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

<Location E along the Niida River: Samples collected>

Items	Gener	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>

Cocation D along the vital teres. She measurement near													
	Items		longitude of the ation		Survey date and time		Water		Sedi	ment		Ot	her
	Locations	Latitude Longitude		atitude 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°	2018/12/5	11:30	11:55	11.0	11.4	Silt	2.5Y3/3	Plant pieces	0.48	>50

<Location E along the Niida 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)
E-2 a	37.6640°	140.9447°	2018/12/5	11:30	7.1	<0.5	2.1	12.1	7.4	0.04	0.9	1	1.2	0.0017	0.025	0.0014

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>

	Condition Lating the Children Street, Colinian Street, Inchis Anna Street, Colinian Street,																				
Items	Latitude and longitude of the location		Survey date and time											Grain si	ze distribution						
ii.iii.i					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_{NHE}				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 (seament)		(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°	2018/12/5	11:55	7.1	375	43.4	7.1	23.5	2.607	5.0	8.9	17.7	27.5	18.1	22.8	0.14	9.5	450	5000	0.93

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>

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Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight		Note		Radioactive cesium (Bq/kg-wet)			Sr-90
		Latitude	Longitude					1				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
			140.9452°		Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.011	-	-	-	540	40	500	-
					Arthropoda	Insecta	Ephemeroptera	Isonychiidae	Isonychia valida	Isonychia valida	835	0.033	Larva	-	-	88.7	7.7	81	-
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria uenoi	Kamimuria uenoi Kohno	317				-			1	
					Arthropoda	Insecta	Plecoptera	Perlidae	Oyamia lugubris	Oyamia lugubris		0.029	Larva	-		10	N.D.(5.6)	10	
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis								10	-
E-2 b	The main stream of the Niida River			2018/12/2	Arthropoda	Insecta	Plecoptera	Perlidae	Neoperla sp.	Neoperla									
	of the Mida River				Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	373	0.075	Larva	-	-	152	12	140	-
					Mollusca	Gastropoda	Discopoda	Pleuroceridae	Semisulcospira libertina	Semisulcospira libertina	30	0.013	Imago	=	Molluscous part	21	N.D.(3.4)	21	-
					Vertebrata	Amphibia	Anura	Glandirana	Glandirana rugosa	Wrinkled Frog	1	0.011	Imago	-	-	36.2	4.2	32	-
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.17	-	-	-	81.6	6.6	75	-

^{1:} Organisms were collected in or around the targeted water area

^{*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 ($40\mu m$ -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 her