3,600
5B308	PFR Reprocessing Plant ILW	ILW	22.3	422	323	230
5B309	Materials Test Reactor LLW	LLW	5.4	29.7	578	463
5B309/C	Conditioned Materials Test Reactor LLW	LLW	31.2	2.0	39.0	31.2
5B310	Materials Test Reactor ILW	ILW	0	3.1	36.3	17.6
5B311	Development Laboratory LLW	LLW	52.6	46.6	909	727
5B311/C	Conditioned Development Laboratory LLW	LLW	15.6	1.0	19.5	15.6
5B312	Development Laboratory ILW	ILW	112.7	426	241	194
5B313	HAL Store and Evaporation Plant LLW	LLW	41.2	69.3	1,350	1,080
5B314	HAL Store and Evaporation Plant ILW	ILW	0	16.4	195	94.6
5B315	MTR Reprocessing Plant LLW	LLW	140.8	88.4	1,720	1,380
5B315/C	Conditioned MTR Reprocessing Plant LLW	LLW	31.2	2.0	39.0	31.2
5B316/C	Conditioned Pu Laboratory LLW	LLW	312.0	20.0	390	312
5B317	Pu Laboratory ILW	ILW	18.0	18.0	10.3	9.0
5B323	Decommissioning Contaminated Soil	LLW	405.6	1,350	26,300	21,000
5B325	DFR Ion Exchange Columns	ILW	0.4	2.0	1.1	1.0
5B326	MTR Reprocessing Plant ILW	ILW	1.7	57.8	33.0	28.9
5B327/C	Conditioned Waste Treatment Complex Decommissioning LLW	LLW	46.8	3.0	58.5	46.8
5B329	CHILW Retrievable Drum Store LLW	LLW	0	1.5	29.3	23.5
5B330	CHILW Retrievable Drum Store ILW	ILW	0.1	0.9	0.5	0.4
5B331	RHILW Retrievable Drum Store LLW	LLW	169.4	20.6	401	321
5B332	RHILW Retrievable Drum Store ILW	ILW	1.8	6.0	3.4	3.0
5B333	DCP Vault Store and Extension LLW	LLW	59.6	136	2,640	2,110
5B334	DCP Vault Store and Extension ILW	ILW	2.1	223	127	112
5B335	Analytical Laboratories LLW	LLW	43.2	271	5,280	4,230
5B335/C	Conditioned Analytical Laboratories LLW	LLW	124.8	8.0	156	125
5B336	Analytical Laboratories ILW	ILW	18.9	170	96.8	84.8
5B337	Decontamination and Waste Services LLW	LLW	65.2	57.1	1,110	891
5B337/C	Conditioned Decontamination and Waste Services LLW	LLW	382.2	25.0	478	382
5B338	Decontamination and Waste Services ILW	ILW	18.6	21.6	12.3	10.8
5B339	PIE Facility LLW	LLW	142.8	7.2	141	113
5B339/C	Conditioned PIE Facility LLW	LLW	31.2	2.0	39.0	31.2
5B340	PIE Facility ILW	ILW	24.2	80.5	46.0	40.3
5B341	Pu Fuels Examination Facility LLW	LLW	67.2	110	2,140	1,710
5B342	Pu Fuels Examination Facility ILW	ILW	2.0	214	122	107
5B343	Other Facilities Decommissioning LLW	LLW	85.6	88.6	1,730	1,380
5B344	Other Facilities Decommissioning ILW	ILW	2.8	17.1	9.8	8.6

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
5B345	Service Corridor and Tank Farm LLW	LLW	9.4	21.4	416	333
5B347/C	Conditioned MTR Fuel Fabrication Plant LLW	LLW	78.0	5.0	97.5	78.0
5B348	Effluent Treatment Plant LLW	LLW	56.6	79.0	1,540	1,230
5B348/C	Conditioned Effluent Treatment Plant LLW	LLW	15.6	1.6	30.4	24.3
5B349	Uranium Recovery Plant LLW	LLW	21.6	120	2,340	1,870
5B349/C	Conditioned Uranium Recovery Plant LLW	LLW	140.4	9.0	176	140
5B350	Uranium Recovery Plant ILW	ILW	7.5	8.1	4.6	4.1
5B351	Changerooms LLW	LLW	0	10.9	212	169
5B352	Waste Receipt, Assay, Characterisation and Supercompaction Facility LLW	LLW	2.4	10.1	196	157
5B354	PFR SDP Ion Exchange Columns	ILW	3.6	18.0	10.3	9.0
5B355	Demolition LLW	LLW	2,433.6	0	18,400	18,400
5B357	DFR Pond Ion Exchange Columns	ILW	1.2	8.0	4.6	4.0
5B358	Previously Disposed LLW to be Retrieved	LLW	0	2,590	50,400	40,300
Nuclear Decommissioning Authority – Research Sites Restoration Ltd - Harwell						
5C08	ILW Concrete Lined Drums	ILW	1,061.0	97.4	1,950	1,060
5C18/C	Encapsulated ILW Liquors	ILW	20.5	41.0	23.4	20.5
5C30	Harwell Remote Handled ILW	ILW	98.9	309	176	124
5C38	Radiochemical Lab Operational LLW	LLW	6.1	1.2	23.9	19.1
5C39	Operational LLW	LLW	43.4	50.5	985	788
5C41	Operational LLW Sludge	LLW	3.0	1.3	24.4	19.5
5C45	GLEEP Fuel	ILW	1.9	43.2	24.7	17.3
5C46	Uranic Residues	ILW	5.2	0	0	0
5C47	Organic Wastes	LLW	1.0	0	0	0
5C50	Dragon Fuel	ILW	3.4	251	143	118
5C52	Processed RHILW	ILW	177.5	444	253	178
5C54	Zenith Fuel	ILW	0.6	1.8	1.0	0.7
5C300	High Volume Low Activity Waste from Decommissioning and Site Remediation	LLW	1,100.0	0	24,100	24,100
5C301	BEPO Research Reactor LLW	LLW	0	59.0	1,150	920
5C302	BEPO Research Reactor ILW	ILW	0	131	1,560	756
5C303	Radiochemical Building Decommissioning LLW	LLW	0.7	150	2,920	2,330
5C304	Radiochemical Laboratory Decommissioning CHILW	ILW	0	17.0	201	97.9
5C305	Dido Reactor Decommissioning LLW	LLW	0	21.6	421	337
5C306	Dido Reactor Decommissioning ILW	ILW	0	25.5	302	146
5C307	Pluto Reactor Decommissioning LLW	LLW	0	22.4	436	349
5C308	Pluto Reactor Decommissioning ILW	ILW	0	16.6	196	95.3
5C309	Minor Decommissioning LLW Arisings	LLW	0	0	585	585
5C310	Decommissioning Waste Handling Facilities ILW	ILW	0	2.3	45.9	25.0
5C312	Western Storage area LLW	LLW	56.8	0	56.8	56.8
5C313	Co60 Ponds Decommissioning LLW	LLW	0	10.0	195	156
5C314	LETP decommissioning LLW	LLW	0	96.0	1,870	1,500
5C315	Active Handling Facility Decommissioning LLW	LLW	10.0	16.5	321	257
5C316	Solid Waste Complex Decommissioning LLW	LLW	0	345	6,730	5,380
5C317	Harwell Contact Handled ILW Drums	ILW	915.4	84.0	1,680	915
5C318	Harwell Remote Handled ILW - Retrieved	ILW	12.9	40.3	23.0	16.1
5C319	Ripple Crates	LLW	20.1	2.0	39.3	31.4
5C320/C	Encapsulated ILW Sludges	ILW	6.5	13.0	7.4	6.5
5C321	Decommissioning Active Handling Facility ILW	ILW	0	1.0	11.9	5.8
Nuclear Decommissioning Authority – Research Sites Restoration Ltd - Winfrith						
5G01	Miscellaneous Reactor Hardware ILW	ILW	0.8	1.8	21.1	5.8
5G03/C	Conditioned SGHWR Sludges	LLW	534.0	61.4	1,640	1,370

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
5G04	Miscellaneous ILW	ILW	0.1	<0.1	0.2	0.1
5G10	ILW Concrete-lined Drums	ILW	4.6	1.8	21.8	10.6
5G300	Winfrith Contaminated Land	LLW	1,235.0	0	2,500	2,500
5G301	SGHWR Decommissioning LLW	LLW	0	358	6,030	4,670
5G302	SGHWR Decommissioning ILW	ILW	0	93.5	1,110	538
5G303	Dragon Reactor Decommissioning LLW	LLW	0	46.1	708	534
5G304	Dragon Reactor Decommissioning ILW	ILW	0	24.7	293	142
5G307	Other Facilities Decommissioning LLW	LLW	0	65.5	1,280	1,020
5G308	Legacy Decommissioning LLW	LLW	2,630.0	217	3,450	2,630
United Kingdom Atomic Energy Authority - United Kingdom Atomic Energy Authority - Culham						
5H06	LLW Incinerable Materials	LLW	45.0	0	0	0
5H07	LLW Non-Incinerable Materials	LLW	175.0	31.7	412	295
5H08	ILW Non-Incinerable Materials	ILW	45.0	118	67.4	55.0
5H09	ILW Incinerable Materials	ILW	16.5	0	0	0
5H10	High Volume Very Low Level Waste Materials	VLLW	1.0	0	61.0	61.0
5H301	JET Decommissioning Non-Activated ILW	ILW	0	15.2	155	68.3
5H302	JET Decommissioning Tritiated Non-Activated LLW	LLW	0	50.9	966	768
5H304	JET Decommissioning Tritiated Activated LLW	LLW	0	127	2,280	1,790
5H305	JET Decommissioning Concrete LLW	LLW	0	179	3,500	2,800
5H306	JET Decommissioning Activated ILW	ILW	0	59.0	603	265
5H307	LLW Organic Waste	LLW	0	0	0	0
Minor Waste Producers - Minor Waste Producers - Harwell						
6C31	NDS Contact Handled ILW	ILW	1.8	3.9	10.3	8.5
6C32	NDS Remote Handled ILW	ILW	0.3	0.9	0.5	0.4
Minor Waste Producers - Minor Waste Producers - Various sites						
6H02	LLW (Minor Users)	LLW	0	639	11,900	9,450
Minor Waste Producers - Minor Waste Producers - Sheffield						
6J01	Contaminated Slag and Other Materials	LLW	647.6	26.2	746	648
Minor Waste Producers - Minor Waste Producers - Reactor Centre, Ascot						
6K101	Am/Be Sources	ILW	0	<0.1	0.2	0.1
6K102	Cadmium and Aluminium Linings	ILW	0	<0.1	0.6	0.3
6K103	Control Rods	ILW	0	<0.1	<0.1	<0.1
6K104	Core Support Plate	ILW	0	<0.1	0.1	<0.1
6K105	Graphite Columns	ILW	0	0.4	7.4	4.0
6K106	Irradiation Tubes	ILW	0	<0.1	0.1	0.1
6K107	Miscellaneous Stainless Steel Items	ILW	0	<0.1	<0.1	<0.1
6K108	Miscellaneous LLW	LLW	0	0.6	12.2	9.8
6K109	Reactor Concrete Biological Shield	LLW	0	7.7	150	120
Ministry of Defence - AWE plc - AWE Aldermaston & Burghfield						
7A07	Effluent Sludges/Floc	LLW	0	0	0	0
7A13	Sea Disposal Packs (Coffins)	ILW	483.0	1,030	587	483
7A21	Operational ILW Plutonium Contaminated	ILW	1,759.0	1,600	914	800
7A22	Operational ILW Tritium Hard Waste	ILW	27.0	23.3	13.3	11.7
7A23	Operational LLW Above the LLWR Limit	LLW	100.0	6.4	125	100
7A24	Operational LLW - Depleted/Natural Uranium	LLW	215.0	0	594	594
7A25	Operational Tritiated LLW	LLW	5.0	0	0	0
7A26	Operational LLW - Enriched Uranium	LLW	121.0	0	230	230

