

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

<Location J off Soma City: Samples collected>

Items	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	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	-	10:02	37.8210	140.9612	-	18.9	Silt with fine sand	5.5Y-2/2	None	Shell fragments	Drifting to the bottom	0.9
J-2	8:28	8:58	37.8156	140.9762	19.8	19.6	Fine sand	5Y-3/2	None	Shell fragments	1.2	1.5
J-3	9:18	9:36	37.8207	140.9768	19.1	17.9	Fine sand	5Y-3/2	None	Clams	Drifting to the bottom	1.0

<Location J off Soma City: Analysis items Water>

Items	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	-	37.8210	140.9612	-	-	-	-	-	-	-	-	-	-	-	-	
J-2	2012/6/19	8:28	37.8156	140.9762	8.1	1.3	3.4	7.6	4.330	27.83	1.8	9	7.0	0.074	0.11	0.0069
J-3	-	9:18	37.8207	140.9768	8.1	0.8	4.1	7.7	4.460	27.21	1.7	6	4.3	0.070	0.10	-

<Location J off Soma City: Analysis items Sediment>

Items	Survey date and time	Latitude and longitude of the location		pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL (%)	TOC mg/g.dry	Soil particle (g/cm3)	grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
		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)						
																Latitude	Longitude				
J-1	-	10:02	37.8210	140.9612	7.7	-102	31.8	3.0	4	2.697	2.2	5.9	26.3	41.7	12.0	11.9	0.18	9.5	370	540	-
J-2	2012/6/19	8:58	37.8156	140.9762	7.8	-128	25.3	1.4	<1	2.734	0.2	0.2	45.9	48.1	2.4	3.2	0.24	9.5	48	48	ND(<0.19)
J-3	-	9:36	37.8207	140.9768	7.9	-122	27.8	1.7	<1	2.702	0.1	0.1	10.2	82.3	3.7	3.6	0.17	9.5	22	20	-

<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 (Matsuka waura)	2012/6/19	37.8210	140.9612	Vertebrata	Pleuronectiformes	Pleuronectiformes	Pleuronectidae	<i>Pleuronectidae</i>	Pleuronectidae	14	0.040	9.8	16	-	Young fish	-
				Vertebrata	Mugiliformes	Mugiliformes	Mugilidae	<i>Mugil cephalus</i>	Flathead mullet	14	0.030	69	97	-	Immature fish	-
				Vertebrata	Perciformes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	6	0.080	10	15	-	Mature fish	-
				Vertebrata	Actinopterygii	Perciformes	Kremeriidae	<i>Acanthogobius lactipes</i>	Whitelimbed goby	94	0.16	5.3	8.0	-	Mature fish	-
				Vertebrata	Actinopterygii	Perciformes	Pholidae	<i>Pholis nebulosa</i>	Tidepool gunnel	24	0.040	4.2	6.5	-	Mature fish/Immature fish	-
				Arthropod	Decapoda	Decapoda	Grapsidae	<i>Eriocheir Japonica</i>	Japanese mitten crab	7	0.59	34	53	-	Imago	-
				Arthropod	Decapoda	Decapoda	Varunidae	<i>Hemigrapsus penicillatus</i>	Hemigrapsus penicillatus	232	0.40	16	24	-	Imago	-
				Arthropod	Decapoda	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Common prawn	359	0.28	4.9	6.9	-	Imago	-
				Arthropod	Decapoda	Mysida	Mysida	<i>Mysidae</i>	Mysid shrimp	(Many)	0.64	9.7	14	-	Imago	-
				Mollusca	Pterioidea	Pterioidea	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster (shell)	(Many)	4.0	23	33	0.55	Imago	-
				Mollusca	Pterioidea	Pterioidea	Ostreidae	Japanese oyster (molluscous part)	(Many)	1.2	1.6	2.5	-	Imago	-	
				Mollusca	Veneroidea	Veneroidea	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck (shell)	(Many)	1.4	3.8	5.5	2.3	Imago	-
				Mollusca	Veneroidea	Veneroidea	Veneridae	Japanese littleneck (molluscous part)	(Many)	0.90	2.3	3.4	-	Imago	-	
				Angiospermae	NaJadales	NaJadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	-	1.6	5.4	8.5	-	-	-
Chlorophyta	Ulotrichales	Ulotrichales	Monostromataceae	<i>Monostroma nitidum</i>	Monostroma nitidum	-	2.6	40	62	-	-	-				
Chlorophyta	Ulvaes	Ulvaes	Ulvaes	<i>Ulva pertusa</i>	Ulva pertusa	-	2.6	5.1	7.6	-	-	-				