OResults of Radioactive Material Monitoring of Aquatic Organisms (Location E along the Niida River)

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Items	Genera	al items	Radioactive materials												
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)									
E-2 a	0	0	0	0	0	0									

<Location E along the Niida River: Site measurement item>

Items	Items Latitude and longitude of the location			Survey date and time		Water		Sedi	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)	
E-2 a	37.6640°	140.9447°	2022/12/7	12:45	13:00	8.0	8.0	Sand	10YR4/2	None	0.45	>50

<Location E along the Niida River: General survey items/Analysis of radioactive materials Water>

Items		Latitude and longitude of the Survey date and time location		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)
E-2 a	37.6640°	140.9447°	2022/12/7	12:45	7.5	<0.5	2.1	12.8	8.2	0.05	0.9	<1	1.0	N.D.(0.0016)	0.034	0.0015

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

<Location E along the Niida River: General survey items/Analysis of radioactive materials_Sediment>

Items	Latitude and longitude of the		Summer data and time								Grain size distribution										
itenis	loca	tion	Survey date 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
Locations	Latitude	Longitude	Date	Time (sediment)		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			
Locations	Latitude	Longitude	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm ³)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
E-2 a	37.6640°	140.9447°	2022/12/7	13:00	7.4	439	19.1	1.1	2.5	2.650	13.5	44.8	37.2	0.6	1.2	2.7	0.98	4.8	5.8	190	0.18

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

<Location E along the Niida River: Analysis items Aquatic organisms>

Locations	Sampling point		Latitude and longitude of the location				Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
	1 51	Latitude	Longitude	1.0			Growth stage	Stomach contents							Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)		
					Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	54	N.D.(11)	54	-		
					Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera strigata	Mont mayfly	193	0.013	Larva	-	-	120	N.D.(13)	120	-		
E-2 b	The main stream of	37.6635°	140.9452°	2022/12/4	Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	525	0.031	Larva	-	-	7.0	N.D.(1.2)	7.0	-		
	the Niida River				Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius nagoyae	Rhinogobius nagoyae	6	0.019	Mature fish	-	-	16	N.D.(2.0)	16	-		
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.22	-	-	-	42	N.D.(1.4)	42	-		

*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.