

OResults of Radioactive Material Monitoring of Aquatic Organisms (Location C along the Uda River)

<Location C along the Uda River: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
C-6	○	○	○	○	○	○

<Location C along the Uda 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)
C-6	37.7764°	140.8877°	2021/12/10	10:30	10:40	9.5	9.5	Sand	10YR4/4	None	0.63	>50

<Location C along the Uda 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)												
C-6	37.7764°	140.8877°	2021/12/10	10:30	7.5	0.7	3.0	12.1	9.0	0.05	1.1	5	3.4	N.D.(0.0016)	0.0086	0.00066

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

<Location C along the Uda River: General survey items/Analysis of radioactive materials Sediment>

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{SHH} (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)			

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

<Location C along the Uda 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	
C-6	The main stream of the Uda River	37.7764°	140.8877°	2021/12/5	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.0029	-	-	-	72	N.D.(11)	72	-
					Arthropoda	Insecta	Plecoptera	Perlidae	<u>Kamimuria uenoi</u>	Kamimuria uenoi Kohno	163	0.014	Larva	-	-	N.D.	N.D.(2.1)	N.D.(2.2)	-
					Arthropoda	Insecta	Plecoptera	Perlidae	<u>Oyamia lugubris</u>	Oyamia lugubris									
					Arthropoda	Insecta	Plecoptera	Perlidae	<u>Kamimuria tibialis</u>	Kamimuria tibialis									
					Arthropoda	Insecta	Plecoptera	Perlidae	<u>Paragnetina suzukii</u>	Paragnetina suzukii Okamoto									
					Arthropoda	Insecta	Plecoptera	Perlidae	<u>Neoperla sp.</u>	Neoperla	14	0.0081	Larva	-	-	N.D.	N.D.(4.5)	N.D.(3.6)	-
					Arthropoda	Insecta	Megaloptera	Corydalidae	<u>Parachauliodes sp.</u>	Parachauliodes									
					Arthropoda	Insecta	Megaloptera	Corydalidae	<u>Protohermes grandis</u>	Protohermes grandis	24	0.028	Immature fish, Mature fish	-	-	4.4	N.D.(2.5)	4.4	-
Vertebrata	Osteichthyes	Perciformes	Gobiidae	<u>Rhinogobius sp.</u>	Rhinogobius														

*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.