

# ERRATA

## Corrections to published RIFE reports

Page, Section	Comment																
RIFE-1 1995	38, Section 16.2	Last but one sentence, replace 1994 with 1995.															
	39, Section 16.4	1 <sup>st</sup> sentence, 2 <sup>nd</sup> paragraph, replace 1994 with 1995.															
	45, Table 1	Replace <sup>241</sup> Am Sellafield (sea pipelines) limit of 1.3 TBq with 0.3 TBq. Replace <sup>60</sup> Co Harwell (pipeline) percentage of 1.5 with 6.9.															
	74, Table 16 99, Table 33(a)	The following activity in soil data were reported as being Bq kg <sup>-1</sup> (dry) whilst they should have been reported as Bq kg <sup>-1</sup> (wet). All data are averages unless stated.															
	<table><tr><th>Site/location</th><th><sup>210</sup>Po</th><th><sup>238</sup>Pu</th><th><sup>239+240</sup>Pu</th></tr><tr><td>Sellafield (Table 16)</td><td>64</td><td></td><td></td></tr><tr><td>Aldermaston (Table 33(a))</td><td></td><td>0.0091</td><td>0.36</td></tr><tr><td>max</td><td></td><td>0.016</td><td>0.56</td></tr></table>		Site/location	<sup>210</sup> Po	<sup>238</sup> Pu	<sup>239+240</sup> Pu	Sellafield (Table 16)	64			Aldermaston (Table 33(a))		0.0091	0.36	max		0.016
Site/location	<sup>210</sup> Po	<sup>238</sup> Pu	<sup>239+240</sup> Pu														
Sellafield (Table 16)	64																
Aldermaston (Table 33(a))		0.0091	0.36														
max		0.016	0.56														
99, Table 33(a)	The concentration of <sup>137</sup> Cs in clay at Outfall (Pangbourne) was 12±0.15 Bq kg <sup>-1</sup> (dry)																
133, Appendix 3	The average consumption rates of nuts and offal by 10 year old children were 1.5 kg y <sup>-1</sup> . The consumption of whelks at Sellafield by group E (Whitehaven commercial) was 11 kg y <sup>-1</sup> .																
138, Appendix 6	The values of t <sub>f</sub> and t <sub>s</sub> were 0. The transfer factors for beef offal ( <sup>241</sup> Pu) and lamb ( <sup>241</sup> Pu) were 2 10 <sup>-2</sup> and 4 10 <sup>-4</sup> respectively.																
RIFE-2 1996	32, Section 8.1	lines 8-11. Replace with “In 1996 no fragments of spent fuel were found on the public beach at Dounreay. Thirteen small fragments were found with caesium-137 activities in the range 10 <sup>5</sup> -10 <sup>8</sup> Bq (these activities were measured by the operator). They were all found on the Dounreay foreshore which although a public area is largely inaccessible. A”															
	58, Table 2	Replace <sup>35</sup> S Oldbury limit of 0.8 TBq with 0.75 TBq. Replace <sup>41</sup> Ar Trawsfynydd limit of 350 TBq with 3500 TBq.															

85, Table 16  
87, Table 18  
91, Table 20(a)  
95, Table 21  
119, Table 41

The following activity in soil data were reported as being Bq kg<sup>-1</sup> (dry) whilst they should have been reported as Bq kg<sup>-1</sup> (wet). All data are averages unless stated.

Site/location	<sup>234</sup> U	<sup>235</sup> U	<sup>238</sup> U
Drigg (Table 16)	8.3	0.28	7.4
Ravenglass (Table 18)	16	0.56	15
Springfields (Table 20(a))	49	2.3	45
Capenhurst (Table 21)	9.8	0.36	10
Derby (Table 41)	44	1.7	43

Table 47

This was omitted in error. The data are attached.