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
7A27	Operational LLW - Plutonium	LLW	300.0	12.7	420	371
7A28	Operational LLW - Miscellaneous Radionuclides	LLW	0	0	9.1	9.1
7A29	Uranium Contaminated Operations ILW	ILW	7.0	6.7	3.8	3.3
7A32	Closed Sources	LLW	0	0	0	0
7A33	Radioactive Contaminated Land	LLW	216.0	0	3,910	3,910
7A34	Contaminated Oil	LLW	10.0	1.4	27.5	22.0
7A36	Pyrochemical Wastes	ILW	20.0	42.9	24.5	20.0
7A37	Contaminated Mercury	LLW	0.1	0	0	0
7A40	Experimental Metallic Vessels	ILW	23.0	70.8	40.4	33.0
7A108	Decommissioning LLW Above the LLWR Limit	LLW	538.0	34.5	673	538
7A109	Decommissioning Waste from Reactors ILW	ILW	3.0	1.3	4.2	3.5
7A110	Decommissioning Waste Tritium Bearing ILW	ILW	7.0	54.2	30.9	27.1
7A111	Decommissioning Waste PCM ILW	ILW	1,705.0	4,460	2,540	2,230
7A112	Decommissioning LLW - Natural / Depleted Uranium	LLW	124.0	0	783	783
7A113	Decommissioning LLW - Tritiated	LLW	0.5	0	0	0
7A114	Decommissioning LLW - Enriched Uranium	LLW	0	0	723	723
7A115	Decommissioning LLW - Plutonium	LLW	687.0	0	3,840	3,840
7A116	Decommissioning LLW - Miscellaneous	LLW	17.0	0	40.8	40.8
7A117	Decommissioning Waste Uranium Contaminated ILW	ILW	0	1,040	591	518
Ministry of Defence - Babcock International Group - HMNB Devonport						
7D22	Soft Trash from Nuclear Repair Activities	LLW	4.0	4.9	95.3	76.2
7D23	Hard Trash from Nuclear Repair Activities	LLW	6.6	8.0	155	124
7D24	ILW Reactor Components	ILW	3.3	0.7	14.4	11.5
7D26/C	Conditioned Low Level Ion Exchange Resin (excl. Plant Decontamination)	LLW	1.9	14.9	291	233
7D28	Low Level Waste Resin from Plant Decontamination (MODIX)	LLW	11.3	2.5	48.8	39.0
7D29	Intermediate Level Waste Resin from Plant Decontamination (MODIX)	ILW	11.2	2.5	48.6	38.9
7D30/C	Conditioned Sludge from Tank Cleaning Operations	LLW	2.6	7.3	142	114
7D31/C	Supercompacted Low Level Filters (from Effluent Treatment Processes)	LLW	3.6	2.0	38.6	30.9
7D32	Intermediate Level Filters from Plant Decontamination Processes	ILW	0	NE	NE	NE
7D33	TSSBN Refitting: Filters	LLW	0	NE	NE	NE
7D34	Ion Exchange Resin from Primary Circuit Decontamination	LLW	5.0	1.7	33.8	27.0
7D35	Boronated LLW Ion Exchange Resin	LLW	2.7	1.2	23.4	18.7
7D36	Low level Waste - LLRF Ion Exchange Resin	LLW	1.2	0.5	10.4	8.3
7D37	Low Level Waste - LLRF Concentrate	LLW	1.0	0.4	8.7	6.9
7D38	Low Level Waste - PWR 1&2 Boron Concentrate	LLW	10.5	4.7	91.0	72.8
7D39/C	LLW Submarine Ion Exchange Resin	LLW	2.8	2.1	40.1	32.1
7D40	ILW PCD Ion Exchange Resin	ILW	8.3	1.8	35.8	28.6
7D41	ILW Submarine Ion Exchange Resin	ILW	2.8	3.3	64.1	51.3
7D90	Very Low Level Waste (VLLW) Generated from Nuclear Repair Activities	VLLW	27.0	0	8,530	8,530
7D100	Solid LLW arising from Plant Decommissioning	LLW	0	2.2	42.3	33.8
Ministry of Defence - Babcock International Group - Rosyth Royal Dockyard						
7E22	Submarine Refitting Wastes (Soft Trash)	LLW	4.8	1.3	25.0	20.0
7E23	Metallic Waste	LLW	0	2.9	40.8	30.0
7E26	Low Level Resin from Submarines & Effluent Treatment Plant	LLW	2.1	1.4	28.1	22.5
7E27	Submarine Ion Exchange Resin	ILW	1.4	0.6	12.4	9.9
7E28	Ion Exchange Resin from Submarine Decontamination Process	LLW	3.5	1.2	23.5	18.8

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
7E29	Intermediate Level Ion Exchange Resin (Decontamination)	ILW	15.4	5.3	104	82.8
7E101	Site and Facilities Decommissioning Waste: Steel and Building Rubble	LLW	0	1.8	32.0	25.0
Ministry of Defence - Ministry of Defence - Clyde Submarine Base						
7F22	Submarine Reactor Wastes (Non-metallic)	LLW	2.0	9.2	179	144
7F23	Submarine Reactor Wastes (Metallic LLW)	LLW	1.0	0	0	0
7F26/C	Conditioned Ion Exchange Resin from Nuclear Effluent Plants	LLW	0	9.4	184	147
7F28	Tritiated Desiccant	LLW	0.2	4.8	94.3	75.4
Ministry of Defence - Babcock and Ministry of Defence - Rosyth & Devonport (Submarines)						
7G103	LLW from Decommissioned Submarines	LLW	0	15.1	197	141
7G104	Long-Lived ILW from Decommissioned Submarines	ILW	0	384	1,390	1,080
Ministry of Defence - Ministry of Defence - HMNB Portsmouth						
7J23	Miscellaneous LLW sent to LLWR	LLW	0.8	<0.1	0.4	0.3
7J25	Low Level Luminised Waste sent to LLWR	LLW	2.4	0.3	6.3	5.0
7J27	Intermediate Level Tritium Waste	ILW	0.1	0.3	0.2	0.2
Ministry of Defence - QinetiQ - Eskmeals						
7L05	Redundant Equipment Contaminated with Depleted Uranium	LLW	0	0	0	0
Ministry of Defence - Ministry of Defence - Logistic Services Donnington						
7N03	Logistic Services (LS) Donnington Miscellaneous LLW	LLW	0	4.5	87.5	70.0
Ministry of Defence - Ministry of Defence - Defence Infrastructure Organisation						
7S01	Contaminated Soil, Ash & Rubble	LLW	338.0	24.9	486	389
Ministry of Defence - Rolls Royce Marine Power Operations Ltd - NRTE Vulcan						
7V24	Metallic ILW from Vulcan	ILW	5.9	7.6	149	119
7V25	Resin from Decontamination Operations	ILW	2.6	0.4	7.1	5.7
7V26	Vulcan Supercompactable Drummed Low Level Waste	LLW	0	1.8	35.7	28.5
Ministry of Defence - Rolls Royce Marine Power Operations Ltd - RRMPOL Derby						
7X01	RRMPOL Low Level Wastes	LLW	40.0	114	1,660	1,240
Ministry of Defence - BAE Systems Marine Limited - BAESM Barrow-in-Furness						
7Y101	Decommissioning of Chemistry Laboratory	LLW	0	0	0	0
7Y102	Decommissioning of Waste Treatment Facility	LLW	0	0	0	0
7Y103	Contaminated Area of DTO Car Park	LLW	0	0.1	2.5	2.0
7Y104	Contaminated Area at D07	LLW	0	0.3	5.0	4.0
Urenco - Urenco - Capenhurst						
8A01	Feed Filter Material	ILW	0.7	5.3	3.0	2.5
8A03	Contaminated Compactable Waste	LLW	292.0	10.5	205	164
8A04	Contaminated Non-Compactable Waste	LLW	164.0	0	343	343
8A101	Centrifuge Plant Decommissioning	LLW	5.0	1.4	28.1	22.5

