

Aberthaw Power Station

The table below values in coal of List I/List II substances plus some additional substances requested by the Environment Agency. It contains the values used in the H1 assessment as well as example coal analysis data from current and future coals. Please note that this can only be taken as example data as it is from a single analysis and coal is a variable raw material. Analysis of trace elements in coal has also been shown in the past to be variable between laboratories.

	H1 Screening	Welsh Coal 1^	Welsh Coal 2^	Welsh Coal 3^	Russian Coal>
Antimony	1.6	1.2	0.8	0.5	<1
Arsenic	15	7.6	6.3	4.3	0.45
Barium	Not PI	214	339	22	145.6
Beryllium	Omitted in error	1	3	<1	0.9
Boron	28	22	22	98	13
Cadmium	0.11	0.14	0.13	0.08	<0.09
Chromium	30	23	21	6.7	2.7
Cobalt	Not PI	12	15	7.7	2.9
Copper	30	25	13	22.7	0.1
Iron	Not PI	9288	4513	5573	8371
Lead	24	9.7	7	4.2	2.74
Manganese	93	123	109	6.5	44
Mercury	0.09 (0.072*)	0.06*	0.05*	0.1*	0.06*
Molybdenum	Not PI	3	5	2.6	1.9
Nickel	33	33.6	45	38.3	49.3
Phosphorous	Not PI	652	796		59
Selenium	2.1	1.3	1.92	1.7	9.65
Silicon	Not PI	41898	35795		51294
Silver	Not PI	<0.1	<0.01	<0.1	<0.1
Tellurium	Not PI	<0.1	<0.1		
Thallium	Not PI	0.2	0.1	<0.1	<0.1
Tin	Not PI	1	0.7	0.4	3.5
Titanium	Not PI	896	925		632
Uranium	Not PI	0.9	0.8	0.4	7.3
Vanadium	51	46	43	21.5	2.3
Zinc	25	16	19	4.3	16.8

All analysis mg/kg

All analysis of a single sample (^analysis done by supplier, >analysis done by various labs)

* Hg figures from most recent analysis

All figures used for H1 screening based on EA guideline values for coal

Not PI – Not included on the Pollution Inventory and therefore not included in the H1