Table 47. Radioactivity in plants near landfill sites, 1996

Sampling location	Material	No of samples	Mean radioactivity concentration (dry)*, Bq kg <sup>-1</sup>							
			<sup>3</sup> H	<sup>14</sup> C	<sup>90</sup> Sr	<sup>125</sup> I	<sup>134</sup> Cs	<sup>137</sup> Cs	<sup>238</sup> Pu	<sup>239+240</sup> Pu
Beddingham Lewes, East Sussex	Grass	4	<40 ±18	130 ±28	1.8 ±0.1	<0.19	<0.61	<0.54 ±0.30	<0.00099 ±0.00037	0.0067 ±0.0012
Cilgwyn Quarry, Gwynedd	"	4	<30	360 ±55	3.0 ±0.2	<0.63	<0.69	<5.2 ±0.9	<0.0095	0.018 ±0.005
Lyndown, Devon	"	4	<28	150 ±30	2.4 ±0.2	<1.3 ±0.2	<0.60	<0.62 ±0.17	<0.0010	<0.0024 ±0.0009
Witton, Cheshire	"	4	<38	130 ±33	0.76 ±0.12	<1.1 ±0.3	<0.59	<0.63	<0.0013	0.0021 ±0.0016

\* Results are available for other artificial nuclides detectable by gamma spectrometry  
All such results are less than the limit of detection

RIFE-3  
1997

19, Table 1.1

Replace beta, tritium and <sup>60</sup>Co Devonport (sewer) discharges with 1.97 10<sup>-6</sup>, 2.22 10<sup>-6</sup>, 5.60 10<sup>-7</sup> TBq respectively.  
Replace alpha and beta limit and percentage Greenwich with 4.44 10<sup>-3</sup> TBq and <1 respectively.

21, Table 1.2

Replace tritium Winfrith limit with 5 TBq.

38, Section 3.6.5

1<sup>st</sup> paragraph. Reference to factor of 0.85 millisievert per milligray should be ICRP (1996b).

70, Table 4.10  
72, Table 4.12  
81, Table 4.16  
121, Table 9.1

The following activity in soil data were reported as being Bq kg<sup>-1</sup> (dry) whilst they should have been reported as Bq kg<sup>-1</sup> (wet). All data are averages unless stated.

Site/location	<sup>234</sup> U	<sup>235</sup> U	<sup>238</sup> U
Drigg (Table 4.10)	9.9	0.37	9.5
Ravenglass (Table 4.12)	18	0.60	16
Springfields (Table 4.12)	31	1.5	30
Capenhurst (Table 4.16)	9.5	0.40	9.5
Derby (Table 9.1)	27	0.97	24

90, Section 6.3

The maximum dose due to gaseous disposals was received by adults.

161, Appendix 4

The 1 year old child dose coefficient for <sup>99</sup>Tc was 4.80 10<sup>-9</sup>.

RIFE-4  
1998

Page, Section

Comment

70, Table 4.12

The concentrations of total Cs and  $^{144}\text{Ce}$  in ovine muscle (max) were 0.61 and  $<1.8 \text{ Bq kg}^{-1}$  (wet) respectively. No value for  $^{155}\text{Eu}$  is available.

75, Table 4.15(a)  
77, Table 4.16  
116, Table 9.1

The following activity in soil data were reported as being  $\text{Bq kg}^{-1}$  (dry) whilst they should have been reported as  $\text{Bq kg}^{-1}$  (wet). All data are averages unless stated.

Site/location	$^{234}\text{U}$	$^{235}\text{U}$	$^{238}\text{U}$
Springfields (Table 4.15(a))	72	3.0	68
Capenhurst (Table 4.16)	7.9	0.30	7.4
Derby (Table 9.1)	31	0.93	26

96, Table 6.4(a)

The concentration of  $^{241}\text{Am}$  in mud at Paddy's Hole was  $<1.0 \text{ Bq kg}^{-1}$  (dry). No measurement of  $^{239/240}\text{Pu}$  was made.

125, Section 11.1

Last but one paragraph. The estimated dose was 0.094 mSv.

131, Section 11.8

Last paragraph, first sentence. Replace 1997 with 1998.

RIFE-5  
1999

71, Table 4.15(a)  
73, Table 4.16  
118, Table 9.1

The following activity in soil data were reported as being  $\text{Bq kg}^{-1}$  (dry) whilst they should have been reported as  $\text{Bq kg}^{-1}$  (wet). All data are averages unless stated.