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
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Urenco - Capenhurst Nuclear Services - Capenhurst						
8B05	Empty Uranium Hexafluoride Containers	LLW	54.5	0	0	0
8B19	Solid Waste from B36 and Legacy Cylinder Facility (LCF)	LLW	3.0	2.6	50.0	40.0
8B103	Capenhurst Decommissioning Waste	LLW	503.0	619	12,100	9,650
Nuclear Decommissioning Authority - Magnox Ltd - Berkeley						
9A03	Ion Exchange Material	ILW	12.4	5.0	27.0	14.0
9A18	Desiccant	ILW	10.3	1.7	33.5	26.8
9A25	Ion Exchange Material in Drums	ILW	13.5	5.4	29.4	15.3
9A27	Sludge	ILW	10.6	4.2	23.1	12.0
9A31	FED Graphite	ILW	150.7	60.3	328	171
9A32	FED Graphite	ILW	225.2	90.1	490	255
9A33	FED Graphite	ILW	265.2	106	577	300
9A34	FED Graphite	ILW	156.1	62.4	340	177
9A35	FED Graphite	ILW	65.1	26.0	142	73.7
9A36	Miscellaneous Contaminated Items	ILW	0.2	0.1	0.5	0.2
9A37	Miscellaneous Contaminated Items	ILW	0.2	0.1	0.4	0.2
9A38	Miscellaneous Contaminated Items	ILW	10.9	4.4	23.7	12.3
9A39	FED Magnox	ILW	16.0	6.4	34.8	18.1
9A40	FED Magnox	ILW	24.0	9.6	52.2	27.2
9A41	FED Magnox	ILW	28.0	11.2	60.9	31.7
9A42	FED Magnox	ILW	17.0	6.8	37.0	19.2
9A43	FED Magnox	ILW	7.0	2.8	15.2	7.9
9A44	Miscellaneous Activated Components	ILW	37.6	63.8	148	41.8
9A45	Miscellaneous Activated Components	ILW	10.0	0.6	12.4	11.7
9A46	Miscellaneous Activated Components	ILW	10.0	0.6	12.4	11.7
9A47	FED Stainless Steel	ILW	0.3	0.1	0.6	0.3
9A48	FED Stainless Steel	ILW	0.4	0.2	1.0	0.5
9A49	FED Stainless Steel	ILW	0.5	0.2	1.1	0.6
9A50	FED Stainless Steel	ILW	0.3	0.1	0.7	0.3
9A51	FED Stainless Steel	ILW	0.1	0.1	0.3	0.1
9A52	FED Zirconium	ILW	2.2	0.9	4.8	2.5
9A53	FED Zirconium	ILW	3.3	1.3	7.2	3.7
9A54	FED Zirconium	ILW	4.0	1.6	8.7	4.5
9A55	FED Zirconium	ILW	2.4	1.0	5.2	2.7
9A56	FED Zirconium	ILW	1.0	0.4	2.2	1.1
9A57	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	48.5	19.4	106	54.9
9A58	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	14.3	5.7	31.1	16.2
9A59	Sludge (filter-precoat) from Berkeley Technology Centre	ILW	0.5	0.2	1.1	0.6
9A60	FED Magnox from Post Irradiation Examination	ILW	0.7	0.5	1.6	0.7
9A61	FED Magnox from Post Irradiation Examination	ILW	61.9	44.3	155	70.0
9A62	FED Magnox from Post Irradiation Examination	ILW	1.9	1.4	4.8	2.1
9A63	FED Magnox from Post Irradiation Examination	ILW	0.1	0.1	0.3	0.1
9A64	FED Magnox from Post Irradiation Examination	ILW	6.8	4.9	17.1	7.7
9A65	FED Magnox from Post Irradiation Examination	ILW	0.5	0.3	1.1	0.5
9A66	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	<0.1	0.2	0.1
9A67	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	<0.1	0.2	0.1
9A68	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	53.2	21.3	116	60.2
9A69	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	27.5	11.0	59.8	31.1
9A70	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	30.8	12.3	67.0	34.9
9A71	BPS ILW Sludge in Drums	ILW	38.6	15.4	84.0	43.7

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9A72	BPS ILW Sludge in Drums	ILW	7.6	3.0	16.5	8.6
9A73	Contaminated Gravel	ILW	47.0	18.8	102	53.2
9A74	Contaminated Gravel	ILW	47.0	18.8	102	53.2
9A75	Contaminated Gravel	ILW	47.0	18.8	102	53.2
9A76	Contaminated Gravel	ILW	21.6	8.6	47.0	24.5
9A77	BPS Sludge in Drums	ILW	13.5	5.4	29.4	15.3
9A78	BPS Sludge in Drums	ILW	12.7	5.1	27.6	14.4
9A80	Drummed Sludge	ILW	4.7	1.9	10.2	5.3
9A82	Ion Exchange Material in Drums	ILW	3.0	6.8	9.0	3.3
9A83	Miscellaneous Contaminated Items	ILW	0.1	0.1	0.3	0.1
9A84	Miscellaneous Contaminated Items from Post Irradiation Examination	ILW	0.1	0.1	0.3	0.2
9A85	Desiccant LLW	LLW	0.7	0.1	2.3	1.8
9A916	Empty BPS Sludge Cans	ILW	10.6	38.1	207	108
9A917	Empty Drums and Liners	ILW	8.9	32.0	174	90.6
9A920	Reactor LLW	LLW	1.6	<0.1	1.4	1.3
9A921	AETP and Decontamination LLW	LLW	24.5	0.1	39.2	38.8
9A923	AETP Sludge and Associated Arisings	LLW	4.0	1.7	22.6	16.2
9A927	Vault Scabbling Wastes	LLW	0	0	42.2	42.2
9A930	Active Waste Vault Retrieval Decommissioning.	LLW	0	2.7	53.1	42.5
9A932	Cooling Water Valve Chamber Sludge	LLW	0.2	0.1	1.6	1.2
9A933	Concrete Slurry	LLW	0.1	0.1	0.8	0.6
9A934	Storm Drains Sludge	LLW	0	<0.1	0.4	0.3
9A935	Low Level Waste Complex Decommissioning	LLW	0	<0.1	1.4	1.3
9A936	Access Control Building Decommissioning	LLW	0	<0.1	0.5	0.5
9A980	Caesium Removal Plant Decommissioning.	LLW	32.9	11.2	176	133
9A105	Reactor LLW	LLW	0	3.2	62.4	49.9
9A310	Stainless Steel (Reactor) ILW	ILW	0	4.2	85.0	60.7
9A311	Mild Steel (Reactor) ILW	ILW	0	16.7	334	315
9A312	Miscellaneous Metal (Reactor) ILW	ILW	0	7.5	150	60.7
9A313	Stainless Steel (Reactor) LLW	LLW	0	0	0	0
9A314	Mild Steel (Reactor) LLW	LLW	0	13.0	261	246
9A315	Mild Steel (Non-Reactor) LLW	LLW	0	29.9	599	564
9A316	Graphite LLW	LLW	0	2.0	40.8	38.4
9A317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,610	32,300	30,400
9A318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	107	2,140	2,010
9A319	Secondary Wastes LLW	LLW	0	68.9	1,380	1,300
9A320	Contaminated Soil LLW	LLW	0	9.9	198	186
9A321	Graphite ILW	ILW	0	193	3,860	3,640
9A322	Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Bradwell						
9B02	Ion Exchange Material	ILW	21.5	48.8	64.4	23.9
9B13	Desiccant	ILW	0.4	0.1	1.3	1.0
9B13/C	Desiccant	ILW	11.0	1.8	35.8	28.6
9B15	Sludge	ILW	14.6	17.8	23.4	8.7
9B17	Miscellaneous Contaminated Items	ILW	9.8	3.9	21.3	11.1
9B18/C	Miscellaneous Contaminated Items	ILW	2.0	1.0	4.4	2.3
9B19	FED Magnox	ILW	57.8	0	0	0
9B20	FED Magnox	LLW	29.4	0	0	0
9B21	FED Magnox	ILW	50.2	0	0	0
9B22	FED Magnox	ILW	48.1	0	0	0
9B23	FED Magnox	ILW	45.9	0	0	0
9B24	FED Magnox	ILW	40.6	0	0	0

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9B25	FED Magnox	ILW	38.5	0	0	0
9B26	FED Magnox	ILW	40.6	0	0	0
9B28	Miscellaneous Activated Components - R1	ILW	81.0	6.6	132	94.6
9B29	Miscellaneous Activated Components - R2	ILW	81.0	6.6	132	94.6
9B30	Miscellaneous Activated Components - R1	ILW	3.2	0.3	5.2	3.7
9B31	Miscellaneous Activated Components - R2	ILW	3.2	0.3	5.2	3.7
9B33	Contaminated Gravel	ILW	2.0	0.8	4.4	2.3
9B34	Contaminated Gravel	LLW	2.8	0.4	7.6	6.1
9B35	Contaminated Gravel	ILW	2.8	1.1	6.0	3.1
9B36	Contaminated Gravel	ILW	2.9	1.2	6.3	3.3
9B37	Contaminated Gravel	ILW	2.8	1.1	6.0	3.1
9B38	Contaminated Gravel	LLW	1.6	0.1	2.0	1.6
9B39	Contaminated Gravel	LLW	1.6	0.1	2.0	1.6
9B40	Contaminated Gravel	ILW	1.1	0.4	2.4	1.2
9B41	Contaminated Gravel	ILW	1.1	0.4	2.4	1.2
9B42	Contaminated Gravel	ILW	1.1	0.4	2.4	1.2
9B43	Contaminated Soil	LLW	0	22.4	438	350
9B48	Asbestos LLW	LLW	60.0	0.4	55.8	54.2
9B53	Pond Fuel Skips ILW	ILW	3.0	1.2	6.5	3.4
9B54	Contaminated Oil Soaks	LLW	0	0	0	0
9B55	Ponds Decontamination Sludge	ILW	7.1	7.2	9.5	3.5
9B56	FED Magnox	ILW	29.7	0	0	0
9B57	FED Magnox	ILW	38.1	0	0	0
9B58	FED Magnox	ILW	42.4	0	0	0
9B59	FED Magnox	ILW	10.6	0	0	0
9B60	Contaminated Gravel	ILW	2.8	1.1	6.0	3.1
9B61	Contaminated Gravel	ILW	2.8	1.1	6.0	3.1
9B62	Contaminated Gravel	ILW	2.8	1.1	6.1	3.2
9B63	Contaminated Gravel	ILW	2.8	1.1	6.1	3.2
9B64	Ion Exchange Resin PWTP	ILW	2.7	12.2	16.2	6.0
9B65	Sand and Gravel in Sand Pressure Filters - PWTP & AETP	ILW	1.2	2.6	14.4	7.5
9B66	FED Magnox Dust/Sludge	ILW	8.3	0	0	0
9B67	FED Magnox Dust/Sludge	LLW	4.0	0	0	0
9B68	FED Magnox Dust/sludge	ILW	6.6	0	0	0
9B69	FED Magnox Dust/Sludge	ILW	6.9	0	0	0
9B70	FED Magnox Dust/Sludge	ILW	6.6	0	0	0
9B71	FED Magnox Dust/Sludge	ILW	5.8	0	0	0
9B72	FED Magnox Dust/Sludge	ILW	5.5	0	0	0
9B73	FED Magnox Dust/Sludge	ILW	5.8	0	0	0
9B74	FED Magnox Dust/Sludge	ILW	4.2	0	0	0
9B75	FED Magnox Dust/Sludge	ILW	5.4	0	0	0
9B76	FED Magnox Dust/Sludge	ILW	6.1	0	0	0
9B77	FED Magnox Dust/Sludge	ILW	1.5	0	0	0
9B79	FED Magnox - Solid Secondary Waste	ILW	0	3.4	4.4	0.6
9B80	FED Magnox - Secondary Filters	ILW	0	5.5	7.3	2.7
9B81	FED Magnox - Secondary Ion Exchange Resin	ILW	0	3.4	4.5	1.7
9B82	FED Magnox - Secondary Sludge	ILW	0	15.7	20.7	6.3
9B83	Graphite Filter Dust Pots	ILW	7.0	17.1	22.6	8.4
9B84	FED Magnox - Secondary Granular Activated Carbon (GAC)	ILW	0	5.1	6.7	2.5
9B910	Reactor LLW	LLW	0	7.3	142	114
9B914	Miscellaneous Contaminated Items PWTP & AETP decommissioning	ILW	0	75.4	410	213
9B915	Miscellaneous Activated Components	LLW	0	0	0	0
9B918	Low Level Waste Facility Decommissioning	LLW	0	11.4	223	178

