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

<Location F along the Ota River: Samples collected>

Items / Locations	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 / Locations	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)	Transparency (cm)
F-1	37.5975°	140.9252°	2017/12/6	11:16	11:32	8.6	8.6	Sand	2.5Y4/4	None	0.47	>50

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

Items / Locations	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)												
F-1	37.5975°	140.9252°	2017/12/6	11:16	7.4	<0.5	2.1	12.6	4.9	0.03	0.9	<1	0.7	0.022	0.17	0.0034

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 / Locations	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/cm^3)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
											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)			
	Latitude	Longitude	Date	Time (sediment)																	
F-1	37.5975°	140.9252°	2017/12/6	11:32	7.4	369	19.8	1.0	1.3	2.619	12.1	32.2	47.8	5.8	1.3	0.8	0.75	19	180	1500	0.63

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)			Sr-90
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
F-1	The main stream of the Ota River	37.5975°	140.9252°	2017/12/6	Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.026	-	-	-	1220	120	1100	-
					Algae/plant	Monocotyledoneae	Poales	Poaceae	*Phragmites australis*	Common reed	-	0.16	-	-	-	76.6	9.6	67	-
					Arthropoda	Insecta	Ephemeroptera	Isonychiidae	*Isonychia japonica*	Isonychia japonica	366	0.016	Larva	-	-	283	33	250	-
					Arthropoda	Insecta	Ephemeroptera	Ephemeridae	*Ephemera strigata*	Mont mayfly	149	0.0042	Larva	-	-	611	61	550	-
					Arthropoda	Insecta	Trichoptera	Stenopsychidae	*Stenopsyche marmorata*	Stenopsyche marmorata	50	0.0045	Larva	-	-	722	82	640	-
					Arthropoda	Insecta	Megaloptera	Corydalidae	*Protohermes grandis*	Protohermes grandis	8	0.0036	Larva	-	-	148	18	130	-
					Arthropoda	Insecta	Megaloptera	Corydalidae	*Parachauliodes japonicus*	Parachauliodes japonicus									
					Arthropoda	Malacostraca	Decapoda	Palaemonidae	*Palaemon paucidens*	Common prawn	16	0.025	Imago	-	-	368	48	320	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Tribolodon hakonensis*	Japanese dace	11	0.035	Immature fish	-	-	368	38	330	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	*Cyprinus carpio*	Common carp	1	4.8	Mature fish	Obscure digesta	Viscera removed	471	51	420	4.2
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	*Rhinogobius fluviatilis*	Rhinogobius fluviatilis	3	0.0074	Mature fish	-	-	314	34	280	-
					Vertebrata	Amphibia	Anura	Ranidae	*Rana catesbeiana*	American Bullfrog	3	0.55	Imago	-	-	103.6	8.6	95	-
					Vertebrata	Amphibia	Anura	Ranidae	*Rana ornativentris*	Montane brown frog									
F-5	The main stream of the Ota River	37.6022°	140.9868°	2017/12/6	Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	*Anguilla japonica*	Japanese eel	5	0.48	Immature fish	Freshwater shrimp,Fish,Plant pieces	Viscera removed	121	11	110	-
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	*Oncorhynchus masou*	Yamame trout	1	0.052	Immature fish	Chironomus(Pupa stage)	Viscera removed	12.5	1.5	11	-
					Vertebrata	Amphibia	Anura	Ranidae	*Rana catesbeiana*	American Bullfrog	1	0.062	Imago	-	-	54.1	5.1	49	-

*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.