

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

<Location C along the Uda River:Samples collected>

Locations	General items		Radioactive materials			
	Water	Sediment	Water(Cs)	Water(Sr)	Sediment(Cs)	Sediment(Sr)
C-1	○	○	○	—	○	—
C-2	○	○	○	—	○	—
C-3	○	—	○	—	—	—
C-4	○	○	○	○	○	○
C-5	○	○	○	—	○	—
C-6	○	○	○	—	○	—

<Location C along the Uda River:Site measurement item>

Locations	Survey date and time			Latitude and longitude of the location		Water		Sediment				Other	
	Date	Time(Water)	Time(Sediment)	Latitude	Longitude	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Transparency (cm)
C-1	2012/12/4	10:10	10:27	37.795333°	140.745917°	7.0	1.3	Sand gravel	2.5Y-3/2	None	Pebbles	0.3	>50
C-2	2012/12/4	9:21	9:29	37.771750°	140.729033°	7.0	7.0	Gravel mixed with sediment	2.5Y-3/1	Sediment smell	Pebbles	0.3	>50
C-3	2012/12/4	11:18	—	37.779183°	140.803967°	6.4	—	—	—	—	—	0.4	>50
C-4	2012/12/4	15:15	15:20	37.768667°	140.844283°	7.8	7.8	Sand gravel	2.5Y-3/3	None	Pebbles	0.5	15
C-5	2012/12/4	13:04	13:11	37.764600°	140.860300°	7.5	7.3	Sand	2.5Y-3/2	None	None	0.7	>50
C-6	2012/12/4	12:21	12:28	37.776383°	140.887717°	8.0	8.0	Sand	2.5Y-2/1	None	None	0.4	>50

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

Locations	Survey date and time		Latitude and longitude of the location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FTU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Date	Time	Latitude	Longitude												
C-1	2012/12/4	10:10	37.795333°	140.745917°	7.3	0.7	2.0	12.0	10.4	0.05	0.5	<1	<0.1	0.020	0.036	—
C-2	2012/12/4	9:21	37.771750°	140.729033°	7.3	0.8	3.3	10.7	9.0	0.04	1.2	4	0.2	0.048	0.079	—
C-3	2012/12/4	11:18	37.779183°	140.803967°	7.5	0.9	2.8	12.2	9.9	0.05	<1	0.1	0.1	0.066	0.11	—
C-4	2012/12/4	15:15	37.768667°	140.844283°	7.6	0.8	3.7	11.8	10.2	0.05	1.2	31	40.2	0.084	0.14	0.0011
C-5	2012/12/4	13:04	37.764600°	140.860300°	7.6	0.7	3.0	12.4	9.3	0.04	0.8	1	0.1	0.016	0.028	—
C-6	2012/12/4	12:21	37.776383°	140.887717°	7.7	0.8	2.3	12.2	9.8	0.05	0.9	<1	<0.1	0.022	0.039	—

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

Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E <sub>h</sub> (mV)	Water content (%)	IL (%)	TOC mg/g-dry	Soil particle density (g/cm <sup>3</sup> )	Grain size distribution							Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)		
	Date	Time	Latitude	Longitude							Gravel (2-75mm)	Course 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)	
											(%)	(%)	(%)	(%)	(%)	(%)						
C-1	2012/12/4	10:27	37.795333°	140.745917°	6.9	250	30.1	4.0	2.734	1	2.734	38.8	33.5	24.4	2.2	1.1	1.1	1.500	19.00	580	1,000	—
C-2	2012/12/4	9:29	37.771750°	140.729033°	6.6	159	37.0	7.0	2.669	7	2.669	25.7	17.2	13.7	4.8	15.6	23.0	0.550	19.00	180	350	—
C-4	2012/12/4	15:20	37.768667°	140.844283°	7.2	259	17.2	1.5	2.705	<1	2.705	61.1	25.0	14.4	1.0	0.5	0.5	2.800	19.00	480	860	0.90
C-5	2012/12/4	13:11	37.764600°	140.860300°	7.0	318	23.0	1.9	2.695	1	2.695	14.7	57.2	20.8	4.9	2.4	2.4	1.200	19.00	370	680	—
C-6	2012/12/4	12:28	37.776383°	140.887717°	7.2	366	28.0	2.0	2.737	1	2.737	6.0	18.9	56.0	15.4	3.7	3.7	0.490	19.00	420	730	—

< Location C along the Uda River: Analysis items Aquatic organisms >

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
C-5	2012/12/18	37.764600°	140.860300°	—	—	—	—	—	CPOM (litter)	—	0.70	33	59	—	—	—
C-6	2012/12/18	37.776383°	140.887717°	Arthropod	Insecta	Odonata	Odonata	<u>Anisogaster sieboldii</u>	Anisogaster sieboldii	109	0.025	22	39	—	Larva	—
				Arthropod	Insecta	Odonata	Odonata	<u>Calopteryx cornelia</u>	Calopteryx cornelia							
				Arthropod	Insecta	Odonata	Odonata	<u>Calopteryx sp.</u>	Calopteryx							
				Arthropod	Insecta	Odonata	Odonata	<u>Mnis castalis</u>	Mnis castalis							
				Arthropod	Insecta	Odonata	Odonata	<u>Asiagomphus melanoops</u>	Asiagomphus melanoops							
				Arthropod	Insecta	Odonata	Odonata	<u>Davidius fujiana</u>	Davidius fujiana							
				Arthropod	Insecta	Odonata	Odonata	<u>Davidius namus</u>	Davidius namus							
				Arthropod	Insecta	Odonata	Odonata	<u>Davidius sp.</u>	Davidius							
				Arthropod	Insecta	Odonata	Odonata	<u>Onychogomphus viridicostus</u>	Onychogomphus viridicostus							
				Arthropod	Insecta	Odonata	Odonata	<u>Sieboldius albardae</u>	Sieboldius albardae							
				Arthropod	Insecta	Odonata	Odonata	<u>Sinogomphus flavolimbatus</u>	Sinogomphus flavolimbatus							
				Arthropod	Insecta	Odonata	Odonata	<u>Stylogomphus suzukii</u>	Stylogomphus suzukii							
				Arthropod	Insecta	Odonata	Odonata	<u>Planaeschna milnei</u>	Planaeschna milnei							
				Arthropod	Insecta	Odonata	Odonata	<u>Planaeschna marmorata</u>	Planaeschna marmorata							
				Arthropod	Insecta	Trichoptera	Trichoptera	<u>Stenopsyche marmorata</u>	Stenopsyche marmorata							
				Arthropod	Insecta	Trichoptera	Trichoptera	<u>Parastenopsyche sauteri</u>	Parastenopsyche sauteri							
				Arthropod	Malacostraca	Decapoda	Decapoda	<u>Ayidae</u>	Freshwater shrimp							
				Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<u>Tribolodon sp.</u>	Tribolodon							
				Vertebrata	Osteichthyes	Cypriniformes	Cypriniformes	<u>Nipponocypris temminckii</u>	Dark chub							
				Vertebrata	Osteichthyes	Perciformes	Perciformes	<u>Rhinogobius sp.</u>	Rhinogobius							

Note) Underlined names in the English name column indicate species largest in number in the respective samples.