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

<Location L off Soma City: Samples collected>

Items / Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
L-2	○	○	○	○	○	○

<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)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Secchi disk depth (m)
L-2	37.8155°	140.9763°	2024/7/3	10:19	10:38	24.2	23.4	Sand with gravel	5Y3/1	Shells,Plant pieces	1.5	1.2

<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	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
	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°	2024/7/3	10:19	7.8	2.3	3.6	5.9	4670	31.91	2.0	12	7.7	N.D.(0.0015)	0.022	0.0013

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 / Locations	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			
	Latitude	Longitude	Date	Time (sediment)		$E_{N.H.E}$ (mV)	(%)	(%)	(mg/g-dry)	(g/cm^3)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
L-2	37.8155°	140.9763°	2024/7/3	10:38	7.7	465	20.9	1.6	0.6	2.700	21.8	28.3	43.5	4.8	1.6		0.85	9.5	N.D.(0.25)	13	N.D.(0.12)

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)
L-1 L-2 L-3	Matsukawaura Lagoon	37.8210° 37.8155° 37.8217°	140.9610° 140.9763° 140.9765°	2024/7/10	Annelida	Polychaeta	Eunicida	Eunicidae	Polychaeta	Polychaeta	156	0.016	Juvenile,Imago	-	-	7.9	N.D.(0.68)	7.9	-
					Annelida	Polychaeta	Eunicida	Lumbrineridae	Lumbrineridae	Lumbrineridae									
					Annelida	Polychaeta	Phyllodocida	Nereididae	Nereididae	Nereididae									
					Annelida	Polychaeta	Phyllodocida	Glyceridae	Glyceridae	Glyceridae									
					Annelida	Polychaeta	Spionida	Cirratulidae	Cirratulida	Polychaeta									
					Arthropoda	Malacostraca	Decapoda	Alpheidae	Alpheidae	Alpheidae	41	0.043	Juvenile	-	-	1.1	N.D.(1.2)	1.1	-
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon* sp.	Palaemon	176	0.095	Juvenile,Imago	-	-	1.0	N.D.(0.50)	1.0	-
					Arthropoda	Malacostraca	Decapoda	Varunidae	*Hemigrapsus* sp.	Hemigrapsus	161	0.52	Juvenile,Imago	-	-	2.3	N.D.(0.55)	2.3	-
					Arthropoda	Malacostraca	Decapoda	Portunidae	*Charybdis japonica*	Shore swimming crab	16	0.83	Juvenile,Imago	-	-	1.0	N.D.(0.31)	1.0	0.095
					Mollusca	Bivalvia	Veneroida	Veneridae	*Ruditapes philippinarum*	Japanese littleneck	41	0.10	Imago	-	Molluscous part	0.97	N.D.(0.56)	0.97	-
					Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	*Sebastes cheni*	Rockfish	65	1.8	Immature fish	-	-	0.55	N.D.(0.32)	0.55	N.D.(0.021)
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Tridentiger trigonocephalus*	Chameleon goby	113	0.15	Immature fish, Mature fish	-	-	1.8	N.D.(0.42)	1.8	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acanthogobius lactipes*	Whitelimbed goby									
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Acentrogobius virgatulus*	*Acentrogobius virgatulus*									
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Gobiidae	Gobiidae									
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Favonigobius gymnauchen*	*Favonigobius gymnauchen*									
					Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	*Takifugu niphobles*	*Takifugu niphobles*	3	0.25	Mature fish	Empty stomach	Viscera removed	0.81	N.D.(0.59)	0.81	-

*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.