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

## <Location E along the Niida River: Samples collected>

Items	Genera	al items		Radioactiv	e 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		longitude of the ation		Survey date and time	me Water Sediment						Other		
Locations	Locations Latitude Longitude Date		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°	2021/12/10	08:40	09:00	8.7	8.7	Sand	10YR4/3	None	0.53	>50	

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

Items	Latitude and longitude of the location		Survey date an		pН	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°	2021/12/10	08:40	7.3	<0.5	3.1	12.5	6.8	0.04	1.1	5	4.2	N.D.(0.0017)	0.053	0.0012

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>

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Itame	Latitude and	ongitude of the	Survey d	ate and time										Grain si	ize distribution								
itens	location		Survey di	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		
Locations	Latitude Longitude	Date	Time (cadiment)		$E_{N.H.E}$				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 <sup>3</sup> )	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)		
E-2 a	37.6640°	140.9447°	2021/12/10	09:00	7.5	416	18.5	1.2	1.9	2.650	3.7	24.1	60.5	5.2	2.5	4.0	0.62	9.5	12	290	0.19		

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	1	Latitude and longitude of the location		Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90							
	1 31	Latitude	Longitude	Sampling date				1				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)							
					Algae/plant	1	•	-	-	Riverbed Deposits (Include algae)	-	0.0046	-	-	-	290	N.D.(22)	290	-							
				2021/12/2									Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	202	0.016	Larva	-	-	14	N.D.(4.2)	14
E-2 b	The main stream	37.6635°	140.9452°		Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	204	0.037	Larva	-	-	155.2	5.2	150	-							
E-2 0	of the Niida River	37.0033	140.9432		Arthropoda	Malacostraca	Decapoda	Varunidae	Eriocheir japonica	Japanese mitten crab	24	0.24	Juvenile	-	-	40.5	1.5	39	-							
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius nagoyae	Rhinogobius nagoyae	4	0.013	Mature fish	-	-	21	N.D.(5.5)	21	-							
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves		0.23	-	-	-	71.3	2.3	69	-							

<sup>\*1:</sup> Organisms were collected in or around the targeted water areas.

<sup>\*2:</sup> When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

<sup>\*3:</sup> For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

<sup>\*4:</sup> 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.

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

<sup>\*6:</sup> 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.

<sup>\*7:</sup> N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<sup>\*8:</sup> Activity concentrations include counting errors, but the details are omitted here.