Site/location	$^{234}\text{U}$	$^{235}\text{U}$	$^{238}\text{U}$
Springfields (Table 4.15(a)) max	180	15	200
Capenhurst (Table 4.16) max	12	0.46	12
Derby (Table 9.1) max	34	1.3	31

112, Section 8.2

The second sentence of paragraph three states that "the duck and tide washed pasture pathways gave doses of 0.032 and 0.009 mSv  $\text{y}^{-1}$  respectively." The dose due to the duck pathway should read 0.042 mSv  $\text{y}^{-1}$ . The value for tide washed pasture is correct.

123, Table 10.2

The concentration of  $^{14}\text{C}$  in grass from Billingham was 960  $\text{Bq kg}^{-1}$  (wet).

162, Table A1.2

The Dounreay (Fast Reactor) data were duplicated.

RIFE-6  
2000

31, Section 3.5

It was stated that the dose limits do not apply to natural radionuclides. This sentence should be deleted.

75, Table 4.16  
124, Table 9.1

The following activity in soil data were reported as being  $\text{Bq kg}^{-1}$  (dry) whilst they should have been reported as  $\text{Bq kg}^{-1}$  (wet). All data are averages unless stated.

Site/location	$^{234}\text{U}$	$^{235}\text{U}$	$^{238}\text{U}$
Capenhurst (Table 4.16) max	8.5	0.35	8.4
Derby (Table 9.1) max	24	0.96	23

Page, Section	Comment
155, Table 12.1	Target date for project 'Tritium and carbon-14 in seafood' should have been March 2003.
166, Table A1.1	Discharges of tritium from Devonport (pipeline) given as 0.87 TBq should have been 0.087 TBq.
168, Table A1.2	Sellafield Discharge limits of alpha and beta activity should have been 0.00196 and 0.328 TBq. Percentage of limit for alpha and beta activity should have been 4.0 and <1. Discharges of tritium and <sup>14</sup> C from Sellafield given as 213 and 2.58 TBq should have been 355 and 2.94 TBq. Relevant percentages given as 15 and 30 should have been 25 and 34.
RIFE-7 2001	71, Table 4.8 80, Table 4.15(a) 93, Table 5.2(a) 122, Table 7.3 127, Table 8.2(a) 130, Table 9.1 The following activity in soil data were reported as being Bq kg <sup>-1</sup> (dry) whilst they should have been reported as Bq kg <sup>-1</sup> (wet). All data are averages unless stated.

Site/location	<sup>60</sup> Co	<sup>106</sup> Ru	<sup>125</sup> Sb	<sup>134</sup> Cs	<sup>137</sup> Cs	<sup>234</sup> U	<sup>235</sup> U	<sup>238</sup> U	<sup>241</sup> Am
Sellafield (Table 4.8)	<0.80	<3.1	<1.1		80				5.8
max	1.2				97	9.3	0.34	9.1	6.0
Springfields (Table 4.15(a))									
max						95	4.6	89	
Harwell (Table 5.2(a))	<0.40			<0.40	2.9				
Featherstone position A (Table 7.3)						9.5	0.41	9.0	
Featherstone position B (Table 7.3)						7.3	0.34	7.5	
Cardiff (Table 8.2(a))				<0.33	5.6				
max				<0.40	6.5				
Derby (Table 9.1)						18	0.80	18	
max						30	1.3	29	

176, Table A1.1	Discharges of Alpha for Hunterston 'A' given as 0.14 TBq should have been 1.4 10 <sup>-5</sup> TBq. The % of limit given as 350 should have been <1.
181, Table A1.2	Dungeness 'A' discharge limit and % of limit for tritium should have been 3 and 23 respectively.

RIFE-8 2002	59, Table 4.1	Two tritium results were omitted. The data are attached.
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Table 4.1. Beta/gamma radioactivity in fish from the Irish Sea vicinity and further afield, 2002

Location	Material	No. of sampling observations	<sup>3</sup> H
Liverpool Bay	Flounder	2	<25
Mersey estuary	Flounder	2	<25

79, Table 4.14  
82 Table 4.17  
128, Table 7.1(a)  
138, Table 8.2(a)

The following activity in soil data were reported as being  $\text{Bq kg}^{-1}$  (dry) whilst they should have been reported as  $\text{Bq kg}^{-1}$  (wet). All data are averages unless stated.

