

Foreshore particles finds to 19 March 2008

ID Number	Date	Easting	Northing	Depth cm	Cs137 Bq	Co60 Bq	Nb94 Bq	Type	Comments
A	04-Nov-83	298435	967070	20	5.6E+07				
84000	06-Jan-84	298350	967000		2.0E+07				
84046	21-Jan-84	298320	966960		3.4E+06				
84048	21-Jan-84	298380	967090		6.7E+01				
84049	21-Jan-84	298400	967090		6.7E+05				
84050	21-Jan-84	298380	967020		2.0E+06				
84051	21-Jan-84	298420	967090		2.6E+06				
84056	21-Jan-84	298410	967060		4.4E+06				
8408B	28-Jan-84	298500	967250		2.4E+06				
8410B	28-Jan-84	298920	967600		5.6E+07				
8409B	28-Jan-84	298550	967260		7.0E+06				
84096	25-Feb-84	298300	966970	25	2.7E+06				
84110	27-Feb-84	298320	966970	45	7.4E+05				Result added to list on 27/2/2006 following internal audit
84170	17-Mar-84	298305	966950	23	5.9E+06				
84171	17-Mar-84	298300	966950	13	5.6E+05				Result corrected on 27/2/2006 following internal audit
84172	17-Mar-84	298250	966940	5	3.7E+05				
84173	17-Mar-84	298250	966950	46	1.3E+07				
84267	12-May-84	298300	966980	23	2.0E+06				
84315	26-May-84	298510	967260	30	9.3E+07				
84591	22-Sep-84	298300	966970	3	3.7E+06				Result corrected on 27/2/2006 following internal audit
84693	10-Nov-84	298340	966980	15	1.3E+06				Result corrected on 27/2/2006 following internal audit
84712	17-Nov-84	298510	967260	20	1.1E+07				
84734	01-Dec-84	298690	967380	15	1.4E+06				Result corrected on 27/2/2006 following internal audit
84775	15-Dec-84	298360	967000	20	1.3E+06				Result corrected on 27/2/2006 following internal audit
84776	15-Dec-84	298390	967025	8	1.8E+06				Result corrected on 27/2/2006 following internal audit
84777	15-Dec-84	298410	967030	1		1.5E+04			
84788	22-Dec-84	298390	967040		1.6E+06				Result corrected on 27/2/2006 following internal audit
84789	22-Dec-84	298400	967050		2.1E+06				Result corrected on 27/2/2006 following internal audit
85004	05-Jan-85	298370	966980	20	6.5E+05				Result corrected on 27/2/2006 following internal audit
85076	26-Jan-85	298420	967130	6	1.1E+07				Result corrected on 27/2/2006 following internal audit

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ID Number	Date	Easting	Northing	Depth cm	Cs137 Bq	Co60 Bq	Nb94 Bq	Type	Comments
85148	09-Mar-85	298390	967060	10	3.7E+06				
85177	23-Mar-85	298370	966990	15	1.0E+06				
85178	23-Mar-85	298190	966990	8	3.2E+06				Result corrected on 27/2/2006 following internal audit
85231	04-May-85	298450	967200			7.4E+03			
85344	15-Jun-85	298520	967250	10	4.6E+06				
85458	10-Aug-85	298700	967380	30	2.2E+07				
85759	23-Nov-85	298370	967010	1	8.5E+05				
85760	23-Nov-85	298500	967220	1	3.0E+06				
85784	07-Dec-85	298370	967030	1	6.3E+05				
86001	04-Jan-86	298480	967250	5	9.8E+06				Result corrected on 27/2/2006 following internal audit
86002	04-Jan-86	298330	967110	10	4.2E+06				Result corrected on 27/2/2006 following internal audit
86034	18-Jan-86	298370	966980	3	7.0E+06				Result corrected on 27/2/2006 following internal audit
86035	18-Jan-86	298380	967030	23		1.2E+04			137Cs not present in lab report, only 60Co
86036	18-Jan-86	298380	967020	23	9.9E+06				Result corrected on 27/2/2006 following internal audit
86037	18-Jan-86	298380	967000	8	2.1E+06				60Co not present in lab report, only 137Cs
86075	01-Feb-86	298410	967050	15	3.5E+06				
86076	01-Feb-86	298730	967380	23	6.3E+06				
86111	15-Feb-86	298720	967380	3	1.7E+06				
86112	15-Feb-86	298750	967420	30	8.9E+06				
86179	15-Mar-86	298380	967020	5	1.1E+04				Result corrected on 27/2/2006 following internal audit
86180	15-Mar-86	298420	967070	5	5.0E+05				Result corrected on 27/2/2006 following internal audit
86181	15-Mar-86	298520	967250	15	4.6E+04				Result corrected on 27/2/2006 following internal audit
86227	05-Apr-86	298420	967070	3	3.0E+06				
86228	05-Apr-86	298530	967230	13	3.3E+06				
86753	28-Jun-86	298630	967470	15	3.7E+06				
861267	22-Nov-86	298380	967020	10	4.4E+05				
861310	06-Dec-86	298380	967070	25	8.8E+05				Result corrected on 27/2/2006 following internal audit
870015	10-Jan-87	298410	967070	0	1.0E+06				
870130	21-Feb-87	298410	967090	15	5.5E+06				
870228	04-Apr-87	298330	966970	8	2.0E+05				

