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

<Location E along the Niida River: Samples collected>

Items	General items		Radioactive materials			
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
E-2 a	○	○	○	○	○	○

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

Items	Latitude and longitude of the location		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)
E-2 a	37.6640°	140.9447°	2019/12/5	09:06	09:15	6.6	7.0	Sand	2.5Y3/2	None	0.30	>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°	2019/12/5	09:06	7.2	<0.5	1.7	11.5	6.9	0.04	0.8	4	2.3	0.0034	0.047	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 location		Survey date and time		pH	Redox potential $E_{N,H,E}$ (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm³)	Grain size distribution						Median grain diameter (mm)	Maximum grain diameter (mm)	Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
Locations	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) (%)					
E-2 a	37.6640°	140.9447°	2019/12/5	09:15	7.6	408	11.8	1.2	2.0	2.690	51.6	31.1	6.8	7.4	1.3	1.8	2.0	9.5	19	280	0.31

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		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	
E-2 b	The main stream of the Niida River	37.6635°	140.9452°	2019/12/2	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.014	-	-	-	491	31	460	-
					Arthropoda	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis	43	0.025	Larva	-	-	15	N.D.(1.2)	15	-
					Arthropoda	Malacostraca	Decapoda	Varunidae	Eriocheir japonica	Japanese mitten crab	8	0.098	Juvenile	-	-	47.2	3.2	44	-
					Vertebrata	Osteichthyes	Scorpaeniformes	Cottidae	Cottus pollux	Japanese fluvial sculpin	5	0.043	Immature fish	-	-	22	N.D.(1.6)	22	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	73	1.2	Immature fish,Mature fish	-	-	48.6	3.6	45	0.54
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius fluviatilis	Rhinogobius fluviatilis	18	0.073	Immature fish,Mature fish	-	-	32.0	2.0	30	-
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius nagoyae	Rhinogobius nagoyae									
					Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.23	-	-	-	61.3	3.3	58	-

*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.