

○Results of Radioactive Material Monitoring of Aquatic Organisms (Location J off Soma City)

<Location J off Soma City: Samples collected >

Items Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
J-1	○	○	○	○	○	○
J-2	○	○	○	○	○	○
J-3	○	○	○	○	○	○

<Location J off Soma City: Site measurement item >

Items Locations	Survey date and time		Latitude and longitude of the location		Water		Sediment					Other	
	Water	Sediment	Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth	
J-1	-	9:32	37.8210	140.9612	-	27.7	Silt with fine sand	5Y-2/2	None	Shells	0.8 reaching the bottom	0.8	
J-2	8:24	8:41	37.8156	140.9762	27.2	26.1	Fine sand	5Y-3/2	None	Shells	1.0	1.4	
J-3	9:00	9:10	37.8207	140.9768	27.5	26.0	Fine sand	5Y-3/2	None	Shells	0.8 reaching the bottom	0.8	

<Location J off Soma City: Analysis items Water >

Items Locations	Survey date and time		Latitude and longitude of the location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Latitude	Longitude														
J-1	-	9:32	37.8210	140.9612	-	-	-	-	-	-	-	-	-	-	-	-
J-2	8:24	8:41	37.8156	140.9762	7.8	2.5	4.3	4.8	4.460	31.42	2.6	12	7.6	0.076	0.13	0.0024
J-3	9:00	9:10	37.8207	140.9768	8.0	1.4	3.1	5.8	4.460	31.70	2.0	10	5.9	0.091	0.14	-

<Location J off Soma City: Analysis items Sediment >

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E _{NHLE} (mV)	Water content (%)	IL (%)	TOC mg/g, dry	Soil particle density (g/cm ³)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
	Latitude	Longitude	Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)							Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)					
J-1	9:32	37.8210	140.9612	7.7	106	34.1	3.5	3	2.691	2.7	7.1	21.9	44.1	8.3	15.9	0.17	9.5	170	300	-	
J-2	8:41	37.8156	140.9762	7.9	0	29.9	2.7	1	2.696	-	0.0	20.0	62.8	5.5	11.7	0.17	2	200	300	ND(<0.16)	
J-3	9:10	37.8207	140.9768	7.9	121	27.0	1.9	<1	2.718	-	0.6	17.5	76.2	1.1	4.6	0.18	2	26	38	-	

<Location J off Soma City: Analysis items Aquatic organisms >

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg, wet)	Cs-134 (Bq/kg, wet)	Cs-137 (Bq/kg, wet)	Sr-90 (Bq/kg, wet)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
J-1 J-2 J-3 (Matsukawaura)	2012/8/28	37.8210	140.9612	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectidae</i>	Pleuronectidae	30	0.18	2.3	3.6	-	Immature fish	-
				Vertebrata	Osteichthyes	Mugiliformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	14	0.41	15	21	-	Immature fish	-
				Vertebrata	Osteichthyes	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>	Dotted gizzard shad	82	0.37	8.9	13	-	Immature fish	-
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gobiidae</i>	Gobiidae	32	0.10	3.2	5.3	-	Mature fish	-
				Vertebrata	Osteichthyes	Atheriniformes	Atherinidae	<i>Atherinidae</i>	Atherinidae	10	0.15	2.4	3.8	-	Mature fish	-
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Takifugu niphobles	8	0.27	5.9	9.2	-	Immature fish	-
				Vertebrata	Osteichthyes	Cypriniformes	Tribolodon	<i>Tribolodon sp.</i>	Tribolodon	10	0.56	2.9	4.8	-	Immature fish	-
				Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus triuberculatus</i>	Japanese blue crab	3	0.17	1.2	1.8	-	Imago	-
				Arthropod	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>	Hemigrapsus penicillatus	215	0.18	120	180	-	Imago	-
				Arthropod	Malacostraca	Decapoda	Alpheus	<i>Alpheus sp.</i>	Alpheus	66	0.11	3.6	5.4	-	Imago	-
				Arthropod	Malacostraca	Mysida	Mysidae	<i>Mysida</i>	Mysidae	Many	0.17	7.4	11	-	Imago	-
				Annelida	Polychaeta	-	-	<i>Polychaeta</i>	Class Polychaeta	786	0.52	41	66	-	Imago	-
				Mollusca	Bivalvia	Pterioida	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster (shell)	Many	4.3	11	18	0.74	Imago	-
				Mollusca	Bivalvia	Pterioida	Ostreidae	Japanese oyster (molluscos part)	0.73		3.5	5.4	-			
				Mollusca	Bivalvia	Veneroidea	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck (shell)	Many	1.8	1.9	2.8	3.1	Imago	-
Mollusca	Bivalvia	Veneroidea	Veneridae	Japanese littleneck (molluscos part)	0.69	2.1	3.2	-								
Angiospermae	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	1.7	1.1	1.8	-	-	-				
Chlorophyta	Ulvophyceae	Ulvales	Ulvaceae	<i>Ulva pertusa</i>	Ulva pertusa	-	0.46	1.2	1.9	-	-	-				