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870281	25-Apr-87	298380	967050	46	4.5E+07				
870330	09-May-87	298690	967390	10	1.3E+07				
870375	23-May-87	298960	967580	3	6.0E+05				
870697	15-Aug-87	298750	967350	0	4.0E+04				
870977	07-Nov-87	298350	966990	15	1.2E+06				
870978	07-Nov-87	298740	967370	3	3.4E+06				
871085	05-Dec-87	298740	967370	23	2.3E+07				
880061	27-Jan-88	298700	967370	23	3.1E+06				
880062	27-Jan-88	298700	967390	3	1.0E+07				
880120	23-Feb-88	298350	967080	4	3.2E+06				
880169	24-Mar-88	298530	967260	8	3.1E+06				
880170	24-Mar-88	298535	967270	15	7.8E+05				
880545	30-Jul-88	298542	967264	1	1.3E+07				
880546	30-Jul-88	298630	967398	1	2.0E+07				
880597	13-Aug-88	298670	967345	1	3.1E+06				
880686	27-Aug-88	298705	967395	10	2.5E+06				
881055	09-Nov-88	298520	967190	3	4.3E+05				
881261	21-Dec-88	298320	966950	8	2.1E+07				Result corrected on 27/2/2006 following internal audit
890028	09-Jan-89	298520	967270	23	4.9E+07				
890091	25-Jan-89	298420	967080	15	2.4E+06				
890093	25-Jan-89	298650	967450	3	3.2E+06				
890140	07-Feb-89	298380	967020	1	2.8E+06				
890346	03-Apr-89	298720	967370	10	6.2E+06				
890446	19-Apr-89	298410	967080	10	9.6E+06				
890503	03-May-89	298330	966980	0	4.5E+06				
890543	10-May-89	298420	967080	3	5.5E+06				
890549	11-May-89	298390	967090	5	4.3E+06				
890566	16-May-89	298380	967040	8	1.0E+05				
890579	19-May-89	298400	967030	8	4.0E+05				
891071	12-Sep-89	298720	967390	8	1.3E+07				

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ID Number	Date	Easting	Northing	Depth cm	Cs137 Bq	Co60 Bq	Nb94 Bq	Type	Comments
891130	27-Sep-89	298390	967050	8	2.3E+06				
891131	27-Sep-89	298720	967380	8	9.5E+06				
891372	21-Nov-89	298790	967450	5	3.4E+06				
900003	06-Jan-90	298190	966980	5	2.7E+05				
900004	06-Jan-90	298380	967050	3	2.8E+06				
900051	15-Jan-90	298250	966990	10	4.6E+05				
900052	15-Jan-90	298250	967000	13	2.6E+06				
900104	06-Feb-90	298350	967070	5	4.0E+06				
900133	12-Feb-90	298290	966990	8	1.7E+06				
900254	13-Mar-90	298420	967120	13	1.6E+06				
900405	23-Apr-90	298740	967450	30	7.0E+06				
901196	14-Aug-90	298850	967440	8	1.2E+06				
901515	08-Oct-90	298370	967020	5	2.1E+05				
901516	08-Oct-90	298380	967050	30	1.2E+06				
910163	30-Jan-91	298900	967600	15	4.1E+06				Result corrected on 27/2/2006 following internal audit
910164	30-Jan-91	298880	967590	8	1.1E+06				Result corrected on 27/2/2006 following internal audit
910165	30-Jan-91	298870	967580	15	4.0E+06				
910166	30-Jan-91	298850	967560	10	3.7E+06				
910241	11-Feb-91	298860	967580	5	3.0E+06				
910522	09-Apr-91	298710	967470	38	5.0E+06				
910643	06-May-91	298375	967040	8	3.0E+06				
910985	22-Jul-91	298720	967450	8	5.0E+05				
911077	12-Aug-91	298720	967390	25	1.1E+07				
911541	25-Nov-91	298370	967010	20	5.0E+05				
911542	25-Nov-91	298400	967080	15	6.0E+06				
911550	26-Nov-91	298720	967400	15	1.8E+07				
911551	26-Nov-91	298770	967430	30	2.0E+08				
920834	16-Jun-92	298380	967020	4	1.0E+04				
920890	30-Jun-92	298280	966980		1.0E+04				
921026	11-Aug-92	298430	967070		9.0E+03				

