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

<Location F along the Ota River: Samples collected>

Items	Genera	al items		Radioactiv	e materials	
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
F-1	0	0	0	0	0	0

<Location F along the Ota River: Site measurement item>

ĺ	Items		ongitude of the	de of the 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)	Transparency (cm)
	F-1	37.5975°	140.9252°	2022/12/7	08:50	09:10	8.5	8.3	Sand	5Y4/2	None	0.20	>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	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)
F-1	37.5975°	140.9252°	2022/12/7	08:50	7.4	0.7	2.4	12.3	7.0	0.04	1.1	<1	0.7	0.0017	0.051	0.0027

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>

		, ,																			
Itome	Latitude and longitude of the		Survey date and time								Grain size distribution									1	
iciis	loca	ation		ne and time	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
Items Latitude Locations Latitude F-1 37.5975°	Latituda	Longitudo	Date	Time (astimum)		$E_{N,H,E}$				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			1 1
Locations		Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
F-1	37.5975°	140.9252°	2022/12/7	09:10	7.3	496	17.5	0.8	1.9	2,640	16.6	44.1	29.0	3.9	4.0	2.4	1.0	4.8	4.8	240	0.26

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	Note			Ra	Sr-90		
		Latitude	Longitude					*				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
					Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	363	13	350	-
					Arthropoda	Insecta	Ephemeroptera	Isonychiidae	Isonychia valida	Isonychia valida	230	0.0084	Larva	-	-	60	N.D.(8.3)	60	-
					Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera strigata	Mont mayfly	600	0.031	Larva	-	-	57	N.D.(6.7)	57	-
					Arthropoda	Insecta	Plecoptera	Perlidae	Oyamia lugubris	Oyamia lugubris	232	0.020	Larva			13	N.D.(2.1)	12	
	The main stream of				Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	232	0.020	Laiva	-	-	15	N.D.(2.1)	13	-
F-1	the Ota River	37.5975°	140.9252°	2022/12/6	Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	309	0.052	Larva	=	-	110	N.D.(4.9)	110	-
					Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	Anguilla japonica	Japanese eel	2	0.39	Mature fish	Empty stomach	Viscera removed	100.7	2.7	98	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	1	0.040	Mature fish	-	-	95	N.D.(5.3)	95	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Cyprinus carpio	Common carp	1	4.6	Mature fish	Obscure digesta	Viscera removed	184.4	4.4	180	4.6
					Coarse Particulate	-	-	-	-	Bottom fallen leaves	-	0.21	-	-	-	52	N.D.(1.7)	52	-

*1: Organisms were collected in or around the targeted water areas.

Straining were concered in or around the targeted water areas.
 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.

 $*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40 \mum-mesh).$

*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.