Site/location	$^{60}\text{Co}$	$^{106}\text{Ru}$	$^{125}\text{Sb}$	$^{134}\text{Cs}$	$^{137}\text{Cs}$	$^{234}\text{U}$	$^{235}\text{U}$	$^{238}\text{U}$
Sellafield (Table 4.14)	<0.80	<2.3	<1.2	68				
max	1.0	<2.7	<1.4	82				
Drigg (Table 4.17)								
max						6.9	0.30	6.5
Aldermaston (Table 7.1(a))								
max						8.7	0.35	8.3
Cardiff (Table 8.2(a))				<0.30	6.4			
max					8.1			

102, Figure 6.1

An incorrect bar in Figure 6.1 for Bradwell (2002) is corrected below

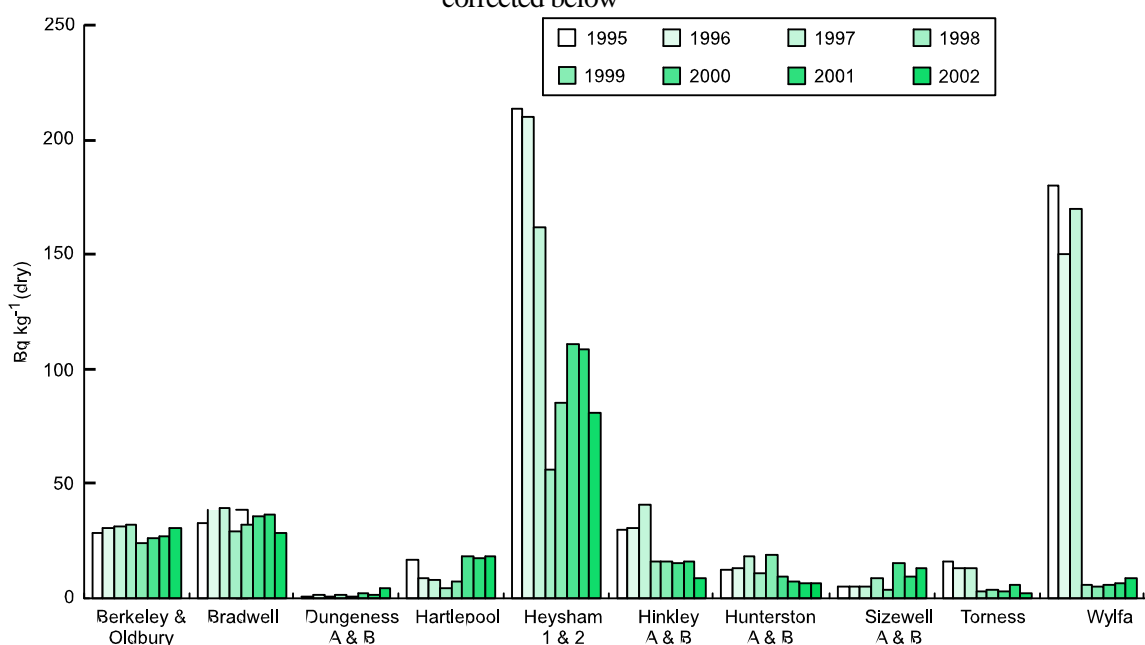


Figure 6.1. Caesium-137 concentration in sediments near nuclear power stations

RIFE-1 - RIFE-8  
1995-2002

Urenco Capenhurst have reassessed atmospheric discharges of uranium; the reassessed discharges are listed in Table E1.

