

○Results 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 >

Locations	Latitude and longitude of the location		Survey date and time		Water		Sediment			Other		
	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
L-1	37.8209°	140.9607°	2014/10/29	—	10:18	—	16.8	Silt with sand	10Y3/1	Shell fragments	—	—
L-2	37.8157°	140.9764°		9:18	9:38	16.5	17.0	Fine sand	7.5Y3/1	Shell fragments	2.0	2.0 (Drifting to the bottom)
L-3	37.8217°	140.9765°		8:39	9:57	16.6	17.0	Fine sand	10Y3/1	Shell fragments	1.8	1.8 (Drifting to the bottom)

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

Locations	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)
	Latitude	Longitude	Date	Time												
L-2	37.8157°	140.9764°	2014/10/29	9:18	8.1	0.5	1.5	8.2	5.040	32.09	1.1	4	1.6	0.0068	0.021	0.0012
L-3	37.8217°	140.9765°		8:39	8.1	1.0	1.7	8.4	5.060	32.09	1.3	6	2.5	0.012	0.036	—

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

Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E <sub>H</sub> (H) (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution						Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Latitude	Longitude	Date	Time							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)
L-1	37.8209°	140.9607°	2014/10/29	10:18	7.7	259	31.0	3.1	7.0	2.696	2.3	5.0	17.8	48.6	11.0	15.3	0.15	9.5	38	130	—
L-2	37.8157°	140.9764°		9:38	8.1	280	17.6	0.9	2.2	2.729	0.2	2.8	71.4	23.8	1.1	0.7	0.33	4.75	6.7	16	N.D.(0.21)
L-3	37.8217°	140.9765°		9:57	8.2	275	21.1	1.2	2.1	2.721	0.0	0.5	56.8	39.2	1.8	1.7	0.27	2	9.3	30	—

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

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

Location	Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)			
	Latitude	Longitude										Growth stage	Stomach contents	Measurement site						
L-1 L-2 L-3	Matsukawaura	37.8209° 37.8157° 140.9764° 140.9765°	2014/10/29	Algae/plant	—	—	—	—	Plankton (singular plankter)	Considerable number	0.014	—	—	—	170	520	—			
				Angiospermae	Monocotyledoneae	Najadales	Zosteraceae	<i>Zostera marina</i>	Eel grass	Considerable number	1.1	—	—	—	—	N.D.(0.36)	0.46	—		
				Chlorophyta	Ulvophyceae	Ulvales	Ulvaceae	<i>Ulva pertusa</i>	Ulva pertusa	Considerable number	0.29	—	—	—	—	0.79	2.5	—		
				Arthropod	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	Palaemon	—	146	0.051	Imago	—	—	—	2.3	6.3	—	
				Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Hemigrapsus sp.</i>	Hemigrapsus	—	170	0.21	Imago	—	—	—	1.8	5.5	—	
				Mollusca	Bivalvia	Pterioda	Ostreidae	<i>Crassostrea gigas</i>	Japanese oyster	—	49	6.0	Imago	—	—	—	Molluscan body	0.87	2.8	—
				Mollusca	Bivalvia	Veneridae	Veneridae	<i>Ruditapes philippinarum</i>	Japanese littleneck	—	67	1.8	Imago	—	—	—	Molluscan body	0.91	3.0	—
				Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	<i>Hexagrammos otaki</i>	Fat greenling	—	6	0.64	Mature fish	Crabs	—	—	Viscera removed	0.55	2.0	—
				Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	<i>Sebastes cheni</i>	Japanese rockfish	—	2	0.050	Mature fish (1-year-old)	Mysid shrimps	—	—	Viscera removed	N.D.(1.1)	2.3	—
				Vertebrata	Osteichthyes	Perciformes	Pholidae	<i>Pholis crassispina</i>	Tidepool gunnel	—	21	0.046	Mature fish	—	—	—	N.D.(1.5)	2.3	—	
				Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gobiidae	Gobiidae	—	37	0.040	Mature fish	—	—	—	N.D.(1.1)	2.5	—	

\*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.