

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

<Location L off Soma City: Samples collected>

Locations	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>

Items	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	37.8210°	140.9610°	2016/10/24	-	09:45	-	16.9	Silt with sand	7.5Y3/1	None	-	-
L-2	37.8155°	140.9763°		08:13	09:22	18.4	17.3	Sand	5Y3/2	None	1.7	>1.7
L-3	37.8217°	140.9765°		08:30	09:36	18.3	18.2	Sand with silt	7.5Y3/1	None	1.5	>1.5

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

Location L-2 in Seoul City, General Survey Items: Analysis of Radioactive materials - Water																
Items	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric 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 (water)												
L-2	37.8155°	140.9763°	2016/10/24	08:13	8.1	0.8	2.2	7.8	4750	31.95	1.1	5	1.9	0.0024	0.013	0.00085
L-3	37.8217°	140.9765°		08:30	8.1	0.7	1.8	8.2	4840	31.90	1.1	3	1.8	N.D.(0.0016)	0.011	-

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 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 (sediment)							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)			
	Locations																				
L-1	37.8210°	140.9610°	2016/10/24	09:45	7.8	252	30.1	2.8	9.3	2.652	5.0	15.1	47.1	19.9	6.0	6.9	0.39	9.5	11	88	-
L-2	37.8155°	140.9763°		09:22	7.8	271	28.5	2.3	7.0	2.659	0.0	0.3	30.6	61.1	3.8	4.2	0.20	4.8	8.2	49	N.D.(0.14)
L-3	37.8217°	140.9765°		09:36	7.9	280	26.7	1.7	5.0	2.679	0.0	0.3	39.7	53.6	3.0	3.4	0.22	2.0	6.9	40	-

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>

*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.

*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.

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