○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			
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
L-2	○	○	○	○	○	○

<Location L off Soma City: Site measurement item>

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other	
Locations	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-2	37.8155°	140.9763°	2018/10/17	11:38	12:00	19.9	19.7	Sand with silt	7.5Y3/2	Juvenile shellfish,Shell fragments	1.3	>1.3

<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	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
L-2	37.8155°	140.9763°	2018/10/17	11:38	8.0	1.1	1.8	8.0	4720	31.81	1.1	2	0.9	N.D.(0.0015)	0.0097	0.0010

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

<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	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
											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	Maximum grain diameter			
Locations	Latitude	Longitude	Date	Time (sediment)		E_{NHE} (mV)	(%)	(%)	(mg/g-dry)	(g/cm^3)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
L-2	37.8155°	140.9763°	2018/10/17	12:00	7.8	222	19.6	1.2	1.7	2.723	0.2	0.7	61.5	32.5	1.5	3.6	0.28	4.8	1.7	22	N.D.(0.15)

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

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

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
				2018/10/21	Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.021	-	-	-	4.4	N.D.(1.7)	4.4	-
				2018/10/23	Mollusca	Bivalvia	Ostreoida	Ostreidae	*Crassostrea gigas*	Oyster	9	0.16	Imago	-	Molluscous part	1.5	N.D.(0.41)	1.5	-
					Mollusca	Bivalvia	Veneroida	Veneridae	*Ruditapes philippinarum*	Japanese littleneck	30	0.14	Imago	-	Molluscous part	0.51	N.D.(0.43)	0.51	-
				2018/10/20	Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	*Hexagrammos otakii*	Fat greenling	1	0.066	Immature fish	Shellfish	Viscera removed	N.D.	N.D.(1.5)	N.D.(1.4)	-
					Vertebrata	Osteichthyes	Scorpaeniformes	Hexagrammidae	*Hexagrammos agrammus*	Hexagrammos agrammus	1	0.046	Immature fish	Empty stomach	Viscera removed	N.D.	N.D.(1.6)	N.D.(1.6)	-
L-1 L-2 L-3	Matsukawaura Lagoon	37.8210° 37.8155° 37.8217°	140.9610° 140.9763° 140.9765°		Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	*Sebastes cheni*	Rockfish	2	0.11	Immature fish	Empty stomach	Viscera removed	1.2	N.D.(1.1)	1.2	-
				2018/10/21	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Kareius bicoloratus*	Stone flounder	2	0.016	Immature fish	-	-	1.9	N.D.(1.8)	1.9	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius flavimanus*	Yellowfin Goby	58	0.47	Immature fish,Mature fish	-	-	1.5	N.D.(1.4)	1.5	0.027
					Vertebrata	Osteichthyes	Perciformes	Mugilidae	*Chelon affinis*	Chelon affinis	2	0.079	Immature fish	-	-	3.5	N.D.(0.99)	3.5	-
					Vertebrata	Osteichthyes	Perciformes	Mugilidae	*Mugil cephalus cephalus*	Flathead mullet	12	0.27	Immature fish	-	-	10.93	0.93	10	-

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

*6: 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.

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

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