

○Results of Radioactive Material Monitoring of Aquatic Organisms (Location F along the Ota River)

<Location F along the Ota River: Samples collected>

Items	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
F-1	○	○	○	○	○	○

<Location F along the Ota River: Site measurement item>

Items	Latitude and longitude of the location		Survey date and time			Water	Sediment			Other		
	Latitude	Longitude	Date	Time (water)	Time (sediment)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)
F-1	37.5975°	140.9252°	2022/6/16	08:55	09:15	15.1	15.3	Sand	5Y4/2	None	0.45	>50

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

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 (mg/L)	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)												
F-1	37.5975°	140.9252°	2022/6/16	08:55	7.3	<0.5	2.7	10.4	4.9	0.03	1.1	2	1.0	0.0019	0.063	0.0038

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

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

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NH4Cl} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	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) (Less than 0.005mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
F-1	37.5975°	140.9252°	2022/6/16	09:15	7.1	479	19.5	1.4	1.9	2.650	6.4	17.7	44.4	18.7	6.9	5.9	0.44	9.5	11	390	0.54

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

<Location F along the Ota 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)			
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
F-1	The main stream of the Ota River	37.5975°	140.9252°	2022/6/16		Algae/plant	-	-	-	Riverbed Deposits (Include algae)	-	0.0052	-	-	-	550	N.D.(28)	550	-
						Arthropoda	Insecta	Ephemeroptera	Isonychiidae	<i>Isonychia valida</i>	<i>Isonychia valida</i>	314	0.023	Larva	-	120	N.D.(6.9)	120	-
						Arthropoda	Insecta	Ephemeroptera	Siphlonuridae	<i>Siphlonuridae sp.</i>	<i>Siphlonuridae</i>								
						Arthropoda	Insecta	Ephemeroptera	Ephemeridae	<i>Ephemerella strigata</i>	<i>Mont mayfly</i>								
						Arthropoda	Insecta	Trichoptera	Stenopsychidae	<i>Stenopsyche marmorata</i>	<i>Stenopsyche marmorata</i>								
						Arthropoda	Insecta	Odonata	Corduliidae	<i>Macromia amphigena amphigena</i>	<i>Macromia amphigena amphigena</i>								
						Arthropoda	Insecta	Odonata	Cordulegastridae	<i>Anotogaster sieboldii</i>	<i>Anotogaster sieboldii</i>								
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Stylgomphus suzukii</i>	<i>Stylgomphus suzukii</i>								
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Mellingtonius viridicostus</i>	<i>Mellingtonius viridicostus</i>								
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Sieboldius albardae</i>	<i>Sieboldius albardae</i>								
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Davidius sp.</i>	<i>Davidius</i>								
						Arthropoda	Insecta	Odonata	Gomphidae	<i>Asiagomphus melanops</i>	<i>Asiagomphus melanops</i>	56	0.018	Larva (Dragonfly larva)	-	35	N.D.(6.1)	35	-
						Arthropoda	Insecta	Odonata	Libellulidae	<i>Sympetrum sp.</i>	<i>Sympetrum</i>								
						Arthropoda	Insecta	Odonata	Libellulidae	<i>Orthetrum melania</i>	<i>Orthetrum melania</i>								
						Arthropoda	Insecta	Odonata	Libellulidae	<i>Lyriothemis pachygastera</i>	<i>Lyriothemis pachygastera</i>								
						Arthropoda	Insecta	Odonata	Aeshnidae	<i>Boyeria macclachlani</i>	<i>Boyeria macclachlani</i>								
						Arthropoda	Insecta	Odonata	Aeshnidae	<i>Planaeschna milnei milnei</i>	<i>Planaeschna milnei milnei</i>								
						Arthropoda	Insecta	Megaloptera	Corydalidae	<i>Protohermes grandis</i>	<i>Protohermes grandis</i>								
						Arthropoda	Malacostraca	Decapoda	Palaemonidae	<i>Palaemon paucidens</i>	<i>Common prawn</i>								
						Arthropoda	Malacostraca	Decapoda	Atyidae	<i>Paratya improvisa</i>	<i>Freshwater shrimp</i>								
						Arthropoda	Malacostraca	Decapoda	Varunidae	<i>Eriocheir japonica</i>	<i>Japanese mittens crab</i>								
F-5	The main stream of the Ota River	37.6022°	140.9868°	2022/6/20		Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<i>Japanese eel</i>	1	0.13	Immature fish	Empty stomach	143.6	3.6	140	-
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Tribolodon hakonensis</i>	<i>Japanese dace</i>								
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Opsariichthys platypus</i>	<i>Pale chub</i>								
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Candidia temminckii</i>	<i>Dark chub</i>								
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	<i>Common carp</i>								
						Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Cobitis biwae</i>	<i>Cobitis biwae</i>								
						Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	<i>Lefua echigonia</i>	<i>Lefua echigonia</i>								
						Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius fluviatilis</i>	<i>Rhinogobius fluviatilis</i>	7	0.030	Immature fish, Mature fish	-	69	N.D.(11)	69	-
						Vertebrata	Osteichthyes	Perciformes	Gobiidae	<i>Rhinogobius nagoyae</i>	<i>Rhinogobius nagoyae</i>								
						Vertebrata	Cephalaspidomorphi	Petromyzontiformes	Petromyzontidae	<i>Lethenteron reissneri</i>	<i>Far eastern brook lamprey</i>	8	0.017	Ammocoetes (larva)	-	5.9	N.D.(2.9)	5.9	-
						Vertebrata	Amphibia	Anura	-	-	Frog	42	0.016	Larva(Tadpole)	-	270	N.D.(13)	270	-
F-5	The main stream of the Ota River	37.6022°	140.9868°	2022/6/20		Coarse Particulate Organic Matter	-	-	-	-	Bottom fallen leaves	-	0.25	-	-	60	N.D.(1.5)	60	-
						Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	<i>Anguilla japonica</i>	<i>Japanese eel</i>	2	0.049	Immature fish	Stenopsyche marmorata	4.5	N.D.(1.2)	4.5	-
						Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	<i>Common carp</i>	1	2.6	Mature fish	Obscure digesta	50.8	1.8	49	1.7