

Surface Water H1 Risk Assessment Phase 1, Part A Screening Tests

Table with columns for Constituents, Unit, Limit of Detection, Freshwater EQS, RFR, EFR, Pre-SCREENING, SCREENING TEST 1, SCREENING TEST 2, SCREENING TEST 3, and SCREENING TEST 4. It lists numerous chemical compounds and their measured concentrations against various regulatory standards.

Sizewell C 101287324 / 001 | P1 - For Implementation | 03-Jun-2024 | NOT PROTECTIVELY MARKED

Surface Water H1 Risk Assessment Phase 1, Part A Screening Tests

Table with columns for constituents, units, flow rates, and screening test results (Pre-SCREENING, SCREENING TEST 1, SCREENING TEST 2, SCREENING TEST 3, SCREENING TEST 4). Rows include various chemical species like Cadmium, Manganese, Nickel, etc.

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Surface Water H1 Risk Assessment Phase 1, Part B annual significant load screening tests for PHSs (priority hazardous substances)																															
										RFR: Watercourse Q95 flow m ³ /s	EFR: Effluent flow rate (mean) m ³ /s																				
										0.0258	0.00603																				
Constituents	Unit	Limit of Detection	Freshwater EQS (Annual Average)	Number of Samples	Minimum Value	Maximum Value	mean (values below LOD treated as LOD)	count of tests	count of detections	Is the substance a Priority Hazardous Substance with a Significant Load	Load in the discharge (kg/yr)	Significant load limit (kg/yr)	C3S	C3D	C4S	C3s	C3d	C4S	C4D	C3S	C3D	C4S	C4D	C3S	C3D	P10	C4S	C4D			
Cadmium (Dissolved)	mg/l	0.00008	0.00025	16	0.00008	0.00084	0.000275	16	7	YES	5.23E-02	1	0.00013	0.00008	0.00008	0.00046	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Anthracene	mg/l	0.00001	0.0001	16	0.0005	0.0005	0.0005000	16	0	YES	9.51E-02	1	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Hexachlorobenzene	mg/l	0.0005	0.00005	16	0.0005	0.0005	0.0005000	16	0	YES	9.51E-02	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Hexachlorobutadiene	mg/l	0.0001		16	0.0001	0.0001	0.0001000	16	0	YES	1.90E-02	1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dissolved Mercury Low Level	mg/l	0.00001	0.00007	16	0.00001	0.00001	0.0000100	16	0	YES	1.90E-03	1	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Benzo(a)pyrene	mg/l	0.00001	0.00000017	16	0.00001	0.00001	0.0000100	16	0	YES	1.90E-03	5	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, indeno(1,2,3cd)pyrene.	mg/l	0.00004	0.00017	16	0.00004	0.00004	0.0000400	16	0	YES	7.61E-03	5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	

A - APPROVED