Table E1. Reassessed atmospheric discharges of uranium from Urenco Capenhurst

Year	Original reported discharge TBq	Reassessed discharge TBq
1993	$1.74 \times 10^{-9}$	$2.41 \times 10^{-7}$
1994	$6.74 \times 10^{-9}$	$2.63 \times 10^{-7}$
1995	$2.69 \times 10^{-8}$	$2.75 \times 10^{-7}$
1996	$1.11 \times 10^{-7}$	$8.23 \times 10^{-7}$
1997	$6.80 \times 10^{-8}$	$4.90 \times 10^{-7}$
1998	$6.87 \times 10^{-8}$	$1.87 \times 10^{-6}$
1999	$8.15 \times 10^{-8}$	$1.01 \times 10^{-6}$
2000	$9.64 \times 10^{-8}$	$8.72 \times 10^{-7}$
2001	$1.20 \times 10^{-7}$	$9.77 \times 10^{-7}$
2002	$1.16 \times 10^{-7}$	$6.01 \times 10^{-7}$

RIFE-9  
200382, Table 3.15  
138 Table 6.1(a)  
141, Table 6.3(a)  
151, Table 7.3(a)  
157, Table 8.1(a)The following activity in soil data were reported as being Bq kg<sup>-1</sup> (dry) whilst they should have been reported as Bq kg<sup>-1</sup> (wet). All data are averages unless stated.

Site/location	<sup>60</sup> Co	<sup>106</sup> Ru	<sup>125</sup> Sb	<sup>134</sup> Cs	<sup>137</sup> Cs	<sup>154</sup> Eu	<sup>234</sup> U	<sup>235</sup> U	<sup>238</sup> U	<sup>241</sup> Am
Sellafield (Table 3.15)	<0.90	<3.3	<1.2	<0.40	75	<0.50				5.9
max	1.6	<4.2	<1.6		89	<0.60	11	0.54	10	7.7
Aldermaston (Table 6.1(a))										
max							11	0.48	11	
Derby (Table 6.3(a))										
max							47	1.6	40	
Cardiff (Table 7.3(a))				<0.40	8.8					
max					11					
Drigg (Table 8.1)										
max							6.7	0.26	6.7	

185, Table 9.12

Some data were incorrect. The amended version of the table is attached.

Table 9.12. Concentrations of radionuclides in rainwater and air 2003

Location	Sample	No. of sampling observations	Mean radioactivity concentration <sup>a</sup> in rainwater and air								Gross alpha <sup>b</sup>	Gross beta <sup>b</sup>
			<sup>3</sup> H <sup>7</sup>	Be	<sup>90</sup> Sr <sup>b</sup>	<sup>137</sup> Cs	<sup>210</sup> Pb	<sup>210</sup> Po	<sup>228</sup> Th			
Ceredigion Aberporth	Rainwater	12	<2.4	<1.6		<0.053	0.10		*			
	Air	4		0.0022		<0.00000052	0.00017		*			
Co. Down Conlig	Rainwater	4		<1.5		<0.022	*		*			
	Air	4		0.0022		<0.00000063	0.00015		*			
Dumfries and Galloway Eskdalemuir	Rainwater	4	4	<2.7	1.2		<0.0098	0.094		*		
	Air	4		0.0018		<0.00000043	0.00013		*			
North Yorkshire Dishforth	Rainwater	4		<2.2		<0.039	*		*			
	Air	4		0.0016		<0.00000055	0.00014		*			
Oxfordshire Chilton	Rainwater	12		<1.5	<0.00064	<0.032	0.32		*	0.074	0.17	
	Air	13		0.0018		<0.00000034	0.00027	<0.000014	*			
Shetland Lerwick	Rainwater	4		1.6		<0.017	*		*			
	Air	4		0.0015		<0.00000052	0.00010		*			
Suffolk Orfordness	Rainwater	4	<2.2	<2.4		<0.048	*		5.2			
	Air	4		0.0022		<0.00000053	0.00020		*			

\* Not detected by the method used

<sup>a</sup> Bq l<sup>-1</sup> for rainwater and Bq kg<sup>-1</sup> for air<sup>b</sup> Annual bulk analysis

187, Table 9.14

The concentration of <sup>210</sup>Po in Cornwall, River Fowey was <0.0098 Bq l<sup>-1</sup>.

Table 9.16. Estimates of maximum radiation exposure from radionuclides in drinking water, 2003<sup>a</sup>

Country	Exposure, mSv Man-made radionuclides <sup>b</sup>	Natural radionuclides <sup>c</sup>	All radionuclides
England	<0.001	0.028	0.028
Northern Ireland	<0.001	0.026 <sup>d</sup>	0.026 <sup>d</sup>
Scotland	<0.001		
Wales	<0.001	0.027	0.027

<sup>a</sup> The maximum dose is selected for each nuclide group from data for individual sampling locations.

