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

<Location L off Soma City: Samples collected>

Items	Gener	al items	Radioactive materials									
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)						
L-2	L-2 o		0	0	0	0						

## <Location L off Soma City: Site measurement item>

Cocation E on Soma City. Site incastitement items														
Items		ongitude of the ation		Survey date and time		Water		Sedi	ment		Ot	Other		
Locations	Latitude Longitude		Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)			Contaminants	Water depth (m)	Secchi disk depth (m)		
L-2	37.8155°	140.9763°	2018/8/22	11:55	12:13	23.8	23.8	Sand	5Y3/1	Japanese littleneck a little,Shell fragments	1.4	>1.4		

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

	Items	Latitude and longitude of the location		of the 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)
Ī	L-2	37.8155°	140.9763°	2018/8/22	11:55	8.0	1.1	2.2	7.2	4920	32.77	1.4	4	2.2	N.D.(0.0014)	0.013	0.00081

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								Grain size distribution										
acins					pH	Redox potential	Water content	IL.	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (sediment)		E <sub>NHE</sub>				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			
Locations	Latitude	Lingual	Duic	Time (seament)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm <sup>3</sup> )	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
L-2	37.8155°	140.9763°	2018/8/22	12:13	7.1	282	19.8	1.2	1.5	2.735	1.0	1.8	74.0	18.9	0.4	3.9	0.33	4.8	1.7	15	N.D.(0.13)

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>

<location l="" off="" soma<="" th=""><th>City: Analysis items</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></location>	City: Analysis items																		
Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight		Note		Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude					1				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
					Algae/plant	-	-	-	-	Plankton (Planktonic algae)	-	0.0096	-	-	-	N.D.	N.D.(3.0)	N.D.(3.1)	-
			140.9610° 140.9763° 140.9765°		Annelida	Polychaeta		-	Polychaeta	Polychaeta	124	0.019	Juvenile,Imago	-	-	6.4	N.D.(2.9)	6.4	-
					Arthropoda	Malacostraca	Mysida	Mysidae	Mysidae	Mysidae	-	0.033	Imago	-	-	0.89	N.D.(1.2)	0.89	-
					Arthropoda	Malacostraca	Decapoda	Varunidae	Hemigrapsus sp.	Hemigrapsus	95	0.13	Juvenile,Imago	-	-	2.3	N.D.(0.58)	2.3	-
L-1	Matsukawaura	37.8210°			Arthropoda	Malacostraca	Decapoda	Portunidae	Portunus trituberculatus	Japanese blue crab	26	0.035	Juvenile	-	-	N.D.	N.D.(1.6)	N.D.(1.5)	-
L-2	Lagoon	37.8155°		2018/8/26	Mollusca	Bivalvia	Veneroida	Veneridae	Ruditapes philippinarum	Japanese littleneck	30	0.068	Imago	-	Molluscous part	2.3	N.D.(0.78)	2.3	-
L-3	Lagoon	37.8217°			Vertebrata	Osteichthyes	Scorpaeniformes	Platycephalidae	Platycephalus sp.	Flathead	10	0.0078	Immature fish	-	-	N.D.	N.D.(4.0)	N.D.(3.8)	-
				1	Vertebrata	Osteichthyes	Perciformes	Sparidae	Acanthopagrus schlegelii	Japanese black porgy	3	0.011	Immature fish	-	-	N.D.	N.D.(3.7)	N.D.(3.6)	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Acanthogobius flavimanus	Yellowfin Goby	3	0.012	Immature fish	-	-	N.D.	N.D.(3.5)	N.D.(3.4)	-
					Vertebrata	Osteichthyes	Perciformes	Mugilidae	Mugil cephalus cephalus	Flathead mullet	20	0.35	Immature fish	-	-	14.5	1.5	13	-
					Vertebrata	Osteichthyes	Beloniformes	Belonidae	Strongylura anastomella	Needlefish	1	0.24	Immature fish	Empty stomach	Viscera removed	4.7	N.D.(0.61)	4.7	-

<sup>\*1:</sup> Organisms were collected in or around the targeted water areas.

 $<sup>^{\</sup>circ}2$ : When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

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

<sup>\*4:</sup> Basically, measurement was conducted for all organism samples. Viscera (storanch 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 (40pm-mech).

<sup>\*6:</sup> River bottom materials (incl. algue) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

<sup>\*6:</sup> 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 off. N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<sup>\*8:</sup> Activity concentrations include counting errors, but the details are omitted here.