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921088	25-Aug-92	298450	967130		1.6E+05				
930178	19-Feb-93	298310	966970	15	3.0E+06				
930284	19-Feb-93	298340	966990	8	1.0E+05				
930271	04-Mar-93	298380	967060	25	1.0E+06				
930304	18-Mar-93	298380	967020	5		8.0E+05			
930335	31-Mar-93	298410	967050	8	5.0E+05				
930417	16-Apr-93	298780	967480	10	5.0E+06				
930421	16-Apr-93	298870	967570	15	1.0E+06				
930456	28-Apr-93	298450	967160	20	1.0E+06				
930457	29-Apr-93	298830	967550	15	3.0E+06				
930509	10-May-93	298390	967070	5	4.0E+06				
930517	11-May-93	298710	967410	5	6.0E+06				
930518	11-May-93	298820	967450	13	5.0E+06				
930637	22-Jun-93	298720	967420	20	6.0E+06				
940122	20-Jan-94	298380	967080	8	2.0E+07				Result corrected on 27/2/2006 following internal audit
940241	15-Feb-94	298280	966980	5	1.7E+06				
940242	15-Feb-94	298390	967070	10	1.1E+06				
940310	03-Mar-94	298380	967030	4	3.6E+05				
940459	07-Apr-94	298305	966970	2	2.0E+06				
940568	12-May-94	298380	967010	5	5.0E+06				
941123	01-Oct-94	298489	967135		7.7E+05				
941300	27-Oct-94	298830	967480	10	1.0E+07				
941306	31-Oct-94	298380	967000	3	7.5E+06				
941497	07-Dec-94	298270	966940	3	8.0E+06				
941498	08-Dec-94	298470	967120	20	4.4E+05				
941499	08-Dec-94	298440	967050	8	1.7E+05				
941508	14-Dec-94	298470	967120	15	6.2E+06				
941510	15-Dec-94	298540	967280	1	4.9E+05				
950056	14-Jan-95	298540	967280	15	1.1E+06			MTR	
950210	06-Mar-95	298440	967100	8	1.1E+07			MTR	
950265	25-Mar-95	298320	966980	10	3.0E+06			MTR	
950266	25-Mar-95	298340	966995	10	1.0E+06			MTR	

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950267	25-Mar-95	298330	966960	8	5.0E+05			MTR	
950440	11-May-95	298270	966950	5	9.2E+05			MTR	
951344	07-Oct-95	298880	967600	45	1.2E+07			MTR	
951451	26-Oct-95	298770	967480	2	1.1E+06			MTR	
951535	08-Nov-95	298770	967480	8	2.3E+06			MTR	
951633	22-Nov-95	298720	967470	5	1.2E+07			MTR	
951835	21-Dec-95	298380	967090	10	2.1E+07			MTR	
960300	29-Feb-96	298290	966960	5	1.3E+06				
960939	18-Apr-96	298345	966984	15	1.6E+06			MTR	
961049	25-Apr-96	298720	967445	15	4.6E+06				
961466	25-May-96	298380	967030	4	3.1E+05				
961541	07-Jun-96	298675	967438	0	1.4E+07			MTR	
961544	10-Jun-96	298310	966960	8	1.5E+05			MTR	
961545	10-Jun-96	298310	966960	8	1.8E+03				
961555	11-Jun-96	298346	967002	1	1.8E+05			MTR	
961581	13-Jun-96	299013	967595	2	6.0E+03				
961620	23-Jun-96	298696	967400	10	1.6E+06			MTR	
961759	01-Jul-96	298469	967132	5	1.4E+05			MTR	
962175	15-Aug-96	298830	967450	6	7.5E+04				
962227	19-Aug-96	298259	966952	40	9.4E+04			MTR	
962228	19-Aug-96	298245	966963	60	3.9E+06			MTR	
962232	22-Aug-96	298345	966985	70	2.2E+06			MTR	
962271	28-Aug-96	298381	967018	60	4.9E+05			MTR	
962272	29-Aug-96	298710	967390	10	4.2E+06				
962276	29-Aug-96	298945	967566	5	4.8E+04			DFR	
962725	23-Oct-96	298372	967038	3	1.2E+06				
970001	31-Dec-96	298270	966950	10	2.4E+06			MTR	
970980	25-Mar-97	298498	967247	5	4.7E+05			MTR	
971239	08-Apr-97	298372	967033	nr	2.3E+05			MTR	3 fragments identified in laboratory from single find
971240	08-Apr-97	298372	967033	nr	1.4E+03				3 fragments identified in laboratory from single find