Many estimates of dose are based on concentration results at limits of detection.

<sup>b</sup> Including tritium

<sup>c</sup> Including carbon-14

<sup>d</sup> Analysis of natural radionuclides was not undertaken

214, Table A1.2

The data shown for Faslane are a duplication of the data for Rosyth and were included in error.

RIFE-10  
2004

75, Table 3.7

The entry for Haverigg should read 0.087.

45, Figure 3.8

An incorrect bar in Figure 3.8 for Americium discharge is corrected below:

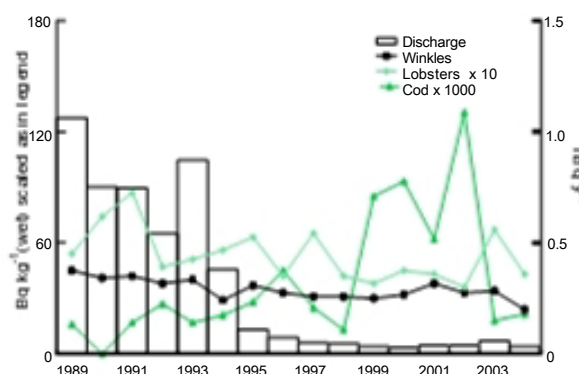


Figure 3.8. Americium-241 and liquid discharge from Sellafield and concentrations in cod\*, lobsters and winkles near Sellafield (\* estimated in 2004 due to lack of availability of cod)

87, Table 3.15

151 Table 6.1(a)

154, Table 6.3(a)

166, Table 7.3(a)

173, Table 8.1(a)

The following activity in soil data were reported as being Bq kg<sup>-1</sup> (dry) whilst they should have been reported as Bq kg<sup>-1</sup> (wet). All data are averages unless stated.

Site/location	<sup>60</sup> Co	<sup>106</sup> Ru	<sup>125</sup> Sb	<sup>134</sup> Cs	<sup>137</sup> Cs	<sup>234</sup> U	<sup>235</sup> U	<sup>238</sup> U
Sellafield (Table 3.15)	<0.43	<1.4	<0.73					
max	0.80	<1.5	<0.80			16	0.64	15
Aldermaston (Table 6.1(a))								
max						7.8	0.29	7.2
Derby (Table 6.3(a))								
max						27	0.94	23
Cardiff (Table 7.3(a))				<0.47	7.1			
max				<0.50	7.7			
Drigg (Table 8.1)								
max						11	0.42	11

Page, Section	Comment
223, Table A1.1	The % annual limit for $^{106}\text{Ru}$ discharge at Sellafield was 7% (not 70%).
246, Table A5.1	Some dose per unit intake values were missing for 1 yr old. These were:

Table A5.1. Dosimetric data

Radionuclide	Dose per unit intake by inhalation using ICRP-60 methodology (Sv Bq <sup>-1</sup> )
Sr-90 <sup>†</sup>	1.2E-07
Zr-95 <sup>†</sup>	2.1E-08
Ba-140 <sup>†</sup>	2.6E-08
Pb-210 <sup>†</sup>	4.0E-06
Th-228 <sup>†</sup>	1.4E-04
U-238	9.4E-06

<sup>†</sup> Energy and dose per unit intake data include the effects of radiations of short-lived daughter products

RIFE-11  
2005

72, Table 3.3a	Footnote 'd' showed an incorrect value. It should have read: <sup>d</sup> The concentration of $^{237}\text{Np}$ was 0.00035 Bq kg <sup>-1</sup>
112, Table 4.3a	Column headings should have read: $^{239}\text{Pu} + ^{240}\text{Pu}$ $^{241}\text{Pu}$
140, Table 5.5a	The result of <0.13 for $^{241}\text{Am}$ in the Fucus vesiculosus samples from Pilot Station was incorrectly put into the $^{239}\text{Pu} + ^{240}\text{Pu}$ column.
206, Figures 9.5 and 9.6	Incorrect units were shown. The correct units were mBq l <sup>-1</sup> .
225, Table 9.15	Incorrect headings in the top part of the table. Should have been as below:

Table 9.15. Concentrations of radionuclides in sources of drinking water in England and Wales, 2005

Location	Sample source	No. of sampling observations	Mean radioactivity concentration, Bq l <sup>-1</sup>				
			$^3\text{H}$	$^{40}\text{K}$	$^{90}\text{Sr}$	$^{137}\text{Cs}$	$^{210}\text{Po}$
Wales							
Gwynedd	Cwm Ystradlyn Treatment Works	4	<4.0	<0.020	0.0036	0.0018	<0.010
Mid-Glamorgan	Llwyn-on Reservoir	4	<4.0	<0.045	0.0030	<0.0010	<0.013
Powys	Elan Valley Reservoir	4	<4.0	<0.050	0.0040	0.00090	<0.010

248, Table A1.2	Sellafield discharge limits for alpha and beta should have been 8.90 10 <sup>-5</sup> and 0.00174 TBq respectively.
251, Table A1.2	Aldermaston Tritium discharge and % limit should have been 14.1 and 8.3 respectively.

RIFE 8-11  
2002-2005

Concentrations in sediments	For sediment samples with unusually high water contents it was discovered in 2007 that the resulting sample bulk densities were outside the instrument calibration range. Following investigations a correction factor has been calculated and this has been applied to the affected data from 2002-2005 and the new results are reported here in Table E2.
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These amendments do not significantly affect any assessments, charts or statements in the relevant RIFE reports.

Table E2. Amended concentrations of radionuclides in sediment, 2002-2005

Year	Site	Location	No. of sampling observations	Mean radioactivity concentration (dry), Bq kg <sup>-1</sup>						
				<sup>57</sup> Co	<sup>60</sup> Co	<sup>65</sup> Zn	<sup>95</sup> Zr	<sup>95</sup> Nb	<sup>106</sup> Ru	<sup>125</sup> Sb
2002	Aldermaston	Reading (Kennet)	4							
		Stream draining south	4							
	Bradwell	Maldon	2		<3.4					
		Waterside	2		<4.0					
	Capenhurst	Rossmore (4.3 km downstream)	2							
	Cardiff	Canal	2							
		West of pipeline	2							
	Devonport	Lopwell	2		<3.7					
	Dungeness	Pilot Sands	2		<0.90					
	Harwell	Appleford	4		<0.60					
Day's Lock		4		<0.50						
Sellafield	Caerhun	2		<3.3		<9.6	<7.7	<23	<9.2	
2003	Aldermaston	Reading (Kennet)	4							
		Aldermaston	4							
	Amersham	Outfall (Grand Union Canal)	3	<0.30	<1.1	<1.5				
	Bradwell	Waterside	2		<2.0					
	Cardiff	Canal	1							
	Derby	River Derwent (downstream)	4		<1.0					
	Devonport	Lopwell	2		<2.5					
2004	Aldermaston	Reading (Kennet)	4							
		Aldermaston	4							
		Stream draining south	4							
	Amersham	Upstream of outfall (Grand Union Canal)	2	<6.4	<1.8	<4.1				
	Cardiff	Canal	2							
	Sellafield	Caerhun	2		<1.6		<4.5	<2.2	<12	<13
2005	Aldermaston	Reading (Kennet)	4							
	Amersham	Upstream of outfall (Grand Union Canal)	2	<5.3	<1.6	<3.6				
	Cardiff	Canal	2							
	Harwell	Lydebank Brook	4		<1.7					
		Appleford	4		<2.5					
	Sellafield	Caerhun	2		<2.6		<8.8	<6.8	<20	<20
		Trawsfynydd	Bailey Bridge	2		<8.3				