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9B919	ILW Retrieval and processing Facility Decommissioning	LLW	0	12.7	248	198
9B921	VLLW Contaminated Soil	VLLW	0	0	640	640
9B922	Primary Active Drains Pipework	LLW	0	6.9	135	108
9B923	Active Waste Compound LLW	LLW	50.0	1.4	27.6	22.1
9B951	Ponds LLW	LLW	6.2	2.6	326	315
9B960	Redundant Sealed Sources	LLW	0.1	<0.1	0.9	0.8
9B105	Reactor LLW	LLW	0	4.7	92.3	73.8
9B310	Stainless Steel (Reactor) ILW	ILW	0	17.9	358	195
9B311	Mild Steel (Reactor) ILW	ILW	0	25.4	509	481
9B312	Graphite ILW	ILW	0	187	3,740	3,530
9B313	Miscellaneous Metal (Reactor) ILW	ILW	0	0.6	11.4	8.2
9B314	Mild Steel (Reactor) LLW	LLW	0	4.9	98.9	93.2
9B315	Mild Steel (Non-Reactor) LLW	LLW	0	210	4,210	3,970
9B316	Graphite LLW	LLW	0	13.3	266	250
9B317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,870	37,400	35,200
9B318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	38.6	774	729
9B319	Secondary Wastes LLW	LLW	0	64.1	1,280	1,210
9B320	Stainless Steel (Reactor) LLW	LLW	0	<0.1	0.2	0.2
9B321	Contaminated Soil LLW	LLW	0	130	2,610	2,460
9B322	Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Dungeness A						
9C02	PWTP Ion Exchange Material	ILW	28.9	65.5	86.5	32.1
9C11	Reactor and Boiler Systems LLW	LLW	53.8	3.3	64.1	51.3
9C12	Effluent Treatment Plant, Ponds and Decontamination LLW	LLW	21.4	0.9	19.8	16.4
9C13	Magnox Dissolution Plant LLW	LLW	44.2	3.1	68.3	56.1
9C14	Desiccant	ILW	6.3	1.6	30.5	24.4
9C15	Incinerator Ash	LLW	1.2	0.1	1.0	0.8
9C16	PWTP Sludge	ILW	3.3	4.5	24.5	12.7
9C17	Magnox Dissolution Plant Sludge	ILW	8.1	3.2	17.6	9.2
9C30	Miscellaneous Activated Components	ILW	52.0	3.2	64.3	60.7
9C32	Miscellaneous Activated Components	ILW	8.4	0.5	10.4	9.8
9C33	Miscellaneous Activated Components	ILW	58.0	3.6	71.7	67.7
9C35	Miscellaneous Activated Components	ILW	6.2	0.4	7.7	7.3
9C36	Ion Exchange Resin from Ponds	ILW	28.7	78.5	104	38.4
9C38	Ion Siv Unit Pre Filters	ILW	1.6	4.3	5.7	2.1
9C39	Ion Siv Unit Cartridges	ILW	0.5	15.3	20.2	5.7
9C40	Ion Siv Unit Post Filters	ILW	0.7	2.5	3.3	1.0
9C41	Ion Siv Unit Pre Filters	ILW	1.1	3.4	4.5	1.7
9C42	Ion Siv Unit Cartridges	ILW	0.4	13.2	17.4	4.9
9C43	Ion Siv Unit Post Filters	ILW	0.8	2.8	3.6	1.1
9C44	Fuel Skips in Pond	ILW	58.6	10.0	195	156
9C45	Fuel Skips in Pond	ILW	48.2	8.8	172	137
9C47	Nimonic Springs and Thermocouples	ILW	0.1	0.3	0.4	0.1
9C48	Pond Skip Decontamination Sludge	ILW	0	0.7	3.9	2.0
9C49	Pond Skip Decontamination Sludge	ILW	0	0.6	3.3	1.7
9C51	Contaminated Zinc Bromide	LLW	0.5	1.3	26.6	21.5
9C52	Contaminated Sand	LLW	1.9	0.4	9.0	7.2
9C53	Miscellaneous Contaminated Items	ILW	4.0	1.6	8.7	4.5
9C54	Catalyst	ILW	1.5	0.9	5.0	2.6
9C55	Doulton Filters	LLW	6.4	0.8	15.9	12.7
9C56	Miscellaneous Activated Components	ILW	9.8	0.6	12.1	11.4
9C57	Miscellaneous Activated Components	ILW	8.3	0.5	10.3	9.7

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9C58	Cationic Resin - AEWTP	LLW	0	1.3	25.0	20.0
9C59	Anionic Resin - AEWTP	LLW	0	0.5	10.0	8.0
9C61	Contaminated Sand from AETP and PWTP Sand Filters	LLW	0	0	6.0	6.0
9C62	Contaminated Gravel from AETP and PWTP Sand Filter	LLW	0	0	6.0	6.0
9C63	AETP Sludge	ILW	2.7	3.7	47.7	34.1
9C911	Reactor and Boiler Systems LLW	LLW	0	0	449	449
9C912	Effluent Treatment Plant, Ponds and Decontamination LLW	LLW	0	0	351	351
9C913	DAMAL	LLW	0	2.7	53.1	42.5
9C914	Scaffolding	LLW	0	6.7	130	104
9C915	LLAW Plant	LLW	0	12.6	245	196
9C944	Contaminated Insulation	LLW	0	1.2	64.9	60.0
9C945	Pond Scabblings	LLW	0	14.5	300	243
9C950	Redundant Sealed Sources	LLW	0	0.1	2.5	2.0
9C105	Reactor and Boiler Systems LLW	LLW	0	4.5	88.4	70.7
9C310	Stainless Steel (Reactor) ILW	ILW	0	8.8	177	167
9C311	Mild Steel (Reactor) ILW	ILW	0	29.4	590	557
9C312	Graphite ILW	ILW	0	211	4,230	3,990
9C313	Stainless Steel (Reactor) LLW	LLW	0	0	0	0
9C314	Mild Steel (Reactor) LLW	LLW	0	28.2	565	532
9C315	Mild Steel (Non-Reactor) LLW	LLW	0	223	4,460	4,200
9C317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,460	29,200	27,500
9C318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	47.0	942	888
9C319	Secondary Wastes LLW	LLW	0	62.9	1,260	1,190
9C320	Miscellaneous Metals (Reactor) ILW	ILW	0	<0.1	0.1	0.1
9C321	Contaminated Soil LLW	LLW	0	57.4	1,150	1,080
9C322	Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Hinkley Point A						
9D11	Incinerator Ash	LLW	2.5	0.1	1.6	1.3
9D15/C	PWTP Fine Filters (Conditioned)	LLW	5.8	0.8	15.6	12.5
9D17	PWTP Fine Filters (ILW)	ILW	14.3	14.5	79.0	41.1
9D18	Desiccant	ILW	2.4	1.1	21.5	17.2
9D22	Sludge	ILW	20.7	8.3	45.0	23.4
9D23	Sludge	ILW	10.0	29.2	38.6	14.3
9D24	Sludge	ILW	17.5	7.8	42.2	21.9
9D25	Ion Exchange Material	ILW	44.0	99.8	132	48.9
9D26	Ion Exchange Material	ILW	15.0	34.0	44.8	16.6
9D27	Ion Exchange Material	ILW	27.0	74.4	98.3	30.1
9D28	Ion Exchange Material	ILW	32.0	88.0	116	35.6
9D29	Ion Exchange Material	ILW	20.7	63.1	83.3	25.5
9D30	Miscellaneous Contaminated Items	ILW	1.3	0.5	2.9	1.5
9D32	Contaminated Sand	ILW	1.0	0.4	2.2	1.1
9D33	FED Magnox R1	ILW	207.0	0	0	0
9D34	FED Magnox R2	ILW	218.0	0	0	0
9D35	Miscellaneous Activated Components R1	ILW	68.0	5.6	111	79.4
9D36	Miscellaneous Activated Components R2	ILW	68.0	5.6	111	79.4
9D37	Miscellaneous Activated Components R1	ILW	2.1	0.2	3.4	2.5
9D38	Miscellaneous Activated Components R2	ILW	2.1	0.2	3.4	2.5
9D39	FED Nimonic R1	ILW	0.4	2.0	2.6	0.4
9D40	FED Nimonic R2	ILW	0.4	2.1	2.7	0.5
9D41	FED Magnox - R1	ILW	165.0	0	0	0
9D42	FED Magnox - R2	ILW	155.0	0	0	0
9D43	FED Nimonic - R1	ILW	0.1	0.5	0.7	0.1

