

Results of Radioactive Material Monitoring of Aquatic Organisms (Location F along the Ota River)

<Location F along the Ota River: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
F-1	○	○	○	○	○	○

<Location F along the Ota River: 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)	Transparency (cm)
F-1	37.5975°	140.9252°	2020/10/27	08:55	09:10	15.1	14.3	Sand	10YR5/4	None	0.32	>50	

<Location F along the Ota River: 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)												
F-1	37.5975°	140.9252°	2020/10/27	08:55	7.3	<0.5	2.1	10.8	5.2	0.03	0.9	<1	0.9	0.0065	0.10	0.0030

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

<Location F along the Ota River: 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 (Less than 0.005mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
F-1	37.5975°	140.9252°	2020/10/27	09:10	7.3	343	21.4	1.8	2.9	2.659	2.9	7.9	69.1	14.6	2.0	3.5	0.41	4.8	28	570	0.82

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

<Location F along the Ota River: 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 (Bq/kg-wet)
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
F-1	The main stream of the Ota River	37.5975°	140.9252°	2020/10/25		Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0047	-	-	-	383	23	360	-
						Arthropoda	Insecta	Plecoptera	Perlidae	Oyamia lugubris	Oyamia lugubris	394	0.020	Larva		23	N.D.(5.8)	23	
						Arthropoda	Insecta	Plecoptera	Perlidae	Kamimura tibialis	Kamimura tibialis								
						Arthropoda	Insecta	Odonata	Cordulidae	Macromia amphigena amphigena	Macromia amphigena								
						Arthropoda	Insecta	Odonata	Cordulegastridae	Anotogaster sieboldii	Anotogaster sieboldii								
						Arthropoda	Insecta	Odonata	Gomphidae	Stylgomphus suzukii	Stylgomphus suzukii								
						Arthropoda	Insecta	Odonata	Gomphidae	Melligomphus viridicostus	Melligomphus viridicostus								
						Arthropoda	Insecta	Odonata	Gomphidae	Sieboldius albardae	Sieboldius albardae	36	0.013	Larva(Dragonfly larva)		72	N.D.(7.2)	72	
						Arthropoda	Insecta	Odonata	Gomphidae	Davidius sp.	Davidius								
						Arthropoda	Insecta	Odonata	Gomphidae	Asiagomphus melaenops	Asiagomphus melaenops								
						Arthropoda	Insecta	Odonata	Aeshnidae	Anax parthenope julius	Anax parthenope julius								
						Arthropoda	Insecta	Odonata	Aeshnidae	Boyeria macrachlani	Boyeria macrachlani								
						Arthropoda	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis								
						Arthropoda	Malacostraca	Decapoda	Atyidae	Paratya improvisa	Freshwater shrimp								
F-3	The main stream of the Ota River	37.6045°	140.9636°	2020/10/25		Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	13	0.086	Immature fish		221	11		