

◎Results of Radioactive Material Monitoring of Aquatic Organisms (Location L off Soma City)

< Location L off Soma City: Samples collected >

Items Locations	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 Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other				
	Latitude	Longitude	Date	Time (water)	Time (sediment)		Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)	Cs-134	Cs-137	Sr-90
L-1	37.820983°	140.960950°	—	10:31	—	21.8	Silt	10Y4/1	None	—	—	—	—	—	
L-2	37.815517°	140.976333°	2014/7/16	9:02	9:52	22.3	22.8	Silt with fine sand	7.5Y4/1	None	1.67	1.67 (Drifting to the bottom)	—	—	—
L-3	37.821683°	140.976500°	—	9:22	10:12	21.1	22.0	Fine sand	10Y5/1	Asari clams	1.47	1.47 (Drifting to the bottom)	—	—	—

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

Items 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	37.815517°	140.976333°	2014/7/16	9:02	8.1	0.5	2.8	7.3	4.050	27.94	1.6	6	1.3	0.012	0.029	0.0012
L-3	37.821683°	140.976500°	—	9:22	8.1	0.6	2.2	7.6	4.550	29.16	1.3	5	0.8	0.0073	0.021	—

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

Items Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (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	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	37.820983°	140.960950°	10:31	7.7	—	53	42.1	4.7	9.8	2.666	0.0	0.2	5.5	42.6	20.1	31.6	0.061	2	140	420	
L-2	37.815517°	140.976333°	2014/7/16	9:52	8.0	—	40	30.2	2.0	2.8	2.705	0.0	0.2	31.5	53.8	3.9	10.6	0.20	2	130	350
L-3	37.821683°	140.976500°	—	10:12	8.2	—	47	22.1	1.0	0.8	2.744	0.4	0.4	54.4	41.0	0.6	3.2	0.27	9.5	6.9	20

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	37.820983° 37.815517° 37.821683°	140.960950° 140.976333° 140.976500°	2014/7/16	Bivalvia	Pteriida	Ostreidae	Crassostrea gigas	Japanese oyster	Plankton(singular plankter)	Considerable number	0.024	—	—	—	68	220	—		
									Eel grass	Considerable number	2.1	—	—	—	0.45	1.2	—		
									Ulva pertusa	Considerable number	3.3	—	—	—	1.3	3.7	—		
									Mysis	Mysidae	Considerable number	0.13	Imago	—	1.2	3.2	—		
									Decapoda	Palaeomonidae	Palaeomonidae	55	0.029	Imago	—	N.D.(1.3)	N.D.(1.2)	—	
									Grapsidae	Eriocher japonica	Japanese mitten crab	3	0.15	Imago	—	4.2	11	—	
									Ostreidae	Hemigrapsus sp.	Hemigrapsus	290	0.35	Imago	—	—	2.7	7.1	
									Veneridae	Ruditapes philippinarum	Japanese littleneck	289	0.071	Imago	—	8.8	29	—	
									Polychaeta	Polychaetes	Japanese polychaete	59	0.39	Imago (2.3-4-year-old)	—	Molluscan body	N.D.(0.34)	0.85	
									Bivalvia	Veneridae	Acanthogobius flavimanus	Yellowfin Goby	4	0.059	Mature fish	—	0.83	2.1	—
									Osteichthyes	Perciformes	Pholididae	Pholis crassispina	15	0.030	Mature fish	—	1.3	3.4	—
									Mugilidae	Mugil cephalus	Flathead mullet	42	0.16	Immature fish (under 1-year-old)	—	—	19	54	

*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.