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Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9D44	FED Nimonic - R2	ILW	0.1	0.5	0.7	0.1
9D45	Contaminated Gravel	ILW	10.0	4.0	21.8	11.3
9D46	Contaminated Gravel	ILW	10.0	4.0	21.8	11.3
9D47	Contaminated Sand	ILW	6.8	15.4	20.4	7.6
9D48	Miscellaneous Contaminated Items	LLW	6.7	0.6	11.9	9.5
9D49	Ion Siv Unit Pre Filters	ILW	2.2	3.0	16.1	8.4
9D50	Ion Siv Unit Cartridges	ILW	0.3	3.0	3.9	1.1
9D51	Ion Siv Unit Post Filters	ILW	0.4	0.5	2.7	1.4
9D52	Miscellaneous Activated Components from R1 Pond	ILW	6.0	16.5	21.8	6.7
9D53	VLLW Asbestos and MMMF	VLLW	45.0	0	45.0	45.0
9D54	Miscellaneous Activated Components from R2 pond	ILW	7.0	19.3	25.5	7.8
9D60	Sand in Sand Pressure Filters - PWTP	ILW	0	7.7	41.8	21.7
9D64	Contaminated Gravel	ILW	11.8	4.7	25.7	13.4
9D65	Ion Exchange Material	ILW	3.4	7.7	10.2	3.8
9D66	Contaminated Gravel	ILW	2.2	0.9	4.8	2.5
9D67	FED Sludge - R1	ILW	5.0	0	0	0
9D68	FED Sludge - R2	ILW	5.0	0	0	0
9D69	FED Sludge - R1	ILW	10.0	0	0	0
9D70	FED Sludge - R2	ILW	10.0	0	0	0
9D71	Ion Exchange Material	LLW	0	4.6	89.4	71.5
9D72	Sludge/resin from operational clean-up	ILW	3.1	7.0	9.3	3.4
9D73	Miscellaneous Activated Components R1	ILW	30.0	2.4	49.0	35.0
9D74	Miscellaneous Activated Components - R2	ILW	30.0	2.4	49.0	35.0
9D75	Vacuum Debris	LLW	0.8	0.1	1.0	0.8
9D76	AETP Sludge LLW	LLW	0	0.4	7.1	5.7
9D77	Desiccant (LLW)	LLW	2.5	0.2	3.3	2.6
9D78	IonSiv Unit Pre Filters (LLW)	LLW	9.6	1.5	29.6	23.6
9D79	IonSiv Unit Post Filters (LLW)	LLW	4.3	0.7	13.2	10.6
9D80	MCI Metallic, contaminated metal from Pond operations	ILW	4.7	1.9	10.2	5.3
9D81	MCI Concrete, contaminated concrete blocks from Pond operations	ILW	1.2	0.5	2.7	1.4
9D82	Vacuum Debris (ILW)	ILW	1.5	0.6	3.3	1.7
9D83	Incinerator Ash (ILW)	ILW	0.8	0.3	1.6	0.8
9D84	Skip Store Skip Coating	ILW	0.8	0.3	1.7	0.9
9D85	FED Dissolution Secondary Waste (Ion Exchange Resin)	ILW	0	3.1	16.9	8.8
9D86	FED Dissolution Secondary Waste (Sludge)	ILW	0	21.3	28.2	8.6
9D87	FED Dissolution Secondary Waste (Filters)	ILW	0	3.1	16.9	8.8
9D912	Soft Laundry Waste	LLW	1.7	0.1	2.1	1.7
9D913	Pond & Effluent Treatment Plant LLW	LLW	0	22.3	473	386
9D914	General Reactor LLW	LLW	0	25.6	525	425
9D916	C&M Preps LLW Buildings	LLW	0	4.5	95.4	77.8
9D917	Sludge/Resin from Post Operational Clean Out	ILW	0	1.4	1.9	0.7
9D918	Ponds and Magnox Vault Wall Scabblings	LLW	0	2.8	54.9	43.9
9D919	Settling Tank Bitumen Linings	ILW	0	5.1	6.7	2.5
9D920	Miscellaneous Decommissioning ILW from Plant Items.	ILW	0	4.0	21.8	11.3
9D921	Sludge Canning Building Plant Items	ILW	0	0.8	4.4	2.3
9D922	Sludge Canning Building Decommissioning LLW	LLW	0	4.5	91.0	73.5
9D923	Redundant Sealed Sources	LLW	0.4	0.1	2.7	2.1
9D924	Contaminated Soil LLW	LLW	0	25.0	487	390
9D106	General Reactor LLW	LLW	0	5.2	101	81.1
9D310	Stainless Steel (Reactor) ILW	ILW	0	3.8	75.4	71.2
9D311	Mild Steel (Reactor) ILW	ILW	0	23.7	475	448
9D312	Graphite ILW	ILW	0	219	4,390	4,150
9D313	Miscellaneous Metal (Reactor) ILW	ILW	0	1.3	25.7	14.0

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9D314	Mild Steel (Reactor) LLW	LLW	0	56.4	1,130	1,060
9D315	Mild Steel (Non-Reactor) LLW	LLW	0	283	5,660	5,330
9D316	Graphite LLW	LLW	0	2.9	58.1	54.8
9D317	Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,670	33,400	31,500
9D318	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	85.2	1,710	1,610
9D319	Secondary Wastes LLW	LLW	0	64.1	1,280	1,210
9D320	Stainless Steel (Reactor) LLW	LLW	0	<0.1	0.1	0.1
9D321	Contaminated Soil LLW	LLW	0	43.8	878	827
9D322	Reactor Neutron Sources R1	ILW	0	<0.1	0.6	0.6
9D323	Reactor Neutron Sources R2	ILW	0	<0.1	0.6	0.6
9D324	Debris in Debris Removal Ducts R1	ILW	0	0.1	1.2	1.2
9D325	Debris in Debris Removal Ducts R2	ILW	0	0.1	1.2	1.2
9D326	Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Oldbury						
9E01	Sludge	ILW	13.5	10.4	56.4	29.3
9E13	AETP LLW	LLW	2.8	0.9	17.7	14.1
9E14	Ponds and Other Wet Fuel Routes LLW	LLW	4.1	1.4	26.4	21.1
9E17	Sludge	ILW	8.9	9.6	52.0	27.1
9E20	Ion Exchange Material	ILW	14.2	8.2	44.4	23.1
9E22	Miscellaneous Contaminated Items	ILW	5.0	2.6	14.1	7.4
9E23	Miscellaneous Contaminated Items	ILW	10.7	5.5	29.8	15.5
9E24	FED Magnox	ILW	81.4	30.7	101	81.4
9E25	FED Magnox	ILW	81.4	30.7	101	81.4
9E26	FED Magnox	ILW	85.3	32.2	105	85.3
9E27	FED Magnox	ILW	85.3	32.2	105	85.3
9E28	FED Magnox	ILW	49.9	32.0	105	84.9
9E31	Miscellaneous Activated Components	ILW	52.9	3.5	69.1	65.2
9E32	Miscellaneous Activated Components	ILW	69.8	4.3	86.7	81.8
9E39	Miscellaneous Activated Components	ILW	1.1	0.1	1.7	1.6
9E40	FED Nimonic	ILW	0.1	0.4	0.5	0.1
9E41	FED Nimonic	ILW	0.2	0.8	1.0	0.2
9E43	FED Nimonic	ILW	0.1	0.4	0.5	0.1
9E45	Sludge	ILW	15.6	6.2	33.9	17.7
9E47	Desiccant	ILW	6.2	1.0	20.2	16.1
9E49	Contaminated Gravel	ILW	4.0	1.6	8.7	4.5
9E50	Contaminated Gravel	ILW	4.0	1.6	8.7	4.5
9E54	Contaminated Oil	LLW	4.1	0	0	0
9E55	Ion Siv Unit Pre Filters	ILW	2.2	25.0	33.0	12.3
9E56	Ion Siv Unit Cartridges	ILW	0.3	4.5	6.0	2.2
9E57	Ion Siv Unit Post Filters	ILW	2.1	23.9	31.5	9.6
9E58	Dry Fuel Route (excl BCD) LLW	LLW	16.9	1.6	32.0	25.6
9E59	BCD LLW	LLW	0	0.7	13.0	10.4
9E60	Active Waste Store, Active Laundry LLW	LLW	2.4	0.6	11.6	9.3
9E61	Fuel Skips in Pond	ILW	0	0	0	0
9E62	Pond Skip Decontamination Sludge	ILW	0	1.6	8.5	4.4
9E63	Redundant Sources	LLW	<0.1	<0.1	<0.1	<0.1
9E64	FED Secondary Arisings - Sludge	ILW	0	33.9	44.7	13.7
9E65	FED Secondary Arisings - Ion Exchange	ILW	0	1.0	5.4	2.8
9E66	FED Secondary Arisings - Filters	ILW	0	1.0	5.4	2.8
9E67	Pond Wall Paint and Concrete Fines from Water Jetting	ILW	0	5.6	30.5	15.8
9E913	Care & Maintenance Preparation : AETP LLW	LLW	0	28.4	553	442
9E914	Care & Maintenance Preparation : Ponds and Other Wet Fuel Routes LLW	LLW	0	9.0	176	141

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9E958	Care & Maintenance Preparation : Dry Fuel Route (excluding BCD) LLW	LLW	0	121	2,370	1,890
9E959	Care & Maintenance Preparation : BCD LLW	LLW	0	4.5	87.6	70.1
9E960	Care & Maintenance Preparation : Active Waste Store, Active Laundry LLW	LLW	0	8.8	171	137
9E104	Care & Maintenance : Dry Fuel Route LLW	LLW	0	4.6	89.7	71.8
9E310	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	8.7	173	94.3
9E311	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	30.2	605	571
9E312	Final Dismantling & Site Clearance : Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
9E313	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	16.4	329	310
9E315	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	117	2,340	2,200
9E316	Final Dismantling & Site Clearance : Concrete (Reactor and Non-Reactor) LLW	LLW	0	3,580	71,700	67,600
9E317	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	6.1	122	115
9E318	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	74.4	1,490	1,410
9E319	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	204	4,080	3,850
9E320	Final Dismantling & Site Clearance : Miscellaneous Metals (Reactor) ILW	ILW	0	<0.1	0.1	0.1
9E321	Final Dismantling & Site Clearance : Contaminated Soil LLW	LLW	0	61.7	1,240	1,170
9E322	Final Dismantling & Site Clearance : Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Sizewell A						
9F02	Ion Exchange Material	LLW	2.0	0.8	16.3	13.0
9F10	Reactor Area LLW	LLW	9.2	1.8	35.3	28.3
9F11	Ponds and Effluent Treatment Plant LLW	LLW	18.4	4.0	78.7	62.9
9F13	Incinerator Ash and Other Debris	LLW	0.3	0.1	2.2	1.8
9F14	Desiccant and Catalyst from Gas Conditioning Plant	ILW	9.9	0.3	6.7	5.4
9F17	Sludge	LLW	12.1	6.0	116	92.9
9F18	Miscellaneous Drummed Contaminated and Activated Items	ILW	90.0	5.6	111	105
9F19	Miscellaneous Drummed Contaminated and Activated Items	LLW	48.0	0	0	0
9F20	FED Magnox	ILW	122.0	0	0	0
9F21	FED Magnox	ILW	144.2	0	0	0
9F22	FED Magnox	ILW	19.8	0	0	0
9F25	Miscellaneous Activated Components	ILW	145.0	9.0	181	171
9F26	Miscellaneous Activated Components - R1	ILW	142.0	8.8	176	166
9F27	Miscellaneous Activated Components - R2	ILW	113.0	7.0	140	132
9F28	Shield Cooling Air Filters - R1	LLW	12.7	0.8	15.7	14.8
9F29	Shield Cooling Air Filters - R2	LLW	15.6	1.0	19.3	18.2
9F30	Filtered Waste Oil	LLW	4.8	0	0	0
9F31	Ion Siv Unit Filters	LLW	3.6	0.6	12.6	10.1
9F32	Ion Siv Unit Cartridges	ILW	0.3	3.3	4.4	1.6
9F33	Ion Siv Unit Filters	ILW	1.8	0.8	4.2	2.2
9F37	Sludge	ILW	0	4.4	23.9	12.5
9F38	PWTP Filters - Sand and Gravel	ILW	0	3.8	20.5	10.7
9F39	Fuel Skips in Pond	ILW	68.4	0	0	0
9F42	AETP Filters - Sand and Gravel	ILW	2.0	1.2	24.0	19.2
9F43	FED Nimonic	ILW	<0.1	0.1	0.1	<0.1
9F44	Pond Sludge	ILW	4.1	1.6	8.9	4.6
9F910	Reactor Area LLW	LLW	0	85.7	1,670	1,340
9F911	Ponds and Effluent Treatment Plant LLW	LLW	0	63.7	1,240	993