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971241	08-Apr-97	298372	967033	nr	1.5E+03			MTR	3 fragments identified in laboratory from single find
972051	07-Jun-97	298190	966980	15	1.6E+07			MTR	
972505	15-Jul-97	298453	967225	10	3.1E+05			MTR	
973065	15-Sep-97	298603	967362	15	1.5E+06			MTR	
973183	24-Sep-97	298460	967166	10	4.3E+05			MTR	
973325	07-Oct-97	298487	967230	6	2.1E+06			MTR	
973924	14-Nov-97	298507	967250	8	1.9E+05			DFR	
980768	10-Feb-98	298515	967245	5	2.3E+05			MTR	
980892	16-Feb-98	298489	967217	60	1.6E+05			MTR	
980893	16-Feb-98	298495	967233	120	1.3E+05			MTR	
982394	21-May-98	298748	967372	2	1.6E+04			MTR	
983905	25-Nov-98	298329	966991	5	7.3E+05				
984054	23-Dec-98	298371	967012		1.6E+06				
990036	07-Jan-99	298377	967006	2	5.5E+06				
990103	17-Jan-99	298386	967027	10	7.3E+06				
990136	19-Jan-99	298390	967036	1	3.6E+05				
990163	27-Jan-99	298850	967440	2	7.3E+05				
990266	14-Feb-99	298326	966984	15	1.0E+06				
990337	18-Feb-99	298495	967249	22	4.9E+05				
990679	15-Apr-99	298344	967029	8	1.5E+06				
991450	01-Jul-99	298786	967382	1	1.4E+07				
991414	13-Jul-99	298480	967163	100	1.3E+06				
992363	05-Oct-99	298489	967146		3.8E+03				
992647	10-Dec-99	298420	967050	5	4.6E+06				
DF/00/01	14-Jan-00	298420	967060	5	5.1E+06				
DF/00/02	10-Feb-00	298283	966954	12	5.9E+06				
DF/00/03	09-Mar-00	298390	967080	5	7.6E+06				
DF/00/04	05-Apr-00	298380	967022	2	6.4E+06				
DF/00/05	04-Oct-00	298349	967034	2	1.4E+06			MTR	
DF/00/06	04-Dec-00	298330	966938	1	1.1E+06			MTR	

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DF/01/01	11-Jan-01	298346	967015	2	3.9E+05			MTR	
DF/01/02	20-Mar-01	298371	967037	2	7.8E+06				
DF/01/03	30-Jul-01	298467	967124	3	6.9E+04				
DF/02/01	21-Mar-02	298341	967015	2	3.0E+06				
DF/02/02	04-Apr-02	298374	967010	1.5	9.1E+05			MTR	
DF/02/03	02-May-02	298308	966950	2	1.0E+06				
DF/02/04	02-Aug-02	298324	966950	2	7.4E+05				
DF/02/05	02-Sep-02	298390	967052	2	8.1E+05				
DF/03/01	08-Jan-03	298360	967030	5	1.7E+06				
DF/03/02	20-Feb-03	298295	966961	5	3.2E+06				
DF/03/03	27-Nov-03	298290	966969	10	2.2E+06				
DF/04/01	16-Aug-04	298380	967010	5	5.3E+05				
DF/04/02	14-Oct-04	298371	967020	15	1.8E+05				
DF/04/03	28-Oct-04	298309	966973	10	3.4E+05			MTR	'MTR' result from PhD study
DF/04/04	10-Nov-04	298343	966988	10	3.2E+05				
DF/04/05	10-Nov-04	298263	966974	15	1.1E+05				3 fragments identified
DF/04/06	09-Dec-04	298337	966994	15	8.2E+04				
DF/04/07	09-Dec-04	298359	967064	5	2.0E+05			MTR	'MTR' result from PhD study
DF/04/08	09-Dec-04	298269	966977	5	8.0E+05				
DF/04/09	21-Dec-04	298352	967065	5	5.5E+05				
DF/05/01	06-Jan-05	298356	967004	5	4.3E+04				
DF/05/02	07-Jan-05	298363	967051	5	1.9E+05				
DF/05/03	07-Jan-05	298376	967046	10	9.6E+05				
DF/05/04	01-Feb-05	298341	967018	10	9.6E+05				
DF/05/05	17-Feb-05	298353	967048	10	1.6E+06				
DF/05/06	17-Feb-05	298343	967013	15	5.9E+06				
DF/05/07	17-Feb-05	298251	966959	5	2.3E+05				
DF/06/01	06-Sep-06	298706	967411	15	6.7E+06	<4.4E+01	<1.5E+02		Long count 16 hours, east foreshore
DF/06/02	09-Nov-06	298349	967007	27	3.3E+05	<1.1E+01	<1.3E+01		Long count 16 hours
DF/06/03	22-Nov-06	298381	967071	1	1.6E+06	<1.3E+01	4.4E+01		Long count 16 hours

