

**OResults of Radioactive Material Monitoring of Aquatic Organisms (Location L off Soma City)**

< Location L off Soma City: Samples collected >

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

< Location L off Soma City: Site measurement item >

Items	Latitude and longitude of the location		Survey date and time			Water temperature (degrees C)	Sediment			Other		
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)		Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (m)
L-1	37.8210°	140.9610°	-	-	09:55	-	16.4	Silt with sediment	7.5Y3/1	None	-	-
L-2	37.8155°	140.9763°	2015/10/28	08:35	09:25	16.5	17.1	Sand	5Y3/2	None	1.6	>1.6
L-3	37.8217°	140.9765°	-	08:20	09:35	16.7	16.9	Sand with silt	7.5Y3/1	None	1.7	>1.7

< Location L off Soma City: General survey items/Analysis of radioactive materials - Water >

Items	Latitude and longitude of the location		Survey date and time			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)
	Scheduled latitude	Scheduled longitude	Date	Time (water)	Time (sediment)												
L-2	37.8155°	140.9763°	2015/10/28	8:35	8.1	0.6	1.7	7.6	5100	32.82	1.0	6	1.8	0.0048	0.022	-	
L-3	37.8217°	140.9765°	-	8:20	8.1	0.6	1.7	7.7	5090	32.78	1.0	11	2.0	0.0059	0.022	-	

< Location L off Soma City: General survey items/Analysis of radioactive materials - Sediment >

Items	Latitude and longitude of the location		Survey date and time			pH	Redox potential EN.H.E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm3)	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)	
	Scheduled latitude	Scheduled longitude	Date	Time (sediment)	Gravel (2-75mm) (%)							Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter				Maximum grain diameter
L-1	37.8210°	140.9610°	2015/10/28	9:55	7.5	31	38.3	4.6	7.9	2.677	4.5	5.0	14.3	36.5	24.1	15.6	0.13	9.5	34	180	-
L-2	37.8155°	140.9763°	-	9:25	7.4	194	20.8	1.0	2.2	2.721	0.1	2.2	74.1	21.1	1.5	1.0	0.30	4.8	13	49	N.D.(0.15)
L-3	37.8217°	140.9765°	-	9:35	7.6	57	26.9	1.5	1.6	2.720	0.0	0.7	55.5	37.2	3.0	3.6	0.27	2.0	17	71	-

< Location L off Soma City: Survey items Aquatic organisms >

Location	Sampling point	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)		Sr-90 (Bq/kg-wet)				
		Latitude	Longitude										Growth stage	Stomach contents	Measurement sit	Cs-134	Cs-137					
L-1	Matsukawaura	37.8210°	140.9610°	2015/10/22	Phycophyta	-	-	-	-	Plankton (Planktonic algae)	-	0.018	-	-	-	N.D.(1.9)	4.4	-				
				2015/10/28	Angiospermae	Monocotyledonae	-	Zosteraceae	<i>Zostera marina</i>	eel grass	-	-	-	1.5	-	-	-	0.28	1.2	-		
				2015/10/22	Arthropod	Malacostraca	Decapoda	Varunidae	-	-	Hemigrapsus	-	98	0.11	Imago	-	-	-	N.D.(0.74)	2.3	-	
				2015/10/28	Arthropod	Malacostraca	Decapoda	Crangonidae	<i>Crangon affinis</i>	Ebijako	-	76	0.018	Imago	-	-	-	-	N.D.(2.5)	N.D.(2.3)	-	
				2015/10/28	Mollusca	Bivalvia	Ostreoida	Ostreidae	<i>Crassostrea gigas</i>	Oyster	-	17	0.37	Imago	-	-	-	-	Molluscan body	0.39	1.1	-
				2015/10/22	Mollusca	Bivalvia	Veneroida	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	-	100	0.32	Imago	-	-	-	-	Molluscan body	0.88	4.7	-
L-2	Matsukawaura	37.8155°	140.9763°	2015/10/22	Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Gymnogobius breunigii</i>	Chestnut goby	28	0.071	Immature fish/Mature fish	-	-	-	N.D.(0.76)	2.5	-			
Vertebrata					Osteichthyes	Perciformes	Gobiidae	<i>Acanthogobius flavimanus</i>	Yellowfin Goby	-	-	-	-	-	-	-	-	-	-			
Vertebrata					Osteichthyes	Perciformes	Mugilidae	<i>Mugil cephalus cephalus</i>	Flathead mullet	11	0.16	Immature fish	-	-	-	-	-	-	2.4	9.5	-	

\*1: Organisms were collected in or around the targeted water areas.

\*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

\*3: For a sample made of multiple types of aquatic organisms, the name of the dominant one largest in number is underlined.

\*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

\*5: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith.

\*6: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40µm-mesh).

\*7: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

\*8: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

\*9: Activity concentrations include counting errors, but the details are omitted here.