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9F912	Deplanting Active Laundry	LLW	10.0	0.4	8.6	6.9
9F913	VLLW Reactor Area Lagging	VLLW	0	0	950	950
9F914	Magnox FED Dissolution Sludge	ILW	0	8.0	10.5	3.2
9F915	FED Dissolution Filtration Media	ILW	0	1.2	6.3	3.3
9F916	FED Dissolution Ion Exchange Media	ILW	0	1.2	6.3	3.3
9F950	Redundant Sealed Sources	LLW	0	<0.1	0.6	0.5
9F105	Care & Maintenance LLW	LLW	0	4.3	84.5	67.6
9F310	Stainless Steel (Reactor) ILW	ILW	0	1.2	23.5	22.2
9F311	Mild Steel (Reactor) ILW	ILW	0	24.6	492	464
9F312	Graphite ILW	ILW	0	223	4,460	4,210
9F313	Miscellaneous Metal (Reactor) ILW	ILW	0	0.3	5.1	2.8
9F314	Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
9F315	Mild Steel (Reactor) LLW	LLW	0	35.1	703	663
9F316	Mild Steel (Non-Reactor) LLW	LLW	0	171	3,430	3,230
9F318	Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,450	29,100	27,400
9F319	Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	85.5	1,710	1,610
9F320	Secondary Wastes LLW	LLW	0	64.4	1,290	1,220
9F321	Contaminated Soil LLW	LLW	0	19.0	381	359
9F322	Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Trawsfynydd						
9G04/C	Ion Exchange Material Conditioned Waste	ILW	300.0	65.9	1,320	719
9G14	Desiccant	ILW	18.4	11.5	37.6	31.1
9G15	FED Drummed Magnox	ILW	38.1	18.0	64.8	48.5
9G16/C	Sludge - Conditioned Material	ILW	67.2	28.0	73.1	67.2
9G17	Sludge	ILW	4.8	4.1	10.6	9.8
9G18/C	Ion Exchange Material - Conditioned Waste	ILW	656.0	144	2,880	1,570
9G19	Ion Exchange Material	ILW	2.1	1.5	30.9	16.8
9G19/C	Ion Exchange Material - Conditioned Waste	ILW	215.0	48.3	968	527
9G20/C	Ion Exchange Material - Conditioned Waste	ILW	187.7	42.0	841	458
9G34	FED Magnox	ILW	118.3	38.8	127	105
9G34/C	FED Magnox	ILW	33.7	13.0	40.9	33.7
9G35	FED Magnox	ILW	176.0	57.7	189	156
9G36/C	Conditioned Miscellaneous Activated Components	ILW	43.2	16.0	52.4	43.2
9G37/C	Conditioned Miscellaneous Activated Components	ILW	43.2	16.0	52.4	43.2
9G38	Miscellaneous Activated Components	ILW	21.0	1.3	26.0	24.5
9G39	Miscellaneous Activated Components	ILW	21.0	1.3	26.0	24.5
9G40	FED Nimonic	ILW	0.2	0.1	0.2	0.2
9G41	FED Nimonic	ILW	0.3	0.1	0.3	0.3
9G48/C	Encapsulated Skips and Debris from Fuel Cooling Pond	ILW	8.1	3.0	9.8	8.1
9G55	Oil	ILW	0.4	0.9	0.5	0.4
9G64	Miscellaneous Contaminated Items	ILW	6.7	14.3	8.2	6.7
9G66	Miscellaneous Contaminated Items	LLW	2.0	0.1	2.4	2.0
9G69	Miscellaneous Contaminated Items - Debris from Fuel Cooling Ponds	ILW	0.7	0.2	0.8	0.7
9G71	Diversion Culvert Silt	LLW	40.8	0	72.8	72.8
9G72	Ponds - Acceptance Bays Gravel & Sand from North and South Acceptance Bays - Gravel	ILW	2.6	4.5	14.7	12.1
9G73	Wet / Mobile Orphan Waste	ILW	1.0	0.8	2.2	2.0
9G74	Wet / Mobile Orphan Waste	LLW	2.0	0.1	2.4	2.0
9G75	Sludge - RV3	ILW	2.5	2.1	5.5	5.1
9G76	Concrete from Base of Magnox Debris South Vault	ILW	0	3.6	11.6	9.6
9G77	Concrete from Base of Magnox Debris North Vault	ILW	0	3.6	11.6	9.6
9G78	MSV and RV1 WRATS	ILW	10.2	8.5	22.3	20.5
9G104	Care & Maintenance Preparation : Resin Vaults LLW	LLW	0	1.2	32.4	27.6

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9G105	Care & Maintenance Preparation : Reactor LLW	LLW	6.0	6.1	173	149
9G106	Care & Maintenance Preparation : Ponds LLW	LLW	9.0	12.1	492	444
9G107	Care and Maintenance Preparation : Ion Exchange Material	ILW	30.7	21.9	439	239
9G109	Care & Maintenance Preparation : Pond Scabbling Wastes	LLW	0	7.6	160	130
9G110	Care & Maintenance : Reactor LLW	LLW	0	3.9	75.4	60.3
9G113	CDVAR Plates	ILW	0.2	1.0	19.5	15.6
9G114	Care & Maintenance Preparation: Reactor VLLW	VLLW	0	0	13.0	13.0
9G115	Asbestos Stripped from Primary Cooling Circuit	LLW	28.0	19.2	375	300
9G309	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	5.5	111	60.5
9G310	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	71.5	1,430	1,350
9G311	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	212	4,240	4,000
9G312	Final Dismantling & Site Clearance : Miscellaneous Metal (Reactor) ILW	ILW	0	1.1	22.2	12.1
9G313	Final Dismantling & Site Clearance : Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
9G314	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	82.0	1,640	1,550
9G315	Final Dismantling & Site Clearance : Mild Steel (Non-Reactor) LLW	LLW	0	215	4,300	4,050
9G316	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	3.0	59.3	55.9
9G317	Final Dismantling & Site Clearance : Concrete (Reactor and Non-Reactor) LLW	LLW	0	2,140	42,800	40,400
9G318	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	47.3	947	892
9G319	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	67.4	1,350	1,270
9G320	Final Dismantling & Site Clearance : Contaminated Soil LLW	LLW	0	198	3,960	3,730
9G321	Final Dismantling & Site Clearance : Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Wylfa						
9H02	Desiccant	ILW	19.0	3.7	71.5	57.2
9H11	Pile Cap, Dry Fuel Store and Associated Areas LLW	LLW	45.0	1.4	38.4	33.0
9H12	Flask Handling Area, AETP and Laundry LLW	LLW	20.0	0.7	18.6	16.0
9H13	Incinerator Ash LLW	LLW	5.0	0.4	8.1	6.5
9H14	Auxiliary Gas Systems LLW	LLW	12.0	0	0	0
9H15	Sludge	LLW	20.0	1.8	34.4	27.5
9H16	Sludge	LLW	4.6	0.4	7.6	6.1
9H17	Sludge	LLW	4.6	0.4	7.6	6.1
9H18	Miscellaneous Activated Components	ILW	259.0	16.5	331	313
9H19	Miscellaneous Activated Components	ILW	259.0	16.5	331	313
9H20	Miscellaneous Activated Components	ILW	288.6	18.5	370	349
9H21	Contaminated Waste Oil	LLW	20.0	0	0	0
9H24	Burst Can Detector Coolers	ILW	2.0	1.8	9.8	5.1
9H25	Type H Cleaner Bags	ILW	2.2	1.1	6.1	3.2
9H26	Dry Store Cell 4 Corrosion Debris	ILW	0.5	0.2	1.1	0.6
9H27	Auxiliary Gas Systems	ILW	12.0	8.4	45.7	23.8
9H28	Redundant Sealed Sources	LLW	0.1	<0.1	0.1	0.1
9H29	Dry Store Cell 4 Residue	LLW	5.8	<0.1	0.3	0.2
9H30	Asbestos and MMMF (Man Made Mineral Fibre) LLW	VLLW	0.8	0	26.8	26.8
9H32	Water/Sludge Active Incinerator Effluent Tanks	LLW	60.0	3.8	75.0	60.0
9H911	Care & Maintenance Preparation : Pile Cap, Dry Fuel Store and Associated Areas LLW	LLW	0	0.9	71.2	67.9
9H912	Care & Maintenance Preparation : Flask Handling Area and AETP LLW	LLW	0	0.6	28.8	26.6

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9H914	Care & Maintenance Preparation : Auxiliary Gas Systems LLW	LLW	0	0	0	0
9H928	Auxiliary Gas Systems	ILW	0	0.4	2.4	1.2
9H929	Incinerator Building - LLW	LLW	0	10.2	199	160
9H930	Dry Store Cell 4	LLW	0	2.0	57.5	49.6
9H931	Dry Store Cell 4 Skip debris	ILW	0	8.4	45.5	23.7
9H104	Care & Maintenance LLW	LLW	0	4.8	93.6	74.9
9H309	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	6.1	122	87.2
9H310	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	22.9	459	433
9H311	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	365	7,310	6,900
9H312	Final Dismantling & Site Clearance : Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
9H313	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	3.1	63.0	59.4
9H315	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	169	3,380	3,190
9H316	Final Dismantling & Site Clearance : Concrete (Reactor and Non-Reactor) LLW	LLW	0	3,530	70,700	66,700
9H317	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	13.8	277	261
9H318	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	97.0	1,940	1,830
9H319	Final Dismantling & Site Clearance : Miscellaneous Metals (Reactor) ILW	ILW	0	2.4	47.2	25.7
9H322	Final Dismantling & Site Clearance : Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Hunterston A						
9J03	Ion Exchange Resins	ILW	11.7	6.7	17.5	16.1
9J18	FED Graphite	ILW	4.0	2.7	8.8	7.1
9J19	FED Graphite	ILW	501.3	336	1,100	892
9J20	FED Graphite	ILW	460.3	309	1,010	819
9J21	FED Graphite	ILW	447.2	300	982	795
9J22	FED Graphite	ILW	86.9	58.3	191	155
9J23	FED Magnox	ILW	563.7	192	630	510
9J24	FED Magnox	ILW	1.1	0.4	1.2	1.0
9J25	FED Magnox	ILW	0.4	0.1	0.4	0.4
9J26	Miscellaneous Contaminated Items	ILW	26.7	20.1	54.8	49.1
9J27	Miscellaneous Contaminated Items	ILW	22.5	8.7	28.3	22.9
9J28	Miscellaneous Contaminated Items	ILW	16.2	7.1	23.4	18.9
9J29	Miscellaneous Contaminated Items	ILW	17.9	10.8	35.3	28.6
9J30	Miscellaneous Contaminated Items	ILW	17.1	2.0	6.7	5.4
9J33	CCP Sludge	ILW	251.5	144	375	345
9J35	FED Fuel Channel Components	ILW	0.2	0.1	0.2	0.2
9J36	FED Fuel Channel Components	ILW	26.6	11.8	38.5	31.2
9J37	FED Fuel Channel Components	ILW	24.7	10.9	35.8	29.0
9J38	FED Fuel Channel Components	ILW	23.3	10.3	33.7	27.3
9J39	FED Fuel Channel Components	ILW	5.2	2.3	7.5	6.0
9J40	Miscellaneous Activated Components	ILW	0.8	0.2	0.8	0.6
9J41	Miscellaneous Activated Components	ILW	8.7	14.3	46.7	37.8
9J42	Miscellaneous Activated Components	ILW	0.4	0.6	2.1	1.7
9J44	Miscellaneous Activated Components	ILW	0.2	0.3	1.0	0.8
9J45	Miscellaneous Activated Components R1	ILW	0.8	<0.1	1.0	0.9
9J46	Miscellaneous Activated Components R2	ILW	0.6	<0.1	0.7	0.7
9J52	Desiccant	ILW	3.4	4.3	13.9	11.5
9J59	Ion Siv Cartridges	ILW	0	0.9	3.0	2.5
9J60	Ion Siv Unit Post Filters	ILW	0	0.9	3.0	2.5
9J61	Pond Skip Decontamination Liquor	ILW	140.0	130	338	311

Site Owner – Waste Custodian - Site		Waste type	Waste volume at 1.4.2013 (m^3)	When all wastes at 1.4.2013 and future arisings are packaged		
Stream Identifier	Title			Number of packages	Packaged volume (m^3)	Conditioned volume (m^3)
9J948	Care and Maintenance Preparation : Reactor and Auxiliary Building LLW	LLW	244.5	4.9	128	109
9J949	Care & Maintenance Preparation : Pond and Effluent Treatment Plant LLW	LLW	510.0	16.3	761	697
9J100	Care & Maintenance : General Reactor LLW	LLW	0	3.3	65.0	52.0
9J301	Final Dismantling & Site Clearance : Graphite ILW	ILW	0	212	4,250	4,010
9J302	Final Dismantling & Site Clearance : Concrete (Reactor and Non-Reactor) LLW	LLW	0	1,800	36,100	34,000
9J303	Final Dismantling & Site Clearance : Mild Steel (Reactor) ILW	ILW	0	15.2	304	287
9J306	Final Dismantling & Site Clearance : Stainless Steel (Reactor) ILW	ILW	0	4.1	82.8	78.2
9J310	Final Dismantling & Site Clearance : Stainless Steel (Reactor) Recycle LLW	LLW	0	0	0	0
9J311	Final Dismantling & Site Clearance : Mild Steel (Reactor) LLW	LLW	0	50.5	1,010	953
9J312	Final Dismantling & Site Clearance : Mild Steel (Non-Reactor) LLW	LLW	0	262	5,240	4,940
9J313	Final Dismantling & Site Clearance : Graphite LLW	LLW	0	0.4	8.3	7.8
9J314	Final Dismantling & Site Clearance : Miscellaneous Metals and Materials (Reactor and Non-Reactor) LLW	LLW	0	114	2,290	2,160
9J315	Final Dismantling & Site Clearance : Secondary Wastes LLW	LLW	0	76.2	1,530	1,440
9J316	Final Dismantling & Site Clearance : Miscellaneous Metals (Reactor) ILW	ILW	0	0.6	11.1	7.9
9J318	Final Dismantling & Site Clearance : Mild Steel (Reactor) Recycle LLW	LLW	0	0	0	0
Nuclear Decommissioning Authority - Magnox Ltd - Berkeley						
9R02	Miscellaneous ILW	ILW	11.0	24.9	32.9	12.2
9R10	ILW Ion Exchange Material	ILW	0.7	0.3	1.4	0.7
9R13	Steel Surveillance Canisters	ILW	0.4	0.2	0.9	0.5
9R14	Depleted Uranium	LLW	<0.1	<0.1	0.1	<0.1
9R15	Natural Uranium	LLW	<0.1	<0.1	0.1	<0.1
9R16	Low Enriched Uranium	LLW	<0.1	<0.1	0.1	<0.1
9R17	Irradiated Uranium	ILW	<0.1	<0.1	<0.1	<0.1
9R18	Thorium	LLW	<0.1	<0.1	0.1	<0.1
9R19	Graphite Samples	ILW	<0.1	<0.1	<0.1	<0.1
9R101	Berkeley Centre Decommissioning : Primary ILW	ILW	10.2	14.3	77.9	40.5
9R102	Berkeley Centre Decommissioning : Primary LLW	LLW	57.2	4.8	220	201
9R111	Berkeley Centre Decommissioning: LLW Ion Exchange Material	LLW	0.1	<0.1	0.5	0.4
9R112	Redundant Radioactive Sources	ILW	0.1	<0.1	0.2	0.1
9R113	Redundant Radioactive Sources	LLW	<0.1	0.2	3.0	2.3
9R115	Miscellaneous Oily Wastes (WRATs)	LLW	0.2	0.2	2.0	1.4
9R116	High Enriched Uranium	LLW	<0.1	<0.1	0.1	<0.1
9R118	Radiochemical Laboratory Samples	ILW	0.7	2.2	2.9	0.8
9R121	Encapsulated Radioactive Sources	LLW	0	<0.1	0.1	0.1
Nuclear Decommissioning Authority - Magnox Ltd - Sellafield						
9Z201	Magnox Fuel Transport Flasks	LLW	0	1.5	30.0	24.0
9Z203	Rail Flatrols	LLW	0	2.6	50.7	40.6

ANNEX 5 GLOSSARY

The glossary contains a list of specialised terms and abbreviations used in this reporting output.

<	Less than.
ADU	Ammonium Diuranate.
AETP	Active Effluent Treatment Plant (at reactor site).
AEWTP	Active Effluent Waste Treatment Plant (at reactor site).
AGR	Advanced Gas-cooled Reactor.
AW500	A proprietary zeolite used in ion exchange processes.
AWE	The Atomic Weapons Establishment. A Government owned, contractor-operated company concerned mainly with nuclear weapons technology. Located at Aldermaston, but with a smaller establishment at Burghfield.
BAESM	BAE Systems Marine Ltd.
BCD	Burst Cartridge Detection.
Becquerel	Bq; the standard international unit of measurement of radioactivity – corresponding to one disintegration per second (see also kBq, GBq and TBq).
BEP	Box Encapsulation Plant (at Sellafield).
BEPO	British Experimental Pile O. Air-cooled graphite-moderated pile (at Harwell site; shut down in 1968).
BEPPS	Box Encapsulation Plant Product Store (at Sellafield).
Beta/gamma activity	Radioactivity associated with the emission of beta particles and/or gamma radiation.
Beta particle	An electron or positron emitted from the nucleus of a decaying atom.
BPS	Berkeley Power Station.
BTC	British Technology Centre (at Sellafield).
C & M	Care and Maintenance.
Capping material	Cement or other substance forming inactive cover over conditioned waste in a container.
CCP	Cartridge Cooling Pond.
CEGB	Central Electricity Generating Board.
CHILW	Contact Handled Intermediate Level Waste.
Clifton Marsh	Landfill site (near Preston).
Conditioned volume	The volume of waste after conditioning, consisting of the waste material and encapsulating matrix.
Conditioned waste	Radioactive waste that has undergone *conditioning*.
Conditioning	The process used to prepare waste for long-term storage and/or disposal by converting it into a solid and stable form, e.g. by

	encapsulation in cement.
Conditioning matrix	The material used to contain and/or stabilise waste for disposal. This may be cement, glass or polymer.
Controlled burial	The authorised disposal of some LLW, arising principally in the non-nuclear sector, at suitable landfill sites that possess good containment characteristics.
Crud	Any deposits of impurity or corrosion product within a reactor, storage vessel or chemical plant.
CVCS	Chemical Volume and Control System (PWR station).
CXPP	Chapelcross Process Plant.
DCP	Dounreay Cementation Plant.
DECC	Department of Energy and Climate Change. The UK Government department responsible for all aspects of UK energy policy and for tackling global climate change on behalf of the UK.
Decommissioning waste	Wastes arising after the shutdown of a facility associated with the use or handling of radioactive materials. They can consist of plant or equipment, building debris and material from the clean-up of surrounding ground.
Depleted uranium	Uranium where the uranium 235 isotope content is below the naturally occurring 0.72% by mass.
DFR	Dounreay Fast Reactor (shut down in 1977).
DIDO	Heavy-water cooled and moderated materials testing reactor (at Harwell site; shut down in 1990).
Disposal	The emplacement of waste in a suitable facility without intent to retrieve it. (Retrieval may be possible but, if intended, the appropriate term is storage.)
DMTR	Dounreay Materials Test Reactor.
Dragon	Experimental high temperature reactor project sited at Winfrith and funded by the Organisation for Economic Cooperation and Development (shut down in 1976).
EA	Environment Agency.
EARP	Enhanced Actinide Removal Plant (at Sellafield).
EAST	External Active Sludge Tanks (at Winfrith).
EFDA	European Fusion Development Agreement.
Enriched uranium	Uranium where the uranium 235 isotope content is above the naturally occurring 0.72% by mass.
Enrichment	The process of increasing the abundance of fissionable atoms in natural uranium.
FED	Fuel Element Debris.
FHP	Fuel Handling Plant (at Sellafield).
Fission	Spontaneous or induced fragmentation of heavy atoms into two (occasionally three) lighter atoms, accompanied by the release of neutrons and radiation.
Fission products	Atoms, often radioactive, resulting from nuclear fission.

Flatrol	Type of railway wagon. It is used for transporting fuel flasks.
Floc	A product of flocculation, a process of coagulation by the use of reagents.
Fuel cladding	The metal casing around the fuel.
Fuel stringer	A string of fuel element assemblies for an *AGR*.
GBq	Gigabecquerel, one thousand million (10^9) Becquerels.
GDA	Generic Design Assessment.
GE Healthcare Ltd	Previously Amersham plc. A company that provides products and services for use in healthcare and life science research. This includes radioisotopes for medical and research users.
GDF	Geological Disposal Facility.
GLEEP	Graphite Low Energy Experimental Pile. Low energy, graphite reactor (at Harwell site; shut down in 1990).
Government	A collective term for the central government bodies responsible for setting radioactive waste management policy within the UK. It comprises the UK Government and the devolved administrations for Scotland, Wales and Northern Ireland.
HA	High Activity.
HAL	Highly Active Liquor.
HEPA filter	High Efficiency Particulate Air filter.
Hex	Uranium Hexafluoride.
HLW	High Level Waste
HMNB	Her Majesty's Naval Base.
HVVLLW	High Volume Very Low Level Waste.
IFP	Insoluble Fission Products
ILW	Intermediate Level Waste.
ISO	International Organisation for Standardisation.
JET	Joint European Torus - the internationally funded fusion project sited at Culham.
kBq	Kilobecquerel, one thousand (10^3) Becquerels.
LA	Low Activity.
LAEMG	Low Active Effluent Management Group area (at Sellafield).
LETP	Liquid Effluent Treatment Plant.
LLLETP	Low Level Liquid Effluent Treatment Plant.
LLRF	Low Level Refuelling Facility.
LLW	Low Level Waste.
LLWR	The Low Level Waste Repository south of Sellafield in Cumbria has operated as a national disposal facility for LLW since 1959.
LSA	Low Specific Activity.
LWR	Light Water Reactor.
m^3	Cubic metres – a measure of volume.

MA	Medium Active.
MAC	Miscellaneous Activated Component.
Magnox	An alloy of magnesium used for fuel element cladding in natural uranium fuelled gas-cooled power reactors, and a generic name for this type of reactor.
MBGWS	Miscellaneous Beta Gamma Waste Store.
MBq	Megabecquerel, one million (10^6) Becquerels.
MCI	Miscellaneous Contaminated Items.
MDF	MOX Demonstration Facility (at Sellafield).
MEB	Multi-Element Bottle. Container used to hold irradiated LWR fuel in cooling ponds prior to reprocessing.
MEP	Magnox Encapsulation Plant (at Sellafield).
MMMF	Man-Made Mineral Fibre.
MoD	Ministry of Defence.
MODIX	Multi-stage Oxidative Decontamination with Ion-Exchange. A process used, among other things, to clean the pressure vessels and primary circuit pipework of nuclear submarines prior to refuelling.
MOX	Mixed Oxide. Refers to nuclear fuel consisting of uranium oxide and plutonium oxide for use in reactors.
MTR	Materials Testing Reactor.
MWP	Minor Waste Producers
NDA	Nuclear Decommissioning Authority. A public body set up by the Government in April 2005 with responsibility for the UK's public sector civil nuclear liabilities, and their subsequent management. In October 2006, the Government also gave the NDA the responsibility for developing and ensuring delivery and implementation of the programmes for interim storage and geological disposal of the UK's higher activity wastes. From March 2007, the NDA was also given responsibility for developing a UK wide strategy for managing the UK nuclear industry's LLW and for securing disposal capacity for LLW generated by non-nuclear industry users.
NDS	Commercial disposal service formerly operated by AEA Technology Harwell, sometimes referred to as the National Disposal Service.
Nimonic	An alloy of the elements nickel, chromium and other minor constituents.
NNL	National Nuclear Laboratory Limited. A Government owned science and technology services company. Formerly known as Nexia Solutions.
NRTE	Naval Reactor Test Establishment (at Vulcan, Dounreay).
Nuclear fuel	Fuel used in a nuclear reactor. Most fuel is made of uranium, and produces heat when the uranium atoms split into smaller fragments.
Operational waste	Wastes arising from the day-to-day operations of a facility associated with the use or handling of radioactive materials.
Packaged volume	The volume of waste after packaging, consisting of the waste

	material, any encapsulating matrix, any capping grout and ullage, and the container.
Packaged waste	Radioactive waste that has undergone *Packaging*.
Packaging	The loading of waste into a container for long-term storage and/or disposal. In most but not all cases this includes conditioning.
PCD	Primary Circuit Decontamination.
PCM	Plutonium Contaminated Material.
PFR	Prototype Fast Reactor (at Dounreay site).
PIE	Post Irradiation Examination, of fuel elements etc.
PLUTO	Heavy-water cooled and moderated materials testing reactor (at Harwell site; shut down in 1990).
Plutonium	A radioactive element created in nuclear reactors. It can be separated from spent nuclear fuel by reprocessing. Plutonium is used as a nuclear fuel, in nuclear weapons and as a power source for space probes.
POCO	Post Operational Clean Out. Activity after final shutdown that prepares a plant for decommissioning.
Pond furniture	Various storage racks, skips, frames, containers and MEBs used for storing irradiated fuel in cooling ponds.
Pu	Plutonium.
PWR	Pressurised Water Reactor.
PWTP	Pond Water Treatment Plant (at reactor sites).
Radioactivity	A property possessed by some atoms that split spontaneously, with release of energy through emission of a sub-atomic particle and/or radiation.
Raffinate	A solution resulting from a solvent extraction process. The term is applied to the aqueous solution of fission products (liquid HLW) remaining after the extraction of uranium and plutonium in the first stage or irradiated fuel reprocessing.
Reprocessing	The chemical extraction of reusable uranium and plutonium from waste materials in spent nuclear fuel.
RHILW	Remote Handled Intermediate Level Waste.
RRMPOL	Rolls-Royce Marine Power Operations Ltd.
RV	Resin Vault (at Trawsfynydd).
SDP	Sodium Disposal Plant (at Dounreay).
SDP	Sellafield Direct Encapsulation Plant.
SEP	Silo Emptying Plant (at Sellafield).
SEPA	Scottish Environment Protection Agency.
SETP	Segregated Effluent Treatment Plant (at Sellafield).
SGHWR	Steam Generating Heavy Water Reactor (at Winfrith site). Shut down in 1990.
SIXEP	Site Ion EXchange Plant (at Sellafield).
SLC	Site Licence Company.

S&M	Surveillance and Maintenance. A term used for a stage of decommissioning for nuclear chemical plants at Sellafield.
Small users	Organisations that use radioactive materials and create radioactive wastes that are not part of the nuclear sector licensed under the Nuclear Installations Act 1965 (as amended), including hospitals, universities and industrial undertakings.
SMART	The SMART inventory process involves re-estimating anticipated volumes using a combination of techniques including a visual walk-down of all active areas of plant with reactor staff, plus remote assessment of inaccessible areas. The operating experience of reactor staff has been particularly valuable in identifying contaminated plant and areas of potential contamination which could be decontaminated based upon past experience.
SMP	Sellafield MOX Plant.
SPF	Sand Pressure Filter.
SPP	Sludge Packaging Plant (at Sellafield).
Storage	The emplacement of waste in a suitable facility with the intent to retrieve it at a later date.
Supercompaction	A general term that describes the reduction in bulk volume by the application of high external force. It differs from routine compaction methods by using hydraulic equipment capable of exerting forces of 1,000-2,000 tonnes, and the original container (metal drum or box) is supercompacted along with its contents. Waste is often precompacted into steel drums or boxes prior to supercompaction of the drum or box.
SWR	SIXEP Waste Retrieval.
TBq	Terabecquerel, one million million (10^{12}) Becquerels.
Tc	Technetium, an element atomic number 43.
te	Tonnes
tHM	Tonnes of Heavy Metal – a measure of mass.
Thorp	Thermal Oxide Reprocessing Plant (at Sellafield site).
THTR	Thorium High Temperature Reactor.
TILWSP	Transportable Intermediate Level Waste Solidification Plant.
Treatment	A process that changes the state or form of radioactive waste to facilitate its future management. It may or may not serve to put the waste into its finally conditioned form.
Tritiated	Containing tritium.
Tritium	An isotope of hydrogen (H-3) having a radioactive half-life of about 12 years.
TSSBN	Trident Ship Submersible Ballistic Nuclear. A nuclear powered submarine with Trident ballistic nuclear missiles.
tU	Tonnes of Uranium – a measure of mass.
United Kingdom Atomic Energy Authority	A public body that manages the UK fusion research programme and operates the Joint European Torus (JET). Originally formed in 1954 to carry out nuclear research for the UK Government.
UKAEA Ltd	A subsidiary of Babcock International Group. Before its sale in 2009,

	the commercial arm of the United Kingdom Atomic Energy Authority.
Ullage	The space remaining within a container above the conditioned waste matrix and any capping material.
Uranium	A radioactive element that occurs in nature. Uranium is used for nuclear fuel and in nuclear weapons.
Vitrification	The process of converting materials into a glass or glass-like form. Vitrification is the process used at Sellafield to convert liquid HLW from spent fuel reprocessing into a borosilicate glass.
VLLW	Very Low Level Waste.
Vulcan	The Naval Reactor Test Establishment, located adjacent to the Dounreay site on the north coast of Scotland.
WAGR	Windscale Advanced Gas-cooled Reactor (shut down in 1981).
WAMAC	Waste Monitoring and Compaction facility (at Sellafield site).
Waste package	A container and its content of conditioned radioactive waste.
WCH	Waste Characterisation form. The WCH is part of the LLWR's waste acceptance procedure. It has replaced the Waste Stream Characterisation Document (WSCD).
WEP	Wastes Encapsulation Plant (at Sellafield).
WETP	Winfrith East Treatment Plant.
WPEP	Waste Packaging and Encapsulation Plant (at Sellafield).
WRACS	Waste Receipt Assay Characterisation and Supercompaction facility (At Dounreay).
WRAT	Waste Requiring Additional Treatment.
WSCD	Waste Stream Characterisation Document.
WTC	Waste Treatment Complex (at Sellafield).
WVP	Waste Vitrification Plant (at Sellafield).
Zircaloy	An alloy of the element zirconium used for the cladding of nuclear fuel – particularly in water reactors.

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Front cover images: left - waste packages at Dounreay, top - LLW vaults, bottom left - deplanting and demolition at Sizewell A, bottom right - demolition, making room for new facilities