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ID Number	Date	Easting	Northing	Depth cm	Cs137 Bq	Co60 Bq	Nb94 Bq	Type	Comments
DF/06/04	21-Dec-06	298356	967030	4	3.1E+04	<5.5E+00	<7.9E+00		Long count 16 hours
DF/07/01	10-Jan-07	298177	966980	10	2.7E+06	<2.7E+01	<6.0E+01		Long count 16 hrs; PFR foreshore, found by hand-held instrument
DF/07/02	05-Feb-07	298364	967049	2.5	8.4E+05	<1.9E+01	<3.7E+01		16 hour count
DF/07/03	16-Mar-07	298299	966972	1.5	5.6E+05	<3.3E+00	<1.0E+01		16 hour count
DF/07/04	16-Mar-07	298361	967070	0	4.6E+04	<8.9E+00	<4.0E+00		16 hour count
DF/07/05	16-Mar-07	298348	967030	9	1.3E+06	<5.8E+00	<2.1E+01		16 hour count
DF/07/06	26-Sep-07	298340	967000	15	4.0E+04	<1.1E+01	<1.0E+01		16 hour count
DF/07/07	30-Oct-07	298746	967427	6.5	5.8E+06	<6.6E+01	<1.2E+02		Long count 16 hours, east foreshore
DF/07/08	16-Nov-07	298265	966990	12	1.3E+07	<7.7E+01	<2.1E+02		Long count 16 hours
DF/07/09	06-Dec-07	298486	967240	4	8.6E+05	<1.1E+01	<2.0E+01		Long count 16 hours
DF/08/01	13-Feb-08	298351	967063	3	1.8E+06	<3.0E+01	<4.6E+01		Long count 16 hours
DF/08/02	13-Feb-08	298372	967056	4	5.3E+05	<1.1E+01	<1.5E+01		Long count 16 hours
DF/08/03	28-Feb-08	298379	967023	10	2.3E+06	<1.4E+01	<4.4E+01		Long count 16 hours
DF/08/04	19-Mar-08	298762	967458	20	1.7E+07	<5.2E+01	2.2E+02		Long count 16 hours

Total number of foreshore particles found to last date above: 256

Highest Cs137 activity: 2.0E+08 Bq (26 November 1991)

Foreshore particles finds to 19 March 2008

Glossary of terms

ID number	Unique reference number given to each particle. Since 2000, these numbers have been structured in more detail to provide information on the location and year in which the particles was found
Date	Date on which the particle was found
Easting	East co-ordinate of particle find in UK national grid
Northing	North co-ordinate of particle find in UK national grid
Depth	Approximate depth in centimetres at which the particle was located
Cs137 Bq	Content of Caesium 137 activity in the particle, measured in becquerels
Co60 Bq	Content of Cobalt 60 activity in the particle, measured in becquerels
Nb94 Bq	Content of Niobium 94 activity in the particle, measured in becquerels
Type	<p>Type of particle. Particles are generally of three main types depending on the origin of the particle, but a fourth type, denoted by U, has also been identified:</p> <ul style="list-style-type: none">DFR - originated from Dounreay Fast ReactorMTR - originated from a Materials Test ReactorSS - stainless steel, originated from DFR or PFR (Prototype Fast Reactor) cladding materialsU - contain irradiated uranium oxide, which could have originated from MTR or DFR fuel <p>Note: particle type is determined from SEM/Edax analysis and is carried out, with the agreement of SEPA, on selected particles only</p>
Comments	<p>Some particles, when separated in the laboratory from the associated sediments, are found to comprise more than one fragment. The number of fragments is identified</p>