

Inner Solway Radiation Survey.

Sampling carried out on the 8th, 9th, 12th and 13th of December 1991.

The equipment used was a hand held pocket Geiger counter supplied by Maplin Electronics. This uses an AG1401 Geiger-Muller tube sensitive to alpha, beta, gamma and X radiation. The output from this was fed to a counter. This was a home built unit, based around a 74C912 4 digit TTL counter.

Most of the readings were taken over three minutes, to produce a average level for background. Some were taken over 10 minutes for more accuracy. Those not of 3 minutes are marked accordingly.

Unless indicated by a !!, all readings are taken at ground level.

8/12	River Eden, Eden Bridge, Carlisle.	NY401556	11	
8/12	River Eden, Beaumont (tidal limit).	NY350594	18	
8/12	Roadside verge, Dykesfield, Burgh by Sands	NY306593	16	
8/12	Drainage channel, Drumburgh Rd.	NY283594	25	
8/12	Tidal stretch of above drainage channel	NY284596	33	
8/12	Tidal River Wampool, at bridge.	NY228576	18	
9/12	Footbridge, Annan BR station. !!	NY193661	11	
9/12	Annan High St.	NY193665	12	
9/12	River Annan 100m above tidal limit.	NY191666	16	
9/12	Tidal River Annan.	NY188664	24	
9/12	Welldale, lower quayside.	NY658187	21	
9/12	Welldale, River Annan.	NY657186	24	
9/12	Welldale, tidal marshes.	NY656185	23	
9/12	River Annan, opposite works.	NY651186	21	
9/12	Waterfoot, high tide mark.	NY191645	16	
9/12	Waterfoot, tidal marshes.	NY192646	29	
9/12	Howgill Burn, tidal.	NY649203	23	
9/12	100m West of Chapelcross discharge.	NY645204	27	
9/12	High tide mark directly above outfall.	NY644206	13	
9/12	Seafield Farm road.	NY646207	15	
9/12	Seafield high tide mark.	NY646206	24	
9/12	Seafield mud flats.	NY645206	39	
9/12	Whinnyrig car park.	NY648209	14	
9/12	Whinnyrig mud flats.	NY647210	33	
9/12	West of Battlehill.	NY648215	33	
9/12	Buffer tank on pipeline (surface).	NY658202	25	
9/12	Pipeline joint 281/282 (surface).	NY659201	70	
9/12	Platform 1, Annan BR station.	NY193661	16	\$
12/12	Pipeline discharge.	NY644206	19	%
12/12	Discharge pool silt.	NY644206	30	%
12/12	Silts below run off to shoreline.	NY644206	31	
12/12	Sand and mud 10m East of discharge.	NY644206	19	
12/12	Posts 30m East of discharge.	NY644207	19	

12/12	Pipeline joint 499/500 (surface).		NY647205	18
12/12	Pipeline joint 399/400 (surface).		NY653203	17
12/12	Pipeline joint 326/327 (surface).	##	NY656202	18
12/12	Pipeline joint 291/282 (surface).		NY659201	61
12/12	Pipeline joint 239/240 (surface).	**	NY660201	141
12/12	Pipeline joint 239/240 (3 metre).	**	NY660201	37
12/12	Pipeline joint 239/240 (1.5 metre).	**	NY660201	41
12/12	Pipeline joint 240/241 (surface).		NY660201	156
12/12	Pipeline joint 171/172 (surface).		NY664200	126
12/12	Pipeline joint 149/150 (surface).	@@	NY665200	122
12/12	Pipeline joint 77/78 (surface).	&&	NY670201	120
13/12	Ednamhill, paddock SW. corner.		NY703221	100
13/12	Ednamhill, paddock NW. corner.		NY703221	37
13/12	Ednamhill, house internal.		NY703221	19 \$
13/12	Ednamhill, driveway - by bungalow.	++	NY703222	26.5
13/12	Creca T junction.		NY704225	18
13/12	West Bretton T junction.		NY709219	18
13/12	Road verge to North of Chapelcross.		NY706215	19
13/12	Chapelcross STW discharge.		NY691211	16
13/12	600m South of Chapelcross.		NY689215	14
13/12	Chapelcross perimeter, South side.		NY694217	20

Notes.

\$ - this is an average of a 10 minute count.

% - this is an average of a 5 minute count.

++ - this is an average of two, three minute counts.

&& - this point is the grassy cutting where children play and dogs are exercised.

** - this is the point where the children's meeting place is.

@@ - this is the point where the cutting is landscaped.

- this is the joint between the old and new sections of pipeline.
