

◎ Results of Radioactive Material Monitoring of Aquatic Organisms (Location O along the Tomioka River)

<Location O along the Tomioka River: Samples collected>

Locations	Items	General items		Radioactive materials			
		Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
O-1		○	○	○	○	○	○
O-2		○	○	○	-	○	-

<Location O along the Tomioka River: Site measurement item>

Locations	Items	Latitude and longitude of the location		Survey date and time		Water	Sediment			Other		
		Latitude	Longitude	Date	Time (water)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)
O-1		37.3547°	140.9780°	2023/8/27	14:26	14:27	24.9	24.9	Sand	7.5Y5/2	None	0.50
		37.3624°	140.9612°		16:05	16:07	24.3	24.3	Sand	7.5Y4/2	Plant pieces	0.20

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

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity (‰)	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
		Latitude	Longitude	Date	Time (water)												
O-1		37.3547°	140.9780°	2023/8/27	14:26	7.3	0.7	2.1	7.8	10.8	0.06	0.9	2	0.9	N.D.(0.0015)	0.017	0.0030
		37.3624°	140.9612°		16:05	7.4	0.7	2.1	8.1	9.9	0.05	0.9	2	1.4	N.D.(0.0015)	0.022	-

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

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

Locations	Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E <sub>NHE</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)	
		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) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
O-1		37.3547°	140.9780°	2023/8/27	14:27	7.5	475	19.4	1.6	2.2	2.660	30.4	20.3	36.4	4.5	3.9	4.5	0.86	19	7.3	330	0.21
O-2		37.3624°	140.9612°		16:07	7.3	219	35.1	5.5	8.1	2.640	2.1	1.1	20.0	52.9	13.8	10.1	0.14	9.5	18	810	-

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

<Location O along the Tomioka 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		
O-1	The main stream of the Tomioka River	37.3547°	140.9780°	2023/8/27	Algae/plant	-	-	-	-	Sediment deposited on riverbed (Including algae)	-	0.0052	-	-	-	-	97	N.D.(23)	97	-
					Arthropoda	Insecta	Trichoptera	Stenoplectidae	<i>Stenopsyche marmorata</i>	Caddisfly	68	0.013	Larva	-	-	-	100	N.D.(12)	100	-
					Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	Dragonfly	148	0.018	Larva (Dragonfly larva)	-	-	7.1	N.D.(1.5)	7.1	-	
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylogomphus suzukii</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Melligonophus viridicostus</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albidae</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Sinogomphus flavolimbatus</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanaops</i>	Dragonfly										
					Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria macchianii</i>	Jumbo dragonfly										
					Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	Dobsonfly	36	0.020	Larva	-	-	5.8	N.D.(1.8)	5.8	-	

\*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.