Year	Site	Location	No. of sampling observations	Mean radioactivity concentration (dry), Bq kg <sup>-1</sup>								
				<sup>125</sup> I	<sup>131</sup> I	<sup>134</sup> Cs	<sup>137</sup> Cs	<sup>144</sup> Ce	<sup>154</sup> Eu	<sup>155</sup> Eu	<sup>241</sup> Am	
2002	Aldermaston	Reading (Kennet)	4				7.3					<1.9
		Stream draining south	4				<5.1					<1.2
	Bradwell	Maldon	2			6.5	80					<4.0
		Waterside	2			3.9	59					<13
	Capenhurst	Rossmore (4.3 km downstream)	2				<4.4					
	Cardiff	Canal	2	<0.80			2.4					
		West of pipeline	2	<3.1			33					
	Devonport	Lopwell	2				7.7					
	Dungeness	Pilot Sands	2				<0.90				<1.6	
	Harwell	Appleford	4				<13					
		Day's Lock	4				6.0					
	Sellafield	Caerhun	2			<3.4	430	<25	<7.3	<8.0	75	
	2003	Aldermaston	Reading (Kennet)	4				8.0				
Aldermaston			4				6.3					<2.7
Amersham		Outfall (Grand Union Canal)	3	<1.0	<550		<2.1					
Bradwell		Waterside	2				35					<2.7
Cardiff		Canal	1	<1.4			16					
Derby		River Derwent (downstream)	4									
Devonport		Lopwell	2				<10					
2004	Aldermaston	Reading (Kennet)	4				5.4					<1.1
		Aldermaston	4				<3.9					<1.3
		Stream draining south	4				<2.8					1.6
	Amersham	Upstream of outfall (Grand Union Canal)	2	<0.80	<1.4		10					
	Cardiff	Canal	2	<1.5			11					
	Sellafield	Caerhun	2			<1.5	220	<5.7	<7.3	<3.1	51	
2005	Aldermaston	Reading (Kennet)	4				<3.9					6.5
	Amersham	Upstream of outfall (Grand Union Canal)	2	<1.0	<9.1		6.2					
	Cardiff	Canal	2	<1.8			9.1					
	Harwell	Lydebank Brook	4				9.0					
		Appleford	4				<11					
	Sellafield	Caerhun	2			<2.5	230	<9.3	<12	<5.3	59	
		Trawsfynydd	Bailev Bridge	2			<4.2	920				76

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167, Table 6.3a

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Comment

The concentration of <sup>241</sup>Am in winkles at Drigg should have been 29.

Line 22 second column  
replace with  
• At Dungeness, dose from gaseous discharges increased.

The range in the key should have been 2 to 8.

The <sup>210</sup>Po and <sup>210</sup>Pb results are the wrong way round for South Gare winkles. <sup>210</sup>Po should be 11 and <sup>210</sup>Pb should be 0.46 Bq kg<sup>-1</sup>

Derby, the total exposure and exposure from intakes of sediment and water should have been <0.005 mSv.

Line 17 second column should read  
• The total dose of 0.008...

Line 3 first column should read  
... indicated that it was likely there would be no adverse impact

Both bars for Bradwell should be the same height.  
The bar for exposures due to liquid wastes is wrong.

Springfields, doses to the public  
Lines 1 & 2 second column should read  
...pathways from gaseous discharges were less than 0.005mSv which was less than 0.5 per cent...

The bar for Whitehaven in 2008 should have been the same height as the bar for 2007

Gaseous discharges and terrestrial monitoring  
Line 28, first column should read  
The results of monitoring for 2008...

Results for Cardiff East WWTW should have been:

Material	Location or selection <sup>b</sup>	No. of sampling observations <sup>c</sup>	Mean radioactivity concentration (fresh) <sup>a</sup> , Bq kg <sup>-1</sup>			
			Organic <sup>3</sup> H <sup>e</sup>	<sup>3</sup> H	<sup>3</sup> H <sup>f</sup>	<sup>14</sup> C
<b>Terrestrial samples</b>						
Crude effluent	Cardiff East WWTW	3 <sup>E</sup>	<150	<220	82	<11
Final effluent	Cardiff East WWTW	3 <sup>E</sup>	<60	<70	80	<11
Sludge pellets	Cardiff East WWTW	3 <sup>E</sup>		76000		740
Solids from crude effluent	Cardiff East WWTW	3 <sup>E</sup>		<7500		<1800

Sellafield (sea pipelines) Tritium discharge limit should have read 2 